

Stereo Review® Presents

Display until March 30, 1989 \$3.95

# STEREO

## BUYERS' GUIDE 1989

**MORE THAN 3,000 HI-FI COMPONENTS**

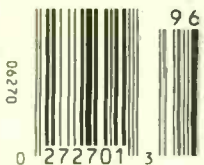
**How To Set A System Budget**

**Tape Recording Systems**

**Features, Specs, And Prices Of  
Receivers, Speakers, CD  
Players, Tape Decks, And More**



YAMAHA





SDA SRS 2.3  
\$1099.95 ea.



# The Polk Revolution Continues!

*"Polk reinvents the loudspeaker"*

*High Fidelity Magazine*

**N**early six years ago the audio world was stunned by Matthew Polk's introduction of revolutionary SDA technology. While other designers had been concentrating on small refinements to existing loudspeaker technology, Matthew Polk opened the door to new frontiers of exciting realism in sound.

True Stereo SDA technology maintains stereo separation all the way to your ears, something which no conventional speaker can achieve. Conventional speakers make it sound like the musicians are trapped in the speaker boxes or in the small space between them. Polk's patented SDA speakers fill the entire width of your listening room with sonic images so breathtakingly real that it's just like having the musicians in the room with you. They must be experienced to be believed!

## *Introducing the SDA SRS 2.3*

Introduced two years ago, the flagship SDA Signature Reference System (SDA SRS) is the ultimate expression of loudspeaker technology. A two-time winner of the prestigious Audio Video Grand Prix Award, the SDA SRS was recently chosen by the editors of Stereo Review magazine for their ultimate dream system.

Now being introduced, the SDA SRS 2.3 offers all of the benefits of third generation SDA technology in a slightly more modest package. It is the perfect speaker for those listeners who demand the best and most exciting listening experience but who cannot accommodate the larger SDA SRS.

Words can never fully express the thrilling experience of listening to the new SDA SRS 2.3. Effortless reproduction at live concert levels, distortion free, body-tingling bass and room-filling stereo imaging are executed so flawlessly that when you close your eyes you'll forget that you are listening to speakers at all. Visit your local Polk dealer and experience them for yourself.



Matthew Polk's award winning SDA SRS 1.2 and the SDA SRS 2.3.

**polk audio**  
The Speaker Specialists®

5601 Metro Drive, Baltimore, Md. 21215

CIRCLE NO. 90 ON READER SERVICE CARD

Ascend to new heights of musical experience.



Every audio component we engineer is a work of art in its own right. Each one has the integrity of design and technological virtuosity for which we are known.

Combined, these components create harmony and radiance, forming a unique synergy, a perfect match. The ideal system.

From the ultimate to the entry level, Nakamichi audio products are designed to produce one thing: the reverie of musical flight.

After all, we know that nothing can make the spirit soar like music.



Presenting our newest receiver, the TA-1A: A milestone product that marks the availability of our first entry-level system, putting *The Sound of Nakamichi* within the reach of every music lover.

Combine the TA-1A Tuner Amplifier with our OMS-1A Compact Disc Player and CR-1A Cassette Deck and behold a sound so rich, yet so affordable, that the quality and value will startle you.

 **Nakamichi**

For the name of your nearest authorized Nakamichi home audio or mobile sound dealer, please call or write:

Nakamichi America Corporation  
19701 South Vermont Ave.  
Torrance, CA 90502 (800) 421-2313  
(800) 223-1521 (California)  
Nakamichi Canada (800) 663-6358



# STEREO

## BUYERS' GUIDE 1989



### FEATURES

- Sound Finance ..... 4  
*By Michael Smolen*
- Tape Systems ..... 16  
*By Michael Smolen & William Wolfe*

### PRODUCT LISTINGS

Receivers .....	31
Power Amplifiers .....	45
Preamplifiers .....	64
Integrated Amplifiers .....	76
Tuners .....	82
Compact Disc Players .....	90
Cassette Decks .....	109
Open-Reel Tape Decks .....	118
Turntables .....	119
Cartridges & Tonearms .....	124
Speakers .....	132
Headphones .....	171
Signal Processors .....	178
Accessories .....	185
Pocket Stereo .....	202
Blank Tape .....	206
Audio Glossary .....	209
Directory of Manufacturers .....	217



Cover components (clockwise from top right):  
 Kenwood KR-V127R A/V receiver  
 (listing on page 32);  
 Nakamichi CR-3A cassette deck  
 (listing on page 112);  
 Conrad-Johnson Sonographe SD-1 CD player  
 (listing on page 102);  
 Precise Monitor 7 speaker (listing on page 163);  
 Technics SL-1200MKII turntable (listing on page  
 122); Yamaha NS-1 speaker (listing on page 170).

### Stereo Review®'s STEREO BUYERS' GUIDE 1989

WILLIAM WOLFE	Editor
LOREN FALLS	Art Director
BOB ANKOSKO,	Senior Editors
WILLIAM GOLDMAN	
LAURA KELLY	Associate Editor
MARK LAZARUS	Editorial Assistant
JERRY TAN	Database Coordinator
BARBARA AIKEN	Project Coordinator
LOUISE BOUNDAS	Editorial Director
MICHAEL SMOLEN	Executive Director
WINSTON A. JOHNSON	Vice President and Publisher

### ADVERTISING

Advertising Director: Nick Matarazzo  
 212-719-6035  
 National Sales Manager: Charles L. P. Watson  
 212-719-6038  
 Consulting Director: Richard J. Halpern  
 212-719-6025  
 Account Manager: Sharon Dube  
 212-719-6037  
 Assistant to the Publisher: Nadine L. Goody  
 Classified Advertising: 800-445-6066

Midwestern Managers: Arnold S. Hoffman,  
 Jeffrey M. Plaster 312-679-1100

Western Managers: Bob Meth, Paula Borgida  
 213-739-5130

Tokyo Office: Iwai Trading Co., Ltd.  
 603 Ginza Sky Heights Building, 18-13,  
 Ginza 7-Chome, Chuo-Ku, Tokyo, Japan 104  
 Japan Representative: J.S. Yagi  
 Telephone: 03-545-3908

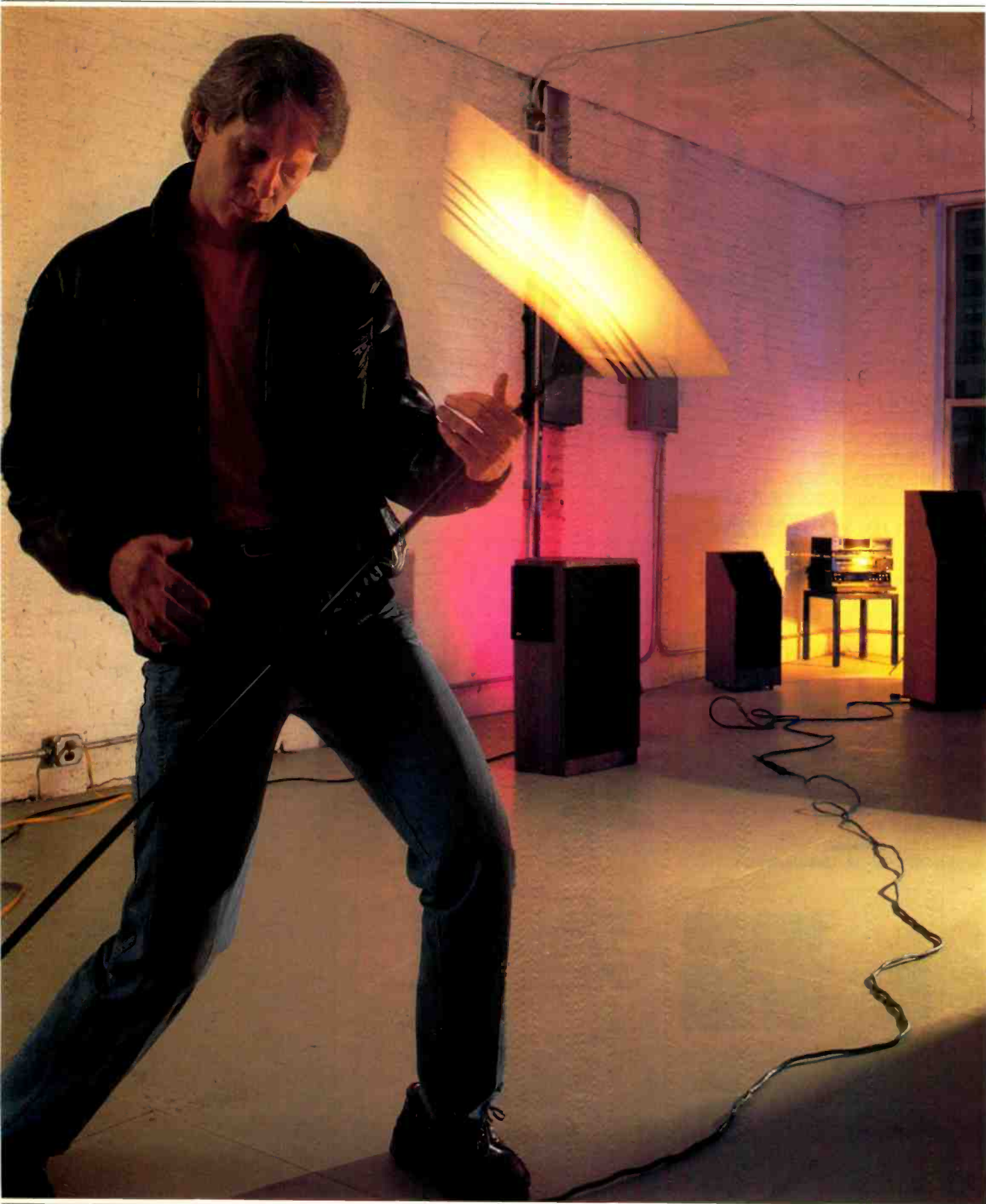
Production Director: Karen L. Rosen  
 Production Manager: Barbara Ross

STEREO REVIEW PRESENTS IS PUBLISHED  
 BY DIAMANDIS COMMUNICATIONS INC.,  
 a wholly-owned subsidiary of  
 Hachette Publications, Inc.  
 President and CEO: Peter G. Diamandis  
 Executive Vice President: Robert F. Spillane  
 Senior Vice President, Finance, and CFO:  
 Arthur Sukel  
 Senior Vice President, Manufacturing & Distribu-  
 tion: Murray Romer  
 Senior Vice President, Operations & Administra-  
 tion: Robert J. Granata  
 Vice President, Controller: David Pecker  
 Vice President, General Counsel:  
 Catherine Flickinger

Vice President, Circulation, Leon Rosenfeld; Vice  
 President, Communications, Phyllis Crawley;  
 Vice President, Marketing, Anthony F. Incaltera;  
 Vice President, Research, Bruce Gershfield;  
 Senior Vice President, Sales, James A. Frahm.

Stereo Review Presents is published four times a  
 year by Diamandis Communications Inc., a whol-  
 ly-owned subsidiary of Hachette Publications Inc.,  
 1515 Broadway, New York, NY 10036.  
 COPYRIGHT 1988 BY DIAMANDIS PUBLI-  
 CATIONS INC. ALL RIGHTS RESERVED.

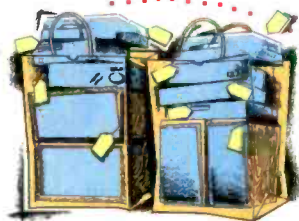
PERMISSIONS: Material in this publication may  
 not be reproduced in any form without permis-  
 sion. Requests for permission should be directed  
 to Charles J. Lillis, Product Merchandising, Dia-  
 mandis Communications Inc., 1515 Broadway,  
 New York, NY 10036.





# SOUND FINANCE

Budgeting before you buy can increase the fun of shopping for a new stereo system.



BY MICHAEL SMOLEN

**H**I-FI equipment can bring a great deal of pleasure into your life. It may tempt some record collectors to play air guitar, do Elvis impersonations, or conduct phantom symphony orchestras in their listening rooms, but the majority of record collectors prefer to sit quietly and listen less athletically.

Today's advanced technology—such as the compact disc system, the laser videodisc, surround sound, and digital signal processing—make this a particularly exciting moment to be in the market for new components. If you are ready to buy a whole new stereo system—even with limited funds—you can have a very good time shopping.

Selecting new components calls for the same kind of care you'd devote to buying a new house or car. If you have a job as a bank teller (or a magazine writer), you wouldn't be shopping for a ten-bedroom, twenty-acre estate in the country, but you could probably handle a very nice condo on the city's perimeter. Similarly, just because you have only \$500 to spend on a stereo system doesn't mean you can't achieve good sound in your apartment's living room.

A stereo system means different things to different people. To some it can be as simple as a good Walk-

man-type portable cassette player with a pair of external speakers (price: about \$225). To others it can mean separate components so large, complex, and powerful that to house them you'd need an extra wing on your mansion (price: if you have to ask, you can't afford it).

## *Advance Preparation*

Well, what *can* you afford? What equipment do you actually need? How much should you spend on which parts of it? Finding answers to those questions requires some instructive and pleasing homework. And the first thing you have to do has nothing to do with budgeting. It has to do with listening.

Before you can buy any kind of hi-fi system, you ought to know what music *should* sound like, and the only way to do that is to go out and listen to live performances. Go to concerts and make mental notes of what makes music sound good—the impact of sharp transients, the contrast of soft and loud passages, the wide range of frequencies, and the absence of recorded noises. Try to remember what real music sounds like so you can select a system that comes as close to that ideal as possible.

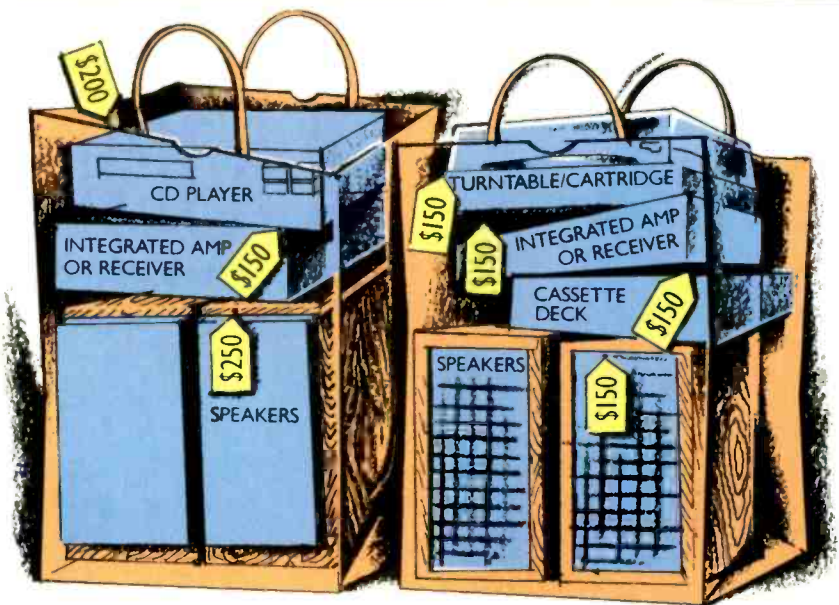
Also, listen to high-quality sound systems at the homes of friends or in upscale audio showrooms. This

PHOTOGRAPHS BY BARNABY HALL



## \$600 SYSTEM FOR BETTER SOUND

## \$600 ALL-PURPOSE SYSTEM



ILLUSTRATIONS BY MARK FALLS

will give you a good idea of what good reproduction can sound like, and while you may not be able to afford such a "reference" system, it will set a standard, a goal to aim for in the future.

The next thing you must consider is *where* you'll be listening to your stereo system. Large speakers may impress you in the showroom with bass you can feel as much as hear, but if you live in a thin-walled apartment next to someone with a pacemaker, you'll never hear that bass at home. The size of your listening room is also important because it must contain the equipment you buy and is the space you want to fill with sound. Large rooms require more amplifier power or more efficient speakers for reproduced music to be as loud as in small rooms.

Because different materials reflect or absorb sound differently, the decor of your listening room will influence the sound your system produces. A room with heavy drapes, overstuffed furniture, and plush carpeting will absorb sound. A powerful receiver and careful speaker placement (*not* behind the couch) might be required for acceptable sound reproduction in such an acoustically "dead" room. A room that is acoustically "live"—with hardwood floors, bare walls, and a lot of chrome and glass furniture—will reflect sound waves and won't require as much power or as effi-

cient speakers as a dead room. Exactly where you intend to place the speakers should be considered before shopping since placement affects overall tonal balance and perceived stereo imaging, not to mention the appearance of the room.

The last thing you need to do before figuring your hi-fi budget is to decide what your main sound source will be. For example, if you plan to buy nothing but CD's for the rest of your life, there's no need to spend money on a turntable. Instead, you may want to apply that money toward an amplifier or receiver with a good dynamic-headroom rating, to cope with the expanded dynamic range of compact discs, and better speakers, to handle a CD's extended frequency response and powerful transients. And if you never listen to the radio, you certainly shouldn't buy a receiver. Instead, look at integrated amps.

You can build a single-sound-source system (integrated amplifier, turntable, and speakers) for as low as about \$300, or you can go all out with a multisource component system costing up to \$100,000 or even more. Follow the preshopping recommendations above, read magazine test reports, and study buying guides such as *STEREO REVIEW's Stereo Buyers' Guide* or *Compact Disc Buyers' Guide*. They will show you the wide selection of components in *every* price range and help you to narrow down your choices.

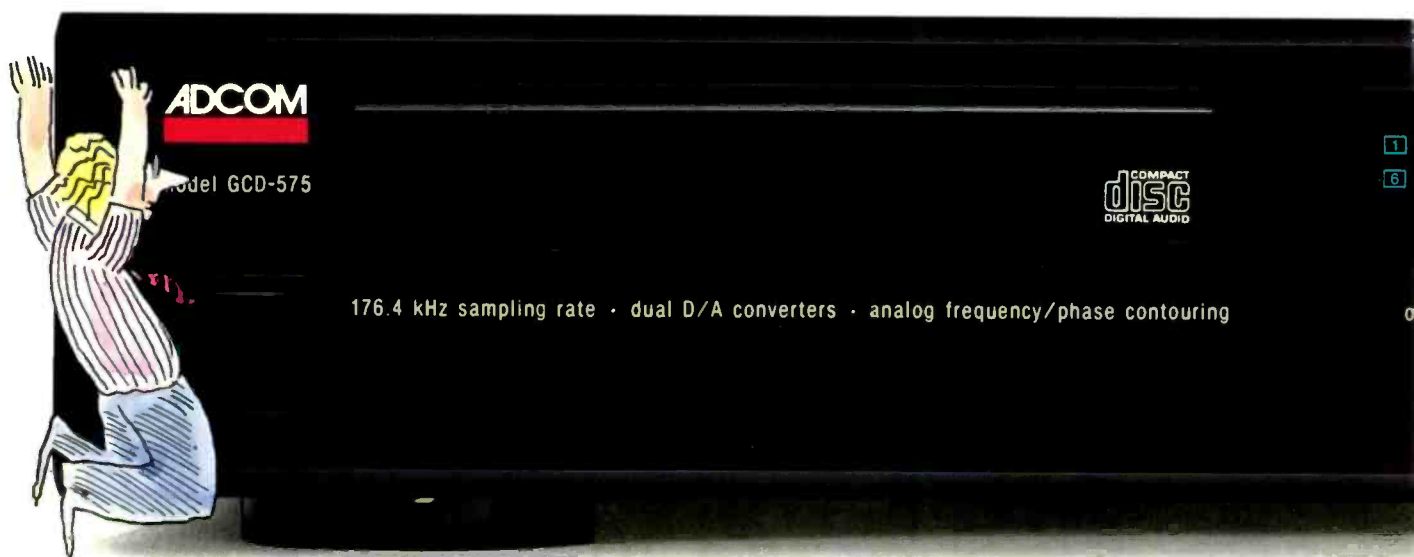
All amounts given are based on manufacturers' suggested list prices.



All good things come to those who wait.



# Finally. A that reproduces not just bits a



**A**dcom's new GCD-575 Compact Disc Player has been worth waiting for. Now there's a CD player with analog audio circuits as technically advanced as its digital stages.

Since the human ear can only appreciate musical sounds in their analog format, Adcom began with the objective of producing the first affordable CD player whose direct-coupled audio output would deliver the long anticipated technical benefits of digital sound.

## Class "A" Makes A Difference

Designers and engineers usually use Class "A" audio circuits where price is no object. In its purest form, Class "A" offers a highly sophisticated level of audio amplification, often demanded by those who can distinguish outstanding sonic performance from the merely average. Adcom's GCD-575 employs a no-compromise, Class "A" analog audio amplifier section which provides superior resolution by more clearly defining low-level information.



# CD player all of the music, and bytes of it.



This higher resolution makes an audibly dramatic difference in the musicality of CD reproduction. To achieve this result, the analog audio circuits in the GCD-575 were based on the same proprietary high speed linear amplifiers used in Adcom's GFP-555 preamplifier, universally recognized for its outstanding musical integrity.

No other CD player at any price uses these superb audio components.

### Digital Sound At Its Best

Adcom's selectable analog frequency/phase contour circuit enhances the musicality of CD's which have been poorly mixed, or digitally over equalized. Subtly contoured by the AFPC, many of these CDs become more listenable, with much of the fatiguing harshness and "glare" reduced. In addition, the stereo image and sound stage becomes more focused allowing for a more natural sonic presentation.

*(Over please)*

# The Adcom GCD-575

## Details You Can Hear

Importantly, Adcom's CD player is designed with a low output impedance (100 Ohms) so that it can operate up to its maximum capability with a wide variety of associated equipment. It is not only compatible with virtually all input stages of amplifiers, preamplifiers, tuner/preamplifiers, etc., but also permits the use of longer interconnecting audio cables, when required, with minimal signal deterioration.

Additionally the GCD-575 is supplied with a high quality, low-loss audio cable to prevent the sonic smear that conventional audio cables tend to cause. The use of this special cable and the 100 Ohm output impedance permits the GCD-575 to be used with Adcom's SLC-505 passive straight line controller. If no other source equipment will be used, the variable output (front panel controlled) can be used directly into your power amplifier, bypassing the preamplifier circuits normally required by other CD players.

A multi-winding power transformer, connected to three separate tightly regulated power supplies for the audio, digital and display circuitry, insures isolation of the different functions and optimal operation of each without interference.

The four special heavy feet installed on the GCD-575 are reversible metal castings. On one side, the flat surface insures a wide contact area. The reverse side is cast with built-in "Iso-points" which, when used in a three-foot configuration, operates as a "tripod" support system.

A special polarity-inverting switch permits you to reverse the normal positive polarity to negative (inverted) polarity. This corrects playback of CDs in which the polarity was incorrectly recorded (inverted), or for use in systems in which one of the components causes a reversal of correct polarity.



Full Function Remote Control

## Specifications

**Frequency Response:** 5Hz - 20kHz,  
+0.1, -0.5dB

**Signal-to-noise Ratio:** 105dB

**Dynamic Range:** 98dB

**THD:** 0.0025%

**IMD (70Hz difference):** @ 5kHz  
0.00018%

**Channel Separation (1kHz):** 95dB

**Interchannel Phase Shift:**  
@ 20kHz Less than 1.8°

**Output Impedance:** Fixed 100Ω/  
Variable 100Ω/Digital 75Ω

**Output Level:** Fixed 2.5V RMS  
Variable Greater Than 4.5V RMS  
Digital 0.5V peak-to-peak

**Sampling Rate:** 176.4kHz

**Quantized Bits:** 16-bit linear

**Power:** 120VAC/60Hz  
(Available in 220/240V, 50Hz)

**Dimensions:** 17" (430mm)W ×  
11-1/4" (285mm)D ×  
3-7/16" (87mm)H

**Weight:** 12 lbs. (5.5 kg.)

**Optional:** Model RM-3 rack mount  
adaptors. Available with white front  
panel.

*Specifications subject to change  
without notice.*

## More Features For Better Value

Other features include a full function remote-control system with random access track capability; low group-delay digital and analog filters; triple-beam laser format; a direct digital output; playback of 3-inch discs without an adaptor; and a very-high-quality headphone output.

The GCD-575's advanced facilities include:

- Programming of up to 24 tracks
- Programming of any phrase
- Audible fast forward and reverse
- Adjustable introscan
- Auto space

Display functions include:

- Elapsed time on track or disc
- Time remaining on track or disc
- Programmed tracks
- Track being played
- Number of tracks up to 20

## Why Should You Listen To Us?

Over the years, Adcom has earned a reputation for delivering superb performance at a modest price. The GCD-575 keeps faith with this tradition.

Once again, Adcom clears an innovative path through the jungle of confusing claims about "digital" sound, and provides a logical and direct path to musical purity.

If you've been waiting for a CD player which faithfully reproduces all of the music, not just bits and bytes of it, you'll want to visit your nearest authorized Adcom dealer right now... because while it may be true that all good things come to those who wait, you've waited long enough for a CD player this good.

**ADCOM**<sup>®</sup>  
fine stereo components

11 Elkins Road, East Brunswick, NJ 08816  
U.S.A. (201) 390-1130

Distributed in Canada by PRO ACOUSTICS INC.  
Pointe Claire, Quebec H9R 4X5

CIRCLE NO. 61 ON READER SERVICE CARD



## Budget Systems

There are two ways to approach the budget system—as a single-source system or as an all-purpose system. Let's say you have \$500 to \$600 to buy a single-source system (all amounts are based on manufacturers' suggested retail prices) and you've determined that CD's are going to be your source. One way to budget this system would be \$150 for an integrated amplifier, \$200 for a CD player, and \$150 for speakers. The positive aspects of this type of system far outweigh the negative ones. While \$150 is not a lot to spend on a pair of loudspeakers, you'll be amazed at how good a CD player can make inexpensive speakers sound. Also, while \$150 will probably buy a maximum of around 35 watts of power, speakers at that price are generally very efficient.

With \$600 you could shoot for a more general-purpose system—spending, for example, \$150 for a receiver or integrated amplifier, \$150 for loudspeakers, \$150 for a cassette deck or CD player, \$100 for a turntable, and \$50 for a phono cartridge. For better sound you might try \$150 for an integrated amp or receiver, \$250 for speakers, and either \$200 for a CD player or \$150 for a turntable and \$50 for a phono cartridge.

It's not hard to see that shifting

around \$25 here and there can create quite a different system. There is one guideline, however, that applies equally to the budget-priced system and the extravagant component system. *Always spend as much money as you possibly can on the speakers*, as these are what you're going to be listening to all of the time. While it's practically impossible to hear the difference between a half-dozen \$150 receivers, you can hear the difference between six different loudspeakers in the same price range.

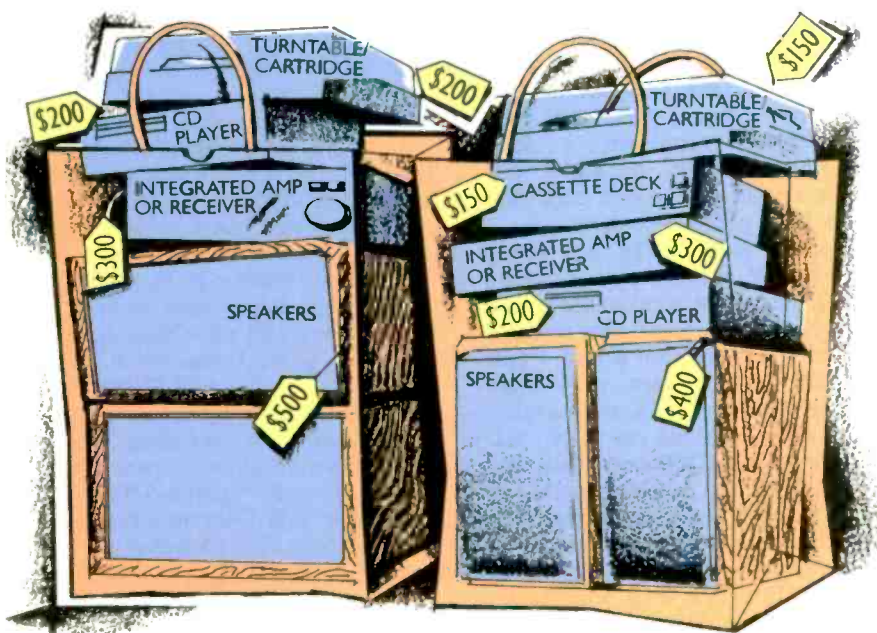
## The Vast Middle Range

Truly excellent sound becomes a reality in the \$800 to \$1,500 range. With this kind of budget, there is little reason to limit yourself to a single-source system, and you'll be able to consider better amplification systems and such "extras" as equalizers (\$60 to \$1,500) and surround-sound decoders (\$150 to \$849). Remember, though, that with some surround-sound decoders you'll need a second amplifier for the rear channel, as well as extra speakers.

In the \$800 to \$1,200 range a "basic" system budget might be divided into \$400 for speakers, \$300 for a receiver or integrated amplifier, and \$300 dollars for either a CD player or a turntable and cartridge. An all-purpose system could contain a \$300 receiver or integrated ampli-

\$1,200 SYSTEM FOR BETTER SOUND

\$1,200 ALL-PURPOSE SYSTEM







\$2,500 SYSTEM FOR BETTER SOUND

\$2,500 ALL-PURPOSE SYSTEM



fier, a \$350 pair of speakers, a \$200 CD player, a \$175 turntable/cartridge combination, and a \$175 cassette deck.

For better sound with a minimum of two sound sources, the \$1,000 to \$1,500 range allows you to explore the possibilities of separates—a power amplifier and a preamplifier instead of an integrated amplifier or receiver. One system might consist of a \$300 amplifier, a \$300 preamplifier, a \$200 CD player, a \$200 turntable/cartridge combination, and a \$500 pair of loudspeakers. If you like the idea of separates and must have a tuner, you might try a \$300 power amplifier, a \$500 preamplifier/tuner, a \$200 CD player or turntable and cartridge, and a \$500 pair of speakers.

If you're a video fan and would like an A/V system with surround sound, you might want to try a \$500 A/V receiver or integrated amplifier with built-in surround sound, a pair of \$400 speakers for your front channel, a pair of \$100 speakers for your rear channel, a \$300 CD player, and a \$200 turntable and cartridge. This system could be made complete by changing to a \$200 CD player and a \$150 turntable/cartridge combination, using the remaining \$150 in your audio budget for a cassette deck, and

adding a \$550 color monitor with MTS and \$700 for a hi-fi VCR.

Again, in the \$800 to \$1,500 price range, you will want to spend as much as possible on your loudspeakers. But with the flexibility of more money to spend, you will want to concentrate on better power sources to bring out the best from your speaker system. More money will also enable you to tailor your hi-fi system to the types of signal sources you prefer and to afford the essential extras for "tweaking" the system for superior reproduction.

*The High End*

Although you could easily spend \$100,000 and up on a stereo system, for the sake of reality we will consider the high-end range to fall somewhere between \$1,500 and \$5,000. Here's your chance to buy a really fantastic speaker system, a sophisticated power and switching system, and the signal sources of your choice. If you can spend \$2,500, say, you should probably spend around \$1,000 on your speakers, about \$800 on an amplifier, a preamplifier, and a tuner, maybe \$300 on a CD player, and \$200 on a turntable and cartridge. By spending a little less on the speakers and separates, you could easily work in a good three-head cassette deck.



If you're able to go for the full \$5,000, sit yourself down in the high-end room of a reputable audio salon and listen to speakers costing between \$1,000 and \$2,000 a pair. When you find something you like, buy it; you'll still have \$3,000 left for the rest of the system!

As a member of the high-end school, you'll also have the opportunity to purchase some of the myriad accessories available for keeping both your equipment and your recordings in optimum playing condition. Examples include all kinds of noise-reduction systems, electronic stylus cleaners, full-system remote controls, turntable and CD player isolation systems, high-performance speaker and patch cables, record vacuums, special contact-enhancement formulas, program-route selectors, demagnetizing systems, special headshells, super antennas, cooling systems, and every possible cleaning and polishing formula ever conceived.

### *This System's for You*

Although the component prices and price ranges discussed have been based on manufacturers' suggested retail prices, *you should never pay retail price for anything!* Try all kinds of stores—audio salons, stereo chain stores, discount outlets,

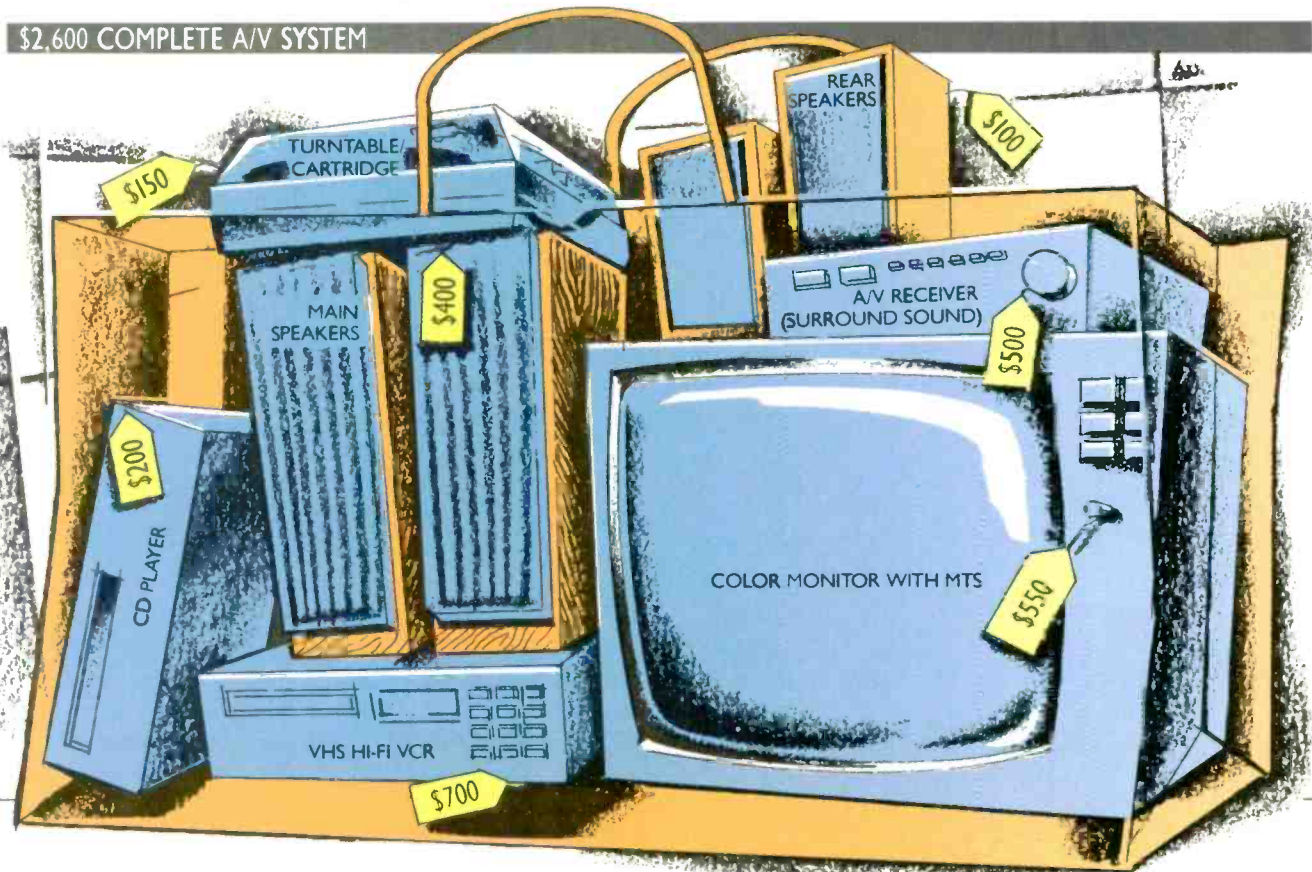
and department stores. Each has its own advantages and disadvantages, and one or another may be right for you because of price, service, selection, location, or just how you feel about a particular store or salesman. A store with good service and friendly, knowledgeable salespeople can be very helpful if your system doesn't sound as good at home as it did in the store.

Remember, you're buying this system for your ears and your music. Take both along when you shop. Depending on the sound sources you plan to purchase, take along a favorite CD, LP, or tape cassette—or all three—when you shop. Choose contrasting selections that you are very familiar with, and remember you are testing components, especially speakers, for how well they reproduce all types of musical sounds, from the soft piano or violin tones of a Mozart concerto to the thundering Moog Taurus bass found on a Genesis record. And finally, before hooking anything up, read all of your owner's manuals, no matter how poorly written. It can save you both time and money while you educate yourself in the pleasures of musical reproduction.

Most important, however, have fun. That's what it's all about anyway, isn't it? □



### \$2,600 COMPLETE A/V SYSTEM







# THE LOUDSPEAKER SYSTEM THAT HAS THE CRITICS PURRING.

"Awesome low end, extraordinarily smooth middles and highs, and remarkably good depth." —*J. Gordon Holt, Stereophile.*

"The audio equivalent of dinner at Le Francais."  
—*Rich Warren, North Shore Magazine.*

"...the cutting edge of technology...left people open mouthed as they left the listening room." —*Nancy Malitz, Gannett News Service.*

"...the latest industry incarnation of an 'ultimate' listening system."  
—*Ron Scibilia, Audio Times.*

"It wasn't the size, the contents or even the price that turned heads, but the knockout sound." —*Larry Johnson, Ovation Magazine.*

Recently, at a carefully selected location in Milford, Pennsylvania, some of the most discerning ears in the business were invited to hear something they'd never heard before. The Altec Lansing Bias™\* 550. The first speakers in the world with Pentamplified sound.

And as you can see, the response was overwhelming.

But then the Bias 550 is a system unlike any other. Discrete amplifiers for each of five bandwidths,

adjustable by remote control. Providing each speaker cabinet with 750 watts of perfectly sculptured sound.

The Bias 550 is the finest example yet of our commitment to total high fidelity. The flagship to a range of loudspeakers that have consistently pushed back the frontiers of audio reproduction. For more information and an Altec Lansing catalog, call 1-800-ALTEC 88.\*\*



Loudspeakers for the well trained ear.

\*Built in Amplification System. \*\* In PA or Canada call 717-296 - HIFI. Copyright 1988 Altec Lansing Consumer Products, Milford, PA 18337.  
© Altec Lansing Consumer Products, Milford, PA.

CIRCLE NO. 80 ON READER SERVICE CARD



# T A P E S Y S T E M S

High performance and high style for just under \$5,000

**T**HE desire for high style doesn't have to conflict with the demand for high performance—at least when designing a tape-based audio system. To put together a good-looking, good-sounding system, I was given a ticket of \$5,000, a tidy sum that represents both the solid middle ground for serious audio enthusiasts and, not surprisingly, the average price of STEREO REVIEW readers' systems.

The NAD 6300 cassette deck (\$898) is a good starting point. It's smart because it includes both Dolby B and Dolby C noise reduction and both Dolby HX Pro and DynEQ headroom-extension circuits for nearly unparalleled high-frequency response. The 6300's front panel is as clean as that of a \$100 no-frills model, yet its performance specs rival those of many fine decks costing more than twice as much. It's also flexible: A CAR switch compresses dynamic range and boosts bass and treble on recordings for the noisy automotive environment, and Dolby-compatible PLAY TRIM circuitry compensates for high-frequency problems in playing tapes made on other decks.

As source components I chose the Yamaha RX-900U (\$799), a receiver with a great tuner, flexible audio/video switching, and a rated 85-watt-per-channel continuous output enhanced by the Absolute Linear Amplification circuit; the dbx DX5 compact disc player (\$699), which combines ease of use with excellent performance and proprietary signal-processing circuits; and a Denon DP-35FB direct-drive turntable (\$320) fitted with a Signet MR5.0ml cartridge (\$350). The RX-900U drives a pair of Design Accustics PS-5's (\$350), mini-bookshelf speaker systems with a particularly clean high end and midrange. Low frequencies are managed by a Velodyne ULD-12 (\$1,195), a 12-inch subwoofer with built-in 250-watt amplifier that sounds as good as it looks. Late-night listening isn't a compromise with Azden's DSR-50 phones (\$80).

The total system price of \$4,691 leaves you just enough to buy some CD's, LP's, and blank tapes. Take a week off from work. You have some taping to do. □

**BY WILLIAM WOLFE**

*Photo by Hing / Newton*







# T A P E S Y S T E M S

A recordist's dream for less than  
the price of a good sports car

**G**IVEN unlimited spending ability, I could probably have come up with an even more elaborate system than the one waiting to be assembled and powered up in the accompanying photos. As it stands, however, \$37,870 is at least the down payment on a house, and I'd stack this system up against just about anything.

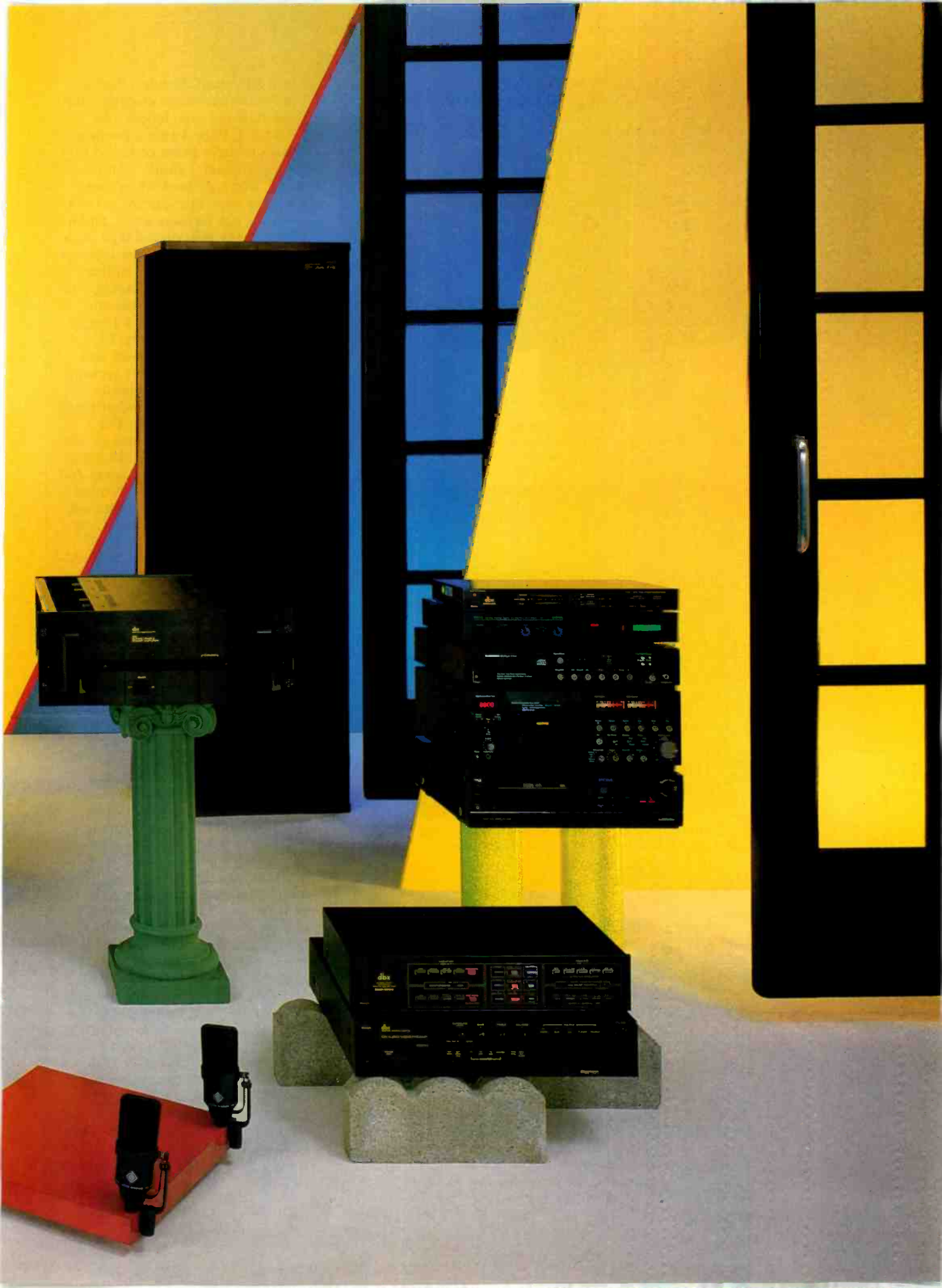
Any stereo system, for recording or otherwise, is only as good as its basics—the power amplifier, preamplifier, and speakers. I chose two of dbx's new BX1 power amplifiers (\$3,700 each) and the dbx CX1 preamplifier (\$2,500) to drive two pairs of Polk SDA-SRS loudspeakers (\$2,990 a pair). The amps provide a minimum of 400 watts per channel into 8 ohms, the preamp includes a dbx-tweaked Dolby Pro



**BY MICHAEL SMOLEN**

*Photo by Roberto Brasan*



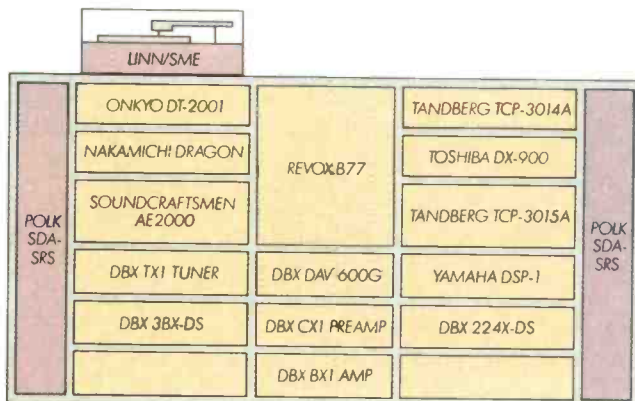




The heart of the system: dbx's BX1 two-, three-, or four-channel configurable power amp, CX1 preamp, and TX1 tuner.



Processing and switching are handled by Soundcraftsmen's AE2000 and dbx's 224X-DS, 3BX-DS, and DAV-600G.



For ease of use, a system like this should be installed with tape decks at eye level and switching devices at chest level.

Logic Surround decoder, digital time-delay ambience circuits, and three buffered tape loops. The SDA-SRS, Polk Audio's flagship system, simply must be heard to be appreciated. I think "sound stage" was redefined when these speakers were introduced in 1984.

Multitrack formats aside, and acknowledging that digital tape decks must still be purchased in Japan, a recording system of this caliber must offer all available taping possibilities. For my main cassette deck I chose Nakamichi's Dragon (\$2,195), with a Tandberg 3014 A (\$2,500) serving as back-up and dubbing partner. For DAT recording Onkyo's DT-2001 (about \$1,800) is my choice of what's currently available overseas. For open-reel recording I chose an old standby, the Revox B77 (\$2,250), that has been around for years and is still a standard by which other open-reel machines are measured. Finally, if you've never tried any digital PCM recording onto half-inch VHS videotape, you should—with Toshiba's DX-900 (\$1,300).

The Linn Sondek LP12 turntable (\$1,165) was an obvious choice. Even the "twekiest" high-end audiophiles tend to compare almost everything else to the stalwart Linn. It's outfitted with SME's spectacular Mark IV tonearm (\$1,250) and Talisman's silky-smooth Virtuoso DTi cartridge (\$1,200).

Other sources for the system include the remarkable-sounding Tandberg TCP 3015 A CD player (\$2,500) and a dbx TX1 tuner (\$600) to match the amp/preamp.

Effective routing and processing of signals in a system of this size is a key to its sonic success, and here I turned to Soundcraftsmen for the very flexible AE2000 one-third-octave graphic equalizer/analyzer (\$799) and to dbx for a plethora of signal processors, including a DAV-600G signal router (\$399), a 3BX-DS compander/ambience generator (\$499), and a 224X-DS Type II noise-reduction system (\$299). For surround sound I chose Yamaha's DSP-1 (\$999).

Accessories for the system include two Neumann KMS84 microphones (\$1,000 each) for live recording and AKG's studio-quality K340 headphones (\$235) for careful monitoring of the recorded signal and late-night sessions.

Rock on! □



ELITE

BY PIONEER

# HOME IMPROVEMENT.







## THE ELITE™ PD-91 FULL 18-BIT CD PLAYER.

If you're still not completely satisfied with CD sound, if you have the nagging feeling something's still missing... you're right. 14-bit, 16-bit or even "floating" 18-bit CD players simply can't deliver all the rich potential of compact disc sound.

It's time for a little Home Improvement—a brilliant improvement at that.

Meet the Elite™ Series PD-91. The compact disc player that lets you hear CD sound in its fullest glory.

The PD-91 employs 8-times oversampling and full 18-bit linear twin D/A converters to yield an amazing 16-fold improvement in retrieval of ambient cues, harmonic detail and "air" around instruments and vocalists. It's an improvement so dramatic your ears will perk up instantly.

To build a player this superior demanded incredible attention to detail.

Example: The PD-91's analogue circuitry is pure Class A for lowest distortion and highest musicality. Inside, you'd see four separate power supplies and eleven voltage regulators—to keep critical small-signal audio information free from interference.


To additionally minimize electrical interaction, portions of the PD-91's circuitry are defeatable—like front panel illumination, headphone amplifier and the analogue output section when digital outputs are being used.

The PD-91 incorporates an outboard power transformer, Pioneer's exclusive copper-plated honeycomb chassis and special ceramic components to combat extraneous vibrations that can destroy signal integrity.

The PD-91's special linear motor delivers the world's fastest track access (1/2-second). You also get flexible seven-way programming, full random play, and, of course, full remote control. Optical as well as coaxial outputs make the PD-91 future-perfect as well.

Want instant Home Improvement in your music system? Then come treat your ears to the PD-91. For your nearest Elite dealer, call 1-800-421-1404.





## THE ELITE LD-S1 LASERVISION PLAYER.

If you want to discover what looking sharp is all about, it's time you took a look at the LD-S1. Because the LD-S1 not only delivers the world's sharpest pictures, it gives you the world's best sound, stunning digital sound simply unavailable from any VCR.

You'll see cleaner, truer pictures—over 420 lines of resolution—due to Pioneer's exclusive Accu-Focus laser pickup and Video Noise Reduction circuit. Together, they yield an unprecedented 48dB video signal-to-noise ratio.

You'll hear the best sounding video ever. Because the LD-S1 uses twin, glitch-free D/A converters and a digital filter with four-times oversampling to produce an S/N ratio of 105dB.

What's more, our exclusive Full-Floating Disc Drive and Magnetic Disc Clamp isolate and stabilize the disc for remarkably reduced picture jitter—an inherent problem videotape players can't begin to solve.

The LD-S1's 8-bit digital field memory also gives you a new dimension of viewing

pleasure. You'll get perfect pictures on freeze frame, and new effects like still pictures with sound and strobe motion with sound. And now for the first time, you can enjoy all these special effects while watching movies, opera and concerts on extended-play (CLV) discs.

See the ultimate sight and sound machine at your Elite dealer today. Because in the world of sight and sound, image is everything. For more information, call 1-800-421-1404.

⊖ ELITE ⊖  
BY PIONEER



# UPGRADE YOUR IMAGE.



# TURBOCHARGE YOUR CD PLAYER.







## THE ELITE A-91D INTEGRATED AMPLIFIER.

Now that the compact disc has taken the world by storm, ordinary amplifiers are failing their driving test. Because ordinary amplifiers simply can't handle the dynamic range and purer signal that digital sound delivers.

Fortunately, the A-91D is far from ordinary. Because the A-91D is built with one thought in mind—to maximize the performance of digital sound.

With 170 watts per channel into 4 ohm speaker loads, and 120 watts into 8 ohms, the A-91D unleashes digital's full dynamic range. Extra-large capacitors and huge finned cast-iron enclosed transformers further contribute to the A-91D's high current capacity and stability into speaker loads as low as 2 ohms.

Along with all this power comes unprecedented purity. You can plug the latest CD players with optical outputs directly into the A-91D, and reap the rewards of independent digital conversion circuitry—with twin, glitch-free D/A converters, a digital filter with four-times oversampling, and an analog lowpass filter made from quality discrete parts. The A-91D also uses Pioneer's exclusive Non-Switching™ Type III amplifier circuit to totally eliminate switching

distortion. What's more, critical signal paths are kept extraordinarily short for less electronic interference and cleaner sound.

When it comes to digital sound, there's no such thing as good vibrations. That's why the A-91D uses a special anti-vibration honeycomb design in the chassis frame. In isolation barriers between electronic sections. Even in all five insulator feet. A large aluminum volume control knob with a specially balanced brass shaft also absorbs distortion-causing vibration, and printed circuit boards are mounted in rubber for the same reason.

The A-91D is not only ready for digital, it's ready for the future. With six digital inputs (2 optical), and three digital outputs (1 optical).

So if you want your digital sound to drive you to new heights, you need to drive your digital components with the Elite A-91D.

For more information, call 1-800-421-1404.

**ELITE**  
BY PIONEER

# TAKE OUT T



## THE ELITE M-90 AND C-90 REFERENCE COMPONENTS

Hum, hiss, crosstalk, vibration: distortion in your audio signal.

Graininess, specks, flecks, jitter: extraneous noise in your video image.

Garbage.

The Elite C-90 pre-amp and M-90 power amp are no-compromise components designed to get rid of it. By keeping critical signal paths as short as possible. By offering you direct CD connection. By introducing motorized volume control, separate audio and video power

transformers, and unique video processing controls like noise reduction, sharpness and detail. By giving you the purest possible audio and video that digital technology has to offer.

In the words of audio critic Julian Hirsch in *Stereo Review*, "The C-90's signal to noise ratio is considerably better than that of any CD player... that makes the C-90 the *true peer* of any digital sound source—the only pre-amplifier we have tested that can make that claim."

The C-90 also cleans up your video. Because it

\*Measured by EIA method. \*\*Based on FTC rules regarding measurement of amplifier power ratings.





# THE GARBAGE.



not only controls up to six video components, its video-enhancing circuits actually improve your video image. Now, even rented videotapes take on a whole new look.

But what good is a complete A/V system without remote capabilities? The C-90's "SR"™ System Remote gives you complete control, plus a unique Motor-Drive Volume Control that eliminates the noise created by typical electronic volume controls.

Where the C-90 leaves off, the M-90 takes over. With 800 watts/channel into 2 ohm loads; 200 watts into 8 ohms,\* and remarkably high current capability (47 amps) for low impedance

driving, the M-90 delivers the kind of performance digital signals demand. And for unprecedented purity, the M-90 even includes its own volume control for direct connection to your CD player.

The Elite M-90 and C-90 working together. There's just no better way to take out the garbage. For more information, call 1-800-421-1404.



# THE ELITE REGISTER

## ALABAMA

Florence  
Ingram Audio

## ALASKA

Anchorage  
Magnum Electronics  
Kodiak  
Island TV

## ARIZONA

Phoenix  
Integrated Systems  
Jerry's Audio  
Prescott  
Audio  
Entertainment  
Systems  
Tucson  
Jerry's Audio

## ARKANSAS

Fayetteville  
Amp Audio  
Little Rock  
Walloch Home  
Center  
Pine Bluff  
Stereo Junction

## CALIFORNIA

Alamo  
Laser Faire  
Alhambra  
Audio Video Center  
Berkeley  
Honkers Sound Co.  
Burbank  
The Lasers Edge  
Canoga Park  
The Lasers Edge  
Encino  
Audio Video  
Electronics  
Glendale  
Marconi Radio  
Goleta  
House of Audio  
Video  
Greenbrae  
Videola  
Irvine  
Sound Quest  
Los Angeles  
Royal Sound  
Mill Valley  
Videola  
Mission Viejo  
Videolaser  
Monrovia  
Video Place  
Palo Alto  
Western Audio  
Imports  
Sacramento  
Paradyne  
San Bernardino  
Video Mart  
San Diego  
Convoy Audio Video  
Stereo Design  
San Francisco  
Audio Excellence  
Wong's Hi Fi  
San Jose  
Quement  
Electronics  
Santa Cruz  
Water Street Stereo

Santa Maria  
Lombards Discount  
Stereo

Santa Monica  
Jonas Miller Sound

Simi Valley  
House of  
Audio Video

Tustin  
Digital Ear  
Woodland Hills  
Wilson  
Audio Video  
Entertainment

## COLORADO

Colorado Springs  
U.S. Tech of  
Colorado Springs  
Denver  
Listen Up

## CONNECTICUT

Danbury  
Sounds Alive  
East Hartford  
Hi Fi Image  
Greenwich  
Aud Vid  
Groton  
Leiser Sound  
Newington  
Sound Playground  
Norwich  
Leiser Sound  
Orange  
Sounds Alive  
Stamford  
Sounds Alive  
Wallingford  
Best Buys  
Waterbury  
Zinno Music  
Westport  
Sounds Alive

## DELAWARE

Wilmington  
Laser Sight  
& Sound

## FLORIDA

Altamonte Springs  
Boss Audio  
& Video  
Boca Raton  
Verns Electronics  
Daytona  
Electronics  
Environment  
Ft. Lauderdale  
Sound Design &  
Engineering  
Melbourne  
Audio Mart  
Merritt Island  
Audio Mart  
Miami  
Audio Coll  
Audio Plus  
Kalu  
Overseas  
Electronics  
Victors International  
Pinellas Park  
Cooper For Stereo  
Royal Palm Beach  
Family Video Super  
Centers

Stuart  
Sound & Vision

## GEORGIA

Doraville  
Ellie's Hi Fi  
Tifton  
Berger's Audio  
& TV

## HAWAII

Honolulu  
Anderson's Camera  
& Hi Fi Store

## IDAHO

Idaho Falls  
Phase Four Stereo  
Pocatello  
Phase Four Stereo

## ILLINOIS

Burbank  
Digital TV  
Chicago  
Mills Recording  
Belmont Electronics  
Darien  
K-B TV  
Lansing  
Unitek Electronics  
Morton  
Northpoint  
Video, Audio  
& Appliance  
Peoria  
Northpoint  
Video, Audio  
& Appliance  
Quincy  
First in Video  
MusicWorld

## INDIANA

Anderson  
Disc-O-Tech  
Angola  
King's Antenna  
Crown Point  
Crown Electronics  
Fort Wayne  
Lehman Electronics  
Huntington  
Lehman Electronics  
Logansport  
Todd's  
Warsaw  
Butterfly  
IOWA  
Fort Dodge  
Sound World  
Marion  
The Audio Room  
Orange City  
The Movie Express

## KANSAS

Overland Park  
Audio Video  
Electronics  
ESP Industrial  
Communications

Salina  
Del's TV & Tape  
Center

## KENTUCKY

London  
Sounds Around  
Town  
Louisville  
Audio Video by  
Design

## LOUISIANA

Baton Rouge  
Art Colley's Audio  
Specialties  
Metairie  
Alterman Audio  
New Orleans  
Alterman Audio

## MARYLAND

Annapolis  
H.A. Hi Tech  
Gaithersburg  
Audio Buys

## MASSACHUSETTS

Auburn  
Leiser Sound  
Cambridge  
Audio Video  
Environments  
Framingham  
Natural Sound  
Littleton  
Music Shack  
Nantucket  
Berts Electronics  
Seekonk  
Leiser Sound  
Shrewsbury  
Leiser Sound  
Waltham  
The Instant  
Replay

## MICHIGAN

Ferndale  
Jam Hi Fi Sound  
Specialists  
Plymouth  
Digital  
Entertainment

## MINNESOTA

Edina  
Laser Ware  
Scholes  
Enterprises  
Fairmont  
Bill's Radio & TV  
Minneapolis  
Peterson  
Entertainment  
Design  
Richfield  
Pro Line Audio  
St. Paul  
Robert Paul TV

## MISSISSIPPI

Meridian  
Hoopers Electronic  
Supply

## MISSOURI

Kirkville  
Wright Tire &  
Appliance  
Kirkwood  
Warner  
Communications  
Oakville  
Quality Sight and  
Sound

## MONTANA

Great Falls  
Rocky Mountain Hi Fi

## NEW JERSEY

Cherry Hill  
Soundworks  
Cliffside Park  
Entertainment  
Environment  
Hamilton Square  
Rock Dreams  
Livingston  
Electromedia Design  
Millburn  
Professional Audio  
New Brunswick  
Hi Fi Haven  
Woodbridge  
Woodbridge Stereo  
Wyckoff  
Conklin's Audio Video

## NEW YORK

Hicksville  
Designatron  
Huntington Station  
Audio Breakthrough  
Manhasset  
Audio Breakthrough  
Merrick  
Performance  
Audio & Video  
New York  
Audio Breakthrough  
Bryce Audio  
Custom Media  
Design  
East Side Stereo  
Hi Fi Electronics  
Lyric Hi Fi  
Sound by Singer  
Watts That Sound/  
Continental Sound  
Rochester  
Rowe Photo  
Scarsdale  
The Listening Room  
Watertown  
The Happy Ear  
White Plains  
Audio Design  
Lyric Hi Fi

## NORTH CAROLINA

Albemarle  
Music Mart  
Durham  
Kerr's Audio Visions  
Fayetteville  
Rhudy's Camera  
& Video  
Hickory  
Dacia Electronics  
Lenoir  
Crowells  
Reidsville  
Trent's Stereoland

## NORTH DAKOTA

Minot  
Einstein's  
Audio/Video  
John Iverson Co.

## OHIO

Beachwood  
Nutec  
Cincinnati  
Audio Vision Plus  
Cleveland  
Reserve  
Enterprises/  
Northwood Home  
Electronics  
Mansfield  
High Tech Video  
Maple Heights  
Eric Martins  
South Euclid  
Atlantis Home  
Entertainment  
System  
Westlake  
New Images  
Electronics

## OKLAHOMA

Oklahoma City  
Contemporary  
Sounds of  
Oklahoma

## OREGON

Astoria  
Greenburg's  
Furniture  
Salem  
Salem Sound Center

## PENNSYLVANIA

Rego Park  
Soundex Electronics  
Broomall  
Hi Fi House  
Lancaster  
Video Gallery Plus  
Natrona Heights  
Butch's Sound Shack  
Philadelphia  
Music on the Square  
Willow Grove  
Soundex Electronics  
York  
The Electronics  
Place

## RHODE ISLAND

N. Providence  
Eastern Discount  
Westerly  
Leiser Sound, Inc.

## SOUTH CAROLINA

Columbia  
Laser Experience  
Hartsville  
Haynes  
Electronics  
Hilton Head  
Island  
Audio Visual  
Resources  
Georgetown  
Stereo Video  
Center

## SOUTH DAKOTA

Sioux Falls  
Warren Supply

## TENNESSEE

Knoxville  
Hi Fi House  
Memphis  
New Wave Audio  
and Video  
Nashville  
Hi Fi Buys

## TEXAS

Dallas  
Custom Video  
El Paso  
Casa Sonido  
Fort Worth  
Marvin  
Electronics  
Houston  
Audio Video Plus  
Laredo  
Jett Sales  
Lubbock  
American Audio  
Video

## UTAH

Midvale  
Inkley's

## VIRGINIA

Alexandria  
Video Station of  
Virginia  
Franklin  
Audio Showroom  
Manassas  
Audio Buys  
Newport News  
Sound Approach  
Roanoke  
Lee Hartman  
& Sons  
Winchester  
Sound City

## WASHINGTON

Redmond  
Home  
Entertainment  
by Design  
Seattle  
Definitive Audio

## WISCONSIN

East Troy  
Video Playground  
Glendale  
Sound Stage  
Green Bay  
Sound World  
Hayward  
M & M Video  
LaCrosse  
Team Electronics

CIRCLE NO. 35 ON READER SERVICE CARD





# RECEIVERS



## a/d/s/

### AR4 70-W/ch Receiver

Alphanumeric display on front panel indicating input source or received radio station. Digital-synthesized tuner with 30 memory presets for AM or FM stations; wireless remote control (which also controls other a/d/s/ components); digital volume and tone controls; RS-232 port allows control through personal computer; capable of multi-room remote control. Amp section: 70 W/ch into 8/4 ohms; dynamic headroom 2 dB. Tuner section: IHF sens 26 dBf stereo; signal strength for 50-dB quieting 35 dBf stereo; capture ratio 1.5 dB; alt-ch sel 65 dB; max S/N 75 dB mono, 70 dB stereo. 2.8 x 17.5 x 14.8-in; 23 lb. .... \$1,400

### RC1 Unified Remote Control

Infrared wireless remote controls R4 and other a/d/s/ components ..... \$140

## AKAI

### AA-V435-B 125-W/ch AM/FM Receiver

125 W/ch AM/FM receiver with universal remote; 70 programmable functions; Dolby surround sound with 7 W/ch rear; motor driven volume; variable loudness; 9 audio; 4 video inputs; S-VHS terminals; RF signal selector (3 In/1 Out); sound insert; simulate stereo; source direct; 10-key direct tuning; 20-station random preset; processor terminal; speaker A/B\$649

### AA-V335-B 100-W/ch AM/FM Receiver

100 W/ch AM/FM receiver with motor driven volume; variable loudness; 9 audio; 4 video inputs; S-VHS terminals; RF signal selector (3 In/1 out) sound insert; simulated stereo; source direct; 10-key direct tuning; 20-station random preset processor terminals; speaker A/B ..... \$549

### AA-V235-B 60-W/ch AM/FM Receiver

60 W/ch AM/FM receiver with 62 function unified remote; motor driven volume; variable loudness; 9 audio; 4 video inputs; 10-key direct tuning; 20-station random preset; source direct mode; processor terminal; speaker A/B ..... \$449

## ACOUSTIC RESEARCH

### AR X-10 AM/FM Stereo Receiver

Receiver with infrared remote to control power, volume, tuning, input selection, and AR CD player functions. Features audio and video dubbing; close-tolerance metal-film resistors and film capacitors for RIAA; concealed bass, midrange, treble, balance, tone-defeat, loudness, filter, tape, FM/AM, memory, and speaker-switching controls; 8 AM/8 FM station presets; gold-plated phono inputs. Inputs for MM phono; MC phono; tape; AUX; CD player; video sound source; VCR 1; VCR 2. Amp section: 100 continuous average W/ch from 20-20,000 Hz into 8 ohms with less than 0.03% THD, 130 W into 4 ohms; dynamic headroom 2 dB; 200-ms dynamic power 150 W; 40-ampere current capability. FM section: 50-dB quieting sens stereo 25  $\mu$ V (33.2 dBf); FM S/N (at 65 dBf) 75 dB stereo, 80 dB mono; THD stereo 0.3%; capture ratio 1.0 dB; AM rejection 60 dB; alt-ch sel 75 dB .. \$849

### AR X-07 AM/FM Stereo Receiver

Receiver with infrared remote to control power,

volume, tuning, input selection, and AR CD player functions. Features audio and video dubbing; close-tolerance metal-film resistors and film capacitors for RIAA; concealed bass, midrange, treble, balance, loudness, mono, tape, VCR, tuning, and speaker-switching controls; 8 AM/8 FM station presets; gold-plated phono inputs. Inputs for MM phono; MC phono; tape; AUX; CD player; video sound source; VCR 1; VCR 2. Amp section: 70 continuous average W/ch from 20-20,000 Hz into 8 ohms with less than 0.03% THD, 80 W into 4 ohms; dynamic headroom 2 dB; 200-ms dynamic power 90 W; 40-ampere current capability. FM section 50-dB quieting sens stereo 40  $\mu$ V (37.2 dBf); FM S/N (at 65 dBf) 75 dB stereo, 80 dB mono; THD stereo 0.3%; capture ratio 1.0 dB; AM rejection 60 dB; alt-ch sel 70 dB ..... \$749

## BANG & OLUFSEN

### Beocenter 9000 30-W/ch Music Center

Remote-controlled music center with AM/FM tuner, cassette deck, and CD player. Features remote control; glass operating panel; computer-intelligence system; timer programming; datalinked source inputs; Tuner section: 20 AM/FM station presets;



automatic search; stereo/mono switch; internal lithium battery for memory backup; double-acting automatic gain control. CD section: quadruple-oversampling digital filter; motorized lid; variable-speed search in both directions; track step; 30-track random programming. Cassette section: autoreverse; motorized lid; Dolby HX Pro; Dolby B and C noise reduction; Auto Azimuth Guidance; Auto Record Level; 23-track programming; track step ... \$3,295

### Beomaster 5500 50-W/ch AM/FM Receiver

Includes Master Control Panel remote control and handheld infrared remote; presets for 20 AM and FM stations; Auto Power Handling Control; double-acting auto gain control in FM; volume, bass, treble, and balance controlled from knob on MCP remote; works with other Beosystem 5500 components for multi-room remote control; direct selection of any FM or AM station by frequency; station search; silver and black finish. Power output 50 W/ch into 8 ohms; dynamic headroom 1.5 dB; 50-dB quieting sens 40 dBf; capture ratio 1.7 dB. 16.5 x 3 x 12.75 in; 19.2 lb. .... \$2,150

### Beomaster 3300 25-W/ch AM/FM Receiver

Works with other Beosystem 3300 components for multi-room remote control; sensi-touch capacitance controls; volume controlled from wireless remote; 4

FM, 1 AM presets; auto power with source selection; bass (max +9, -14 dB at 40 Hz), treble (max +9, -14 dB at 12,500 Hz), balance controls; loudness switch; programmable volume level; Auto Power Handling Control; mounts on wall with accessory brackets; headphone jack; drives 2 pairs of speakers. 25 W/ch into 8 ohms; 50-dB quieting sens 43 dBf stereo; capture ratio 1.7 dB; 24.5 x 2.75 x 10 in; 15.4 lb. .... \$880

## CARVER

### 150-W/ch AVR100 Audio/Video Receiver

Magnetic Field Amplifier; 6 AM/6 FM presets; Asymmetrical Charge-Coupled FM Detector; Sonic Holography; bass control boosts or cuts 100 Hz max 8 dB; treble boosts or cuts 10,000 Hz max 8 dB; 4 video inputs, 3 video outputs, with switching and dubbing; antenna/cable switching; surround-sound processor with 50 W; 20-function remote. 150 W/ch. Tuner section: FM sens IHF 2.0  $\mu$ V; FM 50-dB quieting sens 4.5  $\mu$ V mono or stereo; capture ratio 1.5 dB; AM distortion at 2  $\mu$ V 0.6% ..... \$1,199

### 125-W/ch AM/FM Receiver 6250

Features magnetic field amplifier; 6 AM/FM station presets; asymmetrical charge-coupled FM detector; sonic holography; bass, mix, and treble controls; 2 video inputs; 20-function remote control; 125 W/ch; FM sensitivity IHF 2.0  $\mu$ V ..... \$899



### 150-W/ch AM/FM Receiver 150

Designed for noise-free stereo FM and adequate power for CD's; PLI fully digital-synthesized AM/FM stereo tuner section; Magnetic Field Amp; Asymmetrical Charge-Coupled FM Detector; phono input; video/digital audio input; aux input; 2 tape inputs; 6 station presets; mono switch; bass, mid, treble controls; balance control; switches for tone defeat, speaker selection, tape monitoring, tape dubbing, FM muting, AM noise filter, loudness contour. 150 W/ch into 8 ohms. FM section (stereo, 75 ohms, with Charge-Coupled Detector engaged): usable sens 16.3 dBf (1.78  $\mu$ V); 50-dB quieting sens 23.5 dBf (4.0  $\mu$ V) ..... \$749

### 100-W/ch AM/FM Receiver 6200

Features magnetic field amplifier; 6 AM/6 FM station presets; asymmetrical charge-coupled FM detector; bass control boosts or cuts 100 Hz max 8 dB; treble boost or cuts 10,000 Hz max 8 dB; 20-function remote control; 100 W/ch; FM sensitivity IHF 2.0  $\mu$ V ..... \$699

## DENON

### DRA-1025 AM/FM Receiver

Features 120 W/ch and full function remote control. Inputs for turntable, 2 tape decks, CD player, VCR.

# RECEIVERS

Pre-out main jacks; 5-way speaker terminals; 16 station tuner preset; fluorescent; preset FM scan; variable loudness EQ; simulcast copy function; simulated stereo circuit. THD 0.006% -3 dB at rated output; IMD 0.005%; FR 20-50,000 Hz  $\pm$  1.5 dB; S/N 110 dB; 6.37 x 17.08 x 15.51-in; 26.46 lb. . . . . \$950  
DRA-825. Similar to above with 90 W/ch. . . . \$800

## DRA-625 AM/FM Receiver

65 W/ch AM/FM receiver with remote control. Features liquid cooled heat sinks, variable loudness EQ, one-touch source selection, pre-out jacks, 3-way speaker terminals, 16-station random preset memory tuning; auto scanning; last channel tuned memory. THD 0.0095% -3 dB at rated output; IMD 0.025%; FR 20-50,000 Hz  $\pm$  1.5 dB; S/N phono 88 dB-FM 82 dB-CD/tuner/tape 98 dB; 5.39 x 17.08 x 13.77-in; 21 lb. . . . . \$550  
DRA-425. Similar to above with 50 W/ch. . . . \$450

## DRA-35V AM/FM Receiver

Features 40 W/ch; 16-station preset tuning; auto seek; variable loudness control; last-channel memory; nonswitching Class A amp; A/V in/out; electronic input switching. . . . . \$375

## DRA-25 AM/FM Receiver

Stereo receiver features straight amplification design; CD direct switch; variable loudness EQ; liquid heat-cooled sink; high-linearity phono stage; 16-station random preset memory; microprocessor assisted tuning system; FL display; auto-scan; up/down manual tuning; last-channel-tuned memory. 30 W/ch min rms into 8 ohms from 20-20,000 Hz with no more than 0.05% THD; FM 50 dB quieting sens 23  $\mu$ V (stereo); capture ratio 1.5 dB; AM suppression 50 dB. . . . . \$380

## FISHER

### R625B 120-W/ch AM/FM Receiver

AM/FM receiver with 38-function wireless remote control. Features 5-band graphic equalizer; motorized volume control; 24 AM/FM station presets; autotune; built-in FM muting; FL display; 120 W/ch rms into 8 ohms at 20-20,000 Hz with <0.09% THD; loudness switch. . . . . \$450

### RS615B 60-W/ch AM/FM Receiver

AM/FM receiver with 37-function wireless remote control. Features 5-band graphic equalizer; motorized volume control; 24 AM/FM station presets;



autotune; built-in FM muting; FL display; 60 W/ch rms into 8 ohms at 20-20,000 Hz with <0.09% THD; loudness switch. . . . . \$350

### RS605B 40-W/ch AM/FM Receiver

AM/FM receiver features 5-band graphic equalizer; equalizer; 24 AM/FM station presets; autotune; built-in FM muting; FL display; 40 W/ch rms into 8 ohms at 20-20,000 Hz with <0.09% total harmonic distortion; loudness switch. . . . . \$300

## HARMAN KARDON

### hk990 Vxi 90-W/ch AM/FM Receiver

AM/FM receiver with digital synthesized quartz-locked tuning and remote control. Features high current/high voltage design; active tracking tuner circuitry; 6 AM/12 FM presets; seek tuning; LED signal strength meter; two tape monitors; two A/V monitors; interactive video switching; CD high level inputs; external processor jacks; MC head amp; subsonic filter; mono; loudness; tape copy selector; 2-way A/V; speaker switching; metal chassis. . . \$1,099



### hk880 Vxi 60-W/ch AM/FM Receiver

AM/FM receiver with digital synthesized quartz-locked tuning and remote control. Features high current/high voltage design; 6 AM 12 FM presets; seek tuning; LED signal strength meter; two A/V tape monitors; interactive video switching; CD high level inputs; external processor jacks; subsonic filter; mono; loudness; 2-way tape copy selector; speaker switching; metal chassis. . . . . \$749

### hk550 Vxi 45-W/ch AM/FM Receiver

AM/FM receiver with digital synthesized quartz-locked tuning. Features high current/high voltage design; 6 AM 12 FM presets; seek tuning; two tape monitors; CD, video, and aux high level inputs; loudness; speaker switching; metal chassis. . . . \$529

### hk440 Vxi 30-W/ch AM/FM Receiver

AM/FM receiver with digital synthesized quartz-locked tuning. Features high current/high voltage design; 6 AM 12 FM presets; seek tuning; two tape monitors; CD and video high-level inputs; loudness; speaker switching; metal chassis. . . . . \$389

### hk330 Vi 25-W/ch AM/FM Receiver

AM/FM receiver with digital-synthesized quartz-locked tuning; 6 AM/12 FM presets; select tuning; two tape monitors; CD and video high level inputs; loudness; speaker switching. . . . . \$319

## HITACHI

### MX-W50 Hi-Fi System/CD Player

CD slimline system with infrared remote control. Features CD player; twin cassette deck, digital tuner, amplifier; dual tape deck controlled by microprocessor for feather touch operation; double auto reverse; digital-synthesized quartz tuner locks in station signal; 4-way selection repeat; vibration free floating suspension system; resume play function; built-in timer; single D/A converter 20-station memory; 50 W/ch; 0.9% THD 5-band graphic equalizer; dolby NR equalization switch for all tape types; FR FM 88-108 MHz; FR AM 522-1611 MHz; Jacks for headphone, line-in, phono, speaker, ext antenna; 25.72 x 5 x 14.5 in; 22 lb. . . . . \$899

MX-W51. Same as above with HS-W50 Speakers. Speakers feature 8" poly-coat-cone type woofer; 5" poly-coat-cone type midrange; 1" polycarbonate dome type tweeter; nominal power input 70 W; SPL 90 dB; imp 8 ohms. . . . . \$1,299

## JVC

### RX1001VBK Audio/Video Receiver

Audio/video receiver with surround-sound capability. Features programmable remote control with LCD; Digital Acoustics processor; digital Dolby surround; computer-controlled digital synthesizer tuner; preset memory for 40 AM/40 FM stations; auto memory; preset scan; auto QSC; dB indicator; variable stop level; station name indicator; LCD on unit; tape 1, tape 2, DAT, VCR 1, VCR 2, phono, CD inputs; dubbing capability; 3 video inputs; 7-band electronic SEA graphic equalizer with 5 user-programmed and 5 pre-programmed equalizations; interactive CCS; high-gain phono equalizer for MM/MC cartridges; loudness; sleep timer; connections for two pairs of speakers; CATV antenna control unit. 120 W/ch driven into 8 ohms from 20-20,000 Hz with no more than 0.007% THD. Front surround: 110 W/ch into 8 ohms from 20-20,000 Hz with no more than 0.007% THD; rear surround: 15 W/ch into 8 ohms at 1,000 Hz with no more than 0.07% THD. . . . . \$1,200

### RX999VBK Audio/Video Receiver

A/V receiver with programmable remote control. Features digital Dolby surround; hall; stadium; adjustable digital delay; 3 video inputs; computer-controlled electronic 7-band SEA graphic equalizer with 5 user-programmed settings and 5 pre-programmed settings; digital synthesizer tuner with 40 AM/40 FM station presets; auto memory; preset scan; auto QSC; dB indicator; Dynamic Super-A with Gm Driver; LCD display; interactive CCS; 5-deck connections with full dubbing; loudness and connections for two pairs of speakers; CATV antenna control unit. 100 W/ch into 8 ohms from 20-20,000 Hz with no more than 0.007% THD. Front surround: 90 W/ch into 8 ohms from 20-20,000 Hz with no more than 0.007% THD; rear surround: 15 W/ch into 8 ohms at 1,000 Hz with no more than 0.7% THD. . . . . \$840

### RX777VBK Audio/Video Receiver

A/V receiver with digital Dolby surround, hall, stadium, and adjustable digital delay. Features 2 video inputs; digital synthesizer tuner with 40 AM/40 FM station presets; auto memory; preset scan; 7-band SEA graphic equalizer; LCD on unit; interactive CCS; loudness and connections for two pairs of speakers; CATV antenna control unit; programmable remote control. 80 W/ch into 8 ohms from 20-20,000 Hz with no more than 0.007% THD. Front surround: 75 W/ch into 8 ohms from 20-20,000 Hz with no more than 0.007% THD; rear surround: 7 W/ch into 8 ohms at 1,000 Hz with no more than 0.7% THD. . . . \$630  
RX777VSBK. As above with unified A/V remote control. . . . . \$570

### RX555BK AM/FM Receiver

AM/FM receiver with A/V remote control. Features loudness and connections for two pairs of speakers; digital synthesizer tuner with 40 AM/40 FM station presets; auto memory; preset scan; LCD on unit; interactive CCS; 7-band SEA graphic equalizer with equalized dubbing; CATV antenna control unit. 60 W/ch into 8 ohms from 20-20,000 Hz with no more than 0.007% THD. . . . . \$420

### RX333BK AM/FM Receiver

AM/FM receiver with full-function remote control. Features loudness and connections for two pairs of speakers; digital synthesizer tuner with 40 AM/40 FM station presets; auto memory; preset scan; LCD on unit; interactive CCS; 5-band SEA graphic equalizer; CATV antenna control unit. 45 W/ch into 8 ohms from 40-20,000 Hz with no more than 0.08% THD. . . . . \$320

### RX222BK AM/FM Receiver

AM/FM receiver with full-function remote control. Features loudness and connections for two pairs of speakers; digital synthesizer tuner with 40 AM/40 FM station presets; auto memory; preset scan; LCD on unit; interactive CCS; CATV antenna control unit. 35 W/ch into 8 ohms from 40-20,000 Hz with no more than 0.08% THD. . . . . \$280

### RX150BK AM/FM Receiver

Features digital synthesis tuning; 8 AM/8 FM station presets; auto loudness contour; connections for 2 pairs of speakers; FM mode/muting switch. 25 W/ch into 8 ohms from 40-20,000 Hz with no more than 0.5% THD. . . . . \$200

## KENWOOD

### KR-V127R Audio/Video Receiver

AM/FM receiver with voltage interface gauge (VIG) power amplifier circuit. Features programmable full remote control; three video inputs; video dubbing with audio injection; Dolby/Theater/Stadium Surround; 20-Station Name Preset System (SNSP); 5-category music select presets; 7-band electronic graphic equalizer; 7-band spectrum analyzer; auto-memory entry; equalizer recording switch; MM/MC cartridge selector; speaker A/B selector; 10 W/ch rear speaker amplifier; THD 0.008%; IMD 0.008%; FR 20-



# RECEIVERS

20,000 Hz; S/N ratio 82 dB; graphic equalizer center frequency 60 Hz at 1 kHz; usable sens 10.8 dBf; 50 dB quieting sens 74 dB ..... \$699

## KR-V107R Audio/Video Receiver

AM/FM receiver with voltage interface gate (VIG) power amplifier circuit. Features unified full remote control; three video inputs; video dubbing with audio injection; Dolby/Theater/Stadium Surround; 20-Station Name Preset System (SNPS); 5-category music select presets; preset scan with music calendar; 7-band electronic graphic equalizer; 7-band spectrum analyzer; FM auto-memory entry; equalizer recording switch; speaker A/B selector; 10 W/ch rear speaker amplifier; THD 0.008%; IMD 0.008%; FR 20-20,000 Hz  $\pm$  0.5 dB; S/N ratio 82 dB; graphic equalizer center frequency 60 Hz; usable sens 10.8 dBf. 5.25 x 16.56 x 14.5 in; 23.1 lb ..... \$599

## KR-V87R Audio/Video Receiver

AM/FM receiver with voltage interface gate (VIG) power amplifier circuit. Features system memory; unified full remote control; audio injection; Dolby



surround; 20-Station Name Preset System (SNPS); preset scan; 7-band electronic graphic equalizer; FM auto-memory entry; equalizer recording switch; speaker A/B selector; 10 W/ch rear speaker amplifier; THD 0.008%; IMD 0.008%; FR 20-20,000 Hz  $\pm$  0.5 dB; S/N ratio 73 dB; graphic equalizer center frequency 60 Hz; usable sens 10.8 dBf; 50dB quieting sens 14.2 dBf. 5.06 x 16.56 x 12.69 in; 18.1 lb ..... \$499

## KR-V77R Audio/Video Receiver

AM/FM receiver with unified full remote control. Features system memory with NiCad backup battery; video dubbing with audio injection; matrix surround sound; 20-Station Name Preset System (SNPS); preset scan; manual scan; 7-band electronic graphic equalizer; equalizer recording switch; speaker A/B, A + B selector; THD 0.03%; IMD 0.03%; frequency response 20-20,000 Hz  $\pm$  0.5 dB; signal-to-noise ratio 73 dB; graphic equalizer center frequency 60 Hz; usable sensitivity 10.8 dBf; 50 dB quieting sensitivity 14.2 dBf; IF rejection ratio 86 dB. 5.06 x 16.56 x 12.69 in; 18.1 lb ..... \$399

## KR-A57R AM/FM Receiver

Features 55 watts per channel; unified remote control; 5-band graphic equalizer; matrix surround; 20-Station AM/FM random preset memory; 10-key direct frequency input; preset scan; electronic input selectors; two video sound inputs; speaker A/B selector; THD 0.03; IMD 0.03; FR 20-20,000 Hz  $\pm$  0.5 dB; S/N ratio 73 dB; graphic equalizer center frequency 60 Hz; usable sens 10.8 dBf; 50dB quieting sens 17.2 dBf; IF rejection ratio 86 dB. 4.31 x 16.56 x 9.31 in; 10.1 lb ..... \$329

## KR-A47 40-W/ch AM/FM Receiver

Receiver with 16-station AM/FM random preset memory. Features preset scan; automatic/manual tuning; electronic input selectors; video surround; speaker A/B selector; THD 0.03%; IMD 0.03%; FR 20-20,000 Hz  $\pm$  0.5 dB; S/N ratio 73 dB; graphic equalizer center frequency 60 Hz; usable sens 10.8 dBf; 50 dB quieting sens 17.2 dBf; IF rejection ratio 86 dB. 4.31 x 16.56 x 9.0 in; 11.7 lb ..... \$239

## KYOCERA

### R-861 Receiver

Features 100 W/ch (continuous rms, both channels driven into 8 ohms, from 20-20,000 Hz, with no more

than 0.02% THD); 3-band parametric EQ for tonal adjustment; switchable MM/MC phono preamp; preamp out/main amp in jacks; subsonic filter; quartz-frequency synthesis tuning with high-speed 2,500 Hz comparator for low noise; switchable IF bandwidth; defeatable bass/treble controls; Dolby FM de-emphasis switch; 7 AM and 7 FM preset stations; high-blend feature. FM S/N 76 dB stereo, 82 dB mono; slew rate 50 V/ $\mu$ sec; rise time 1.0  $\mu$ sec; S/N (IHF-A) phono MC 74 dB, phono MM 85 dB, high-level inputs 100 dB ..... \$1,200

### R-661 Receiver

Features 70 W/ch (continuous rms, both channels driven into 8 ohms, from 20-20,000 Hz, with no more than 0.02% THD); defeatable bass and treble controls for tonal adjustment; switchable MM/MC phono preamp; preamp out/main amp in jacks; subsonic filter; quartz-frequency synthesis tuning with high-speed 2,500 Hz comparator for low noise; switchable IF bandwidth; 7 AM and 7 FM presets; high-blend feature. FM S/N 74 dB stereo, 80 dB mono; slew rate 50 V/ $\mu$ sec; rise time 1.0  $\mu$ sec; S/N (IHF-A) phono MC 64 dB, phono MM 82 dB, high-level inputs 100 dB ..... \$900

### R-461 Receiver

Inputs for MM phono, 2 tape, 2 AUX, CD player. Amp section: 50 continuous average W/ch from 20-20,000 Hz with no more than 0.02% THD driven into 8 ohms; dynamic headroom 2.1 dB; IHF IMD 0.02%; FR 30-15,000 Hz  $\pm$  1 dB. FM section: alt-ch sel 55 dB; 50-dB quieting sensitivity mono 17 dBf (50 dB), stereo 37.2 dBf (50 dB); max S/N, A-wtd, mono 77 dB, stereo 72 dB; THD mono 0.08%, stereo 0.12%; channel separation 48 dB at 1,000 Hz; capture ratio 1.2 dB. AM section: loop sensitivity 300  $\mu$ V. 18.12 x 4.31 x 12.12 in; 18.5 lb ..... \$650

### R-261 Receiver

Inputs for MM phono, tape, aux, CD; Amp section 30 continuous average W/ch from 20-20,000 Hz with <0.05% THD into 8 ohms; dynamic headroom 2.1 dB; IHF and IMD 0.02%; FR 30-15,000 Hz  $\pm$  1 dB; FM section alt ch selection; 55 dB; 50 dB quieting sens mono 17 dBf; stereo 37.2 dBf; max S/N; A-wtd, mono 77 dB; stereo 72 dB; THD mono 0.08%; stereo 0.12%; sep 48 dB at 1,000 Hz; capture ratio 1.2 dB. AM; loop sens 300  $\mu$ V; 18.12 x 4.31 x 12.12 in ..... \$450

## LUXMAN

### R-117 160-W/ch AM/FM Receiver

Receiver with full-function system remote control including video and video sound switching. Features low-impedance drive capability; CD straight mode; FET differential phono input; 5 gang varactors, dual gate MOSFETs; pre-out/main-in. Power output 160 W/ch from 20-20,000 Hz with <0.03% THD; IMD <0.03% (35 W/8 ohms); S/N 88 dB (MM), 70 dB (MC), 98 dB (CD, tape, A/V); FM sensitivity (stereo) 36 dBf; FM S/N (stereo) 75 dB; FM total harmonic distortion (stereo) <0.1% ..... \$1,200  
R-115. Similar to above with 75 W/ch; remote control; audio switching/video switching. .... \$800  
R-113. Similar to above with 35 W/ch; THD <0.08%. No remote control ..... \$450

## McINTOSH

### MAC 4300V AM/FM Receiver

AM/FM 100 W/ch stereo receiver with remote control. Features MPX filter; 6 station presets; signal-strength indicator; LED display of station frequency; 1 unswitched outlet; loudness; 1, 2, and 1+2 speaker selector; 5-band equalizer; scan; headphone jack. Amp: THD 0.02%; IMD 0.02%; FR 20-20,000 Hz +0/-0.5 dB; SN 100 dB. Tuner: S/N 75 dB stereo; FR 20-15,000 Hz +0/-1.0 dB stereo; THD 0.08% at 1,000 Hz; FM S/N 70 dB stereo; FM capture-ratio 1.5 dB; Front panel is brushed black anodized with gold trim; side panels are machined solid walnut with finish; 18.47 x 6.06 x 14 in; 34 lb 5 oz ..... \$2,995

### MAC 4275 AM/FM Receiver

AM/FM 75 W/ch stereo receiver. Features MPX filter; 5 station presets; signal-strength indicator; LED display of station frequency; Power Guard circuit; 1 unswitched outlet; loudness; 1, 2, and 1+2 speaker selector; 3-band equalizer; scan; headphone jack. Amp: THD 0.03%; IMD 0.03%; FR 20-20,000 Hz +0/-0.5 dB; SN 100 dB. Tuner: S/N 75 dB stereo; FR 20-15,000 Hz  $\pm$  0.5 dB stereo; THD 0.1% at 1,000 Hz; Front panel brushed black anodize with gold anodize trim; side panels are machined solid walnut with satin laquer finish; 18.25 x 5.25 x 15.5 in. .... \$1,798

## MARANTZ

### SR3600BL 120-W/ch Receiver

Receiver with Dolby Surround Sound. Features quartz-locked digital synthesis tuning; manual scan; 5-band EQ; remote control; 40 AM/FM presets; preset scan; VCR to VCR dubbing; 3 band tone control; speaker A/B switch; center channel output ... \$879

### SR3500BL 110-W/ch Receiver

Receiver with 40 AM/FM station presets. Features quartz-locked digital synthesis tuning; manual scan; 5-band EQ; preset scan; VCR to VCR dubbing; 3 band tone control; speaker A/B switch; cable FM input; MMMC phono input selector; matrix sound ... \$749

### TA-170AV 165-W/ch Receiver

Receiver with 16-preset digital tuning. Features 5-band graphic equalizer; quartz-locked digital synthesis tuning; electronic volume; VCR to VCR dubbing; power meter; inputs for MM phono, tape, CD player; alt-ch sel 50 dB; 50-dB quieting sens, mono 15 dBf, stereo 37 dBf; max S/N 68 dB; THD stereo 0.3%; sep 42 dB; capture ratio 1 dB. 16.5 x 7.25 x 13 in; 34 lb \$650

### TA-135AV 130-W/ch Receiver

Receiver with 16-preset digital tuning. Features remote control; 5-band graphic equalizer; electronic volume; VCR to VCR dubbing; power meters; inputs for MM phono, tape, CD player; alt-ch sel 50 dB; 50-dB quieting sens, mono 15 dBf, stereo 37 dBf; max S/N 68 dB; THD stereo 0.3%; sep 42 dB; capture ratio 1 dB. 16.5 x 7.25 x 13 in; 30 lb ..... \$570

### TA-100 100-W/ch Receiver

AM/FM receiver with 16 presets. Features remote control; 5-band EQ; quartz-locked digital synthesis tuning; inputs for MM, phono, tape, CD, 2 video sources; VCR to VCR dubbing; 100 W/ch; 0.1% THD. 16.62 x 5.87 x 12.62 in; 23.7 lb ..... \$500

### SR3300BL 60-W/ch Receiver

Receiver with 32 AM/FM presets. Features VCR to VCR dubbing; 3 band tone control; speaker A/B switch; audio/video integration; matrix sound. .... \$449

### SR3200BL 35-W/ch Receiver

Features 16 AM/FM station presets. Features triple tone control; digital tuning; tape monitor; speaker A/B switch ..... \$329

### SR-560 45-W/ch Stereo Receiver

Features 16 preset digital tuning; 7 band EQ; inputs for MM phono, tape, CD, 2 video sources; VCR to VCR dubbing; 0.3% THD; 11.2 dBf IHF sens. 16.5 x 3.62 x 10 in; 11.9 lb ..... \$250

### SR-360 25-W/ch Stereo Receiver

Features 5-band equalizer; 16 preset tuning; inputs for MM phono, tape, CD; 0.3% THD. 16.5 x 3.62 x 10 in; 9.7 lb ..... \$200

## MITSUBISHI

### M-AV1 125-W/ch Audio/Video Receiver

A/V receiver with 125-W/ch features 25-W/ch Dolby Surround Matrix surround; remote control; motorized volume control; bass and treble controls; tone defeat; audio mute; preamp loudness; subsonic filter; high-cut filter; record selector; 16 presets with menu-

# RECEIVERS

switching; on-screen displays of all functions; adjustable LCD display; preset scan; FM muting; headphone jack; 4 audio/video equipment inputs; 3 audio equipment inputs; 2 audio tape outputs; 1 video tape output; monitor outputs; pre-amp loop; THD 0.05%. . . . . \$1,000

## M-AV2 80-W/ch Audio/Video Receiver

A/V receiver with 80-W/ch features Dolby Surround Matrix surround; remote control; motorized volume control; bass and treble controls; tone defeat; audio mute; preamp loudness; subsonic filter; high-cut filter; record selector; 16 presets; preset scan; FM muting; headphone jack; 4 audio/video equipment inputs; 3 audio tape outputs; 1 video tape output; monitor outputs; pre-amp loop; THD 0.05%. . . . . \$800

## M-AV3 80-W/ch Audio/Video Receiver

A/V receiver with 80-W/ch features Dolby Surround Matrix surround; remote control; motorized volume control; bass and treble controls; tone defeat; audio mute; preamp loudness; subsonic filter; high-cut filter; 16 presets; preset scan; FM muting; headphone jack; 4 audio/video equipment inputs; 2 audio tape outputs; 1 video tape output; monitor outputs; THD 0.05%. . . . . \$600

## NAD

### 7600 Monitor Series AM/FM Receiver

Wireless remote control; 150 W/ch; power envelope circuitry; +6 dB dynamic headroom; bridgeable; high current output stage; high resolution phono pre-amp; MC pre-pre-amp; bass EQ semi-parametric tone controls; wide/narrow IF mode; speaker imp selector; close tracking Soft Clipping; rack mountable. . . . . \$1598

### 7400 Monitor Series AM/FM Receiver

14 pre-sets; 100 W/ch stereo receiver; power envelope circuitry; +6.2 dB dynamic headroom; motorized volume; MM/MC switch on discrete 4 transistor phono pre-amp; bridgeable; pre-amp out/main in; rack mountable. . . . . \$1098

### 7100 Monitor Series AM/FM Receiver

14 pre-sets; 50 W/ch stereo receiver; power envelope circuitry; +6.6 dB dynamic headroom; MM/MC switch on discrete 4 transistor phono pre-amp; bridgeable; pre-amp out/main in; rack mountable. . . . . \$748

### 7240PE AM/FM Receiver

40 W/ch; +6 dB dynamic headroom; speaker imp selector; Soft Clipping circuit; Bass EQ high current output stage; low noise phono pre-amp. . . . . \$498

### 7225PE AM/FM Receiver

20 W/ch; +4 dB dynamic headroom; power envelope circuitry; pre-amp out/main in; 5-way speaker binding posts; Soft Clipping circuit. . . . . \$348

### 7020e AM/FM Receiver

20 W/ch; high current output stage; Soft Clipping circuit. . . . . \$278

## NAKAMICHI

### SR-4A AM/FM Stereo Receiver

Stereo receiver with Stasis power amp, multi-regulated power supply, extensive video switching. Inputs for MM phono, MC phono, tape, CD player, video sound source; VCR/laser disc. 60 continuous average W/ch from 20-20,000 Hz with no more than 0.1% THD into 8 ohms; dynamic headroom 1.3 dB; 200-ms



dynamic power 80 W. FM 50-dB quieting sens stereo 37.5 dBf; S/N 74 dBA at 65 dBf; THD stereo 0.07%; capture ratio 1.5 dB; AM rejection 60 dB; alt-ch sel 60 dB. 16.94 x 3.94 x 19.56 in; 22 lb, 4 oz. . . . . \$995

### SR-3A AM/FM Stereo Receiver

Stereo receiver with Stasis power amp, multi-regulated power supply, defeatable subsonic filter. Inputs for MM phono, MC phono, tape, CD player, video sound source; 2 video sources. 45 continuous average W/ch from 20-20,000 Hz with no more than 0.1% THD into 8 ohms; dynamic headroom 1.5 dB; 200-ms dynamic power 64 watts. FM 50-dB quieting sens stereo 37.5 dBf; S/N 74 dBA at 65 dBf; THD stereo 0.07%; capture ratio 2 dB; AM rejection 60 dB; alt-ch sel 55 dB. 16.94 x 3.94 x 14.56 in; 18 lb, 12 oz. . . . . \$695

### SR-2A AM/FM Stereo Receiver

Stereo receiver with Stasis power amp, multi-regulated power supply. Inputs for MM phono, tape, CD player. 30 continuous average W/ch from 20-20,000 Hz with no more than 0.1% THD into 8 ohms; dynamic headroom 1.7 dB; 200-ms dynamic power 45 watts. FM 50-dB quieting sens stereo 37.5 dBf; S/N 74 dBA at 65 dBf; THD stereo 0.07%; capture ratio 2 dB; AM rejection 60 dB; alt-ch sel 55 dB. 16.94 x 3.94 x 14.56 in; 16 lb, 9 oz. . . . . \$449

### TA-1A Tuner Amplifier

Features 35 W continuous average output; <0.10% THD into 8 ohms; MM phono overload 150 mV; MM phono S/N > 78 dB; 10 AM/FM presets; sens 12 dBf; signal strength for 50 dB quieting; multi-regulated power supply; 5 audio inputs; separate bass and treble controls; loudness control; fixed 6 dB per octave subsonic filter; MOSFET vari-acp tuner; auto-seek a manual tuning; 2 switched AC convenience outlets. . . . . \$329

## NEC

### AVR-1010 Audio/Video Receiver

AM/FM receiver with built-in Dolby and matrix surround-sound processors. Features unified remote control with LCD readout that can operate other NEC audio and video components; four built-in power amps (one for each front and rear ch); quartz-PLL digital-synthesis tuning; 16 AM/FM station presets; preset scan; FM mute; selectable wide/narrow IF bandwidth; 3 volume level/channel balance presets; computer-controlled volume and input selection; audio mute; a master volume control; front/rear volume control; front-left, front-right, rear-left, and rear-right volume controls; rear and front bass/treble controls; digital delay; headphone jack; tape monitor; mono output. Inputs for phono, CD player, tape deck, AUX, TV, and VCR. Tuner section: FM usable sens 10.8 dBf (0.95  $\mu$ V); FM S/N 74 dB stereo. Amp section: 100 W/ch into 8 ohms from 20-20,000 Hz with 0.02% THD (front), 50 W/ch into 8 ohms (rear). 17 x 5.5 x 17 in; 35 lb. . . . . \$899



### AVR-710 Audio/Video Receiver

AM/FM receiver with built-in Dolby and matrix surround-sound processors. Features unified remote control that can operate other NEC audio and video components; four built-in power amps (one for each front and rear ch); quartz-PLL digital-synthesis tuning; 16 AM/FM station presets; preset scan; FM mute; 3 volume level/channel balance presets; computer-

controlled volume and input selection; audio mute; a master volume control; front/rear volume control; front-left, front-right, rear-left, and rear-right volume controls; rear and front bass/treble controls. Inputs for phono, CD player, tape deck, AUX, TV, and VCR. Tuner section: FM usable sens 13.2 dBf (2.5  $\mu$ V); FM S/N 72 dB stereo. Amp section: 70 W/ch into 8 ohms from 20-20,000 Hz with 0.02% THD (front), 35 W/ch into 8 ohms (rear). 17 x 5.5 x 17 in; 33 lb. . . . . \$699

### R-510 Audio/Video Receiver

Remote-controlled AM/FM receiver with 16 AM/FM station presets. 50 W/ch into 8 ohms with 0.02% THD. . . . . \$499

## NIKKO AUDIO

### AVR-65 Audio/Video Receiver

Remote-controlled AM/FM, UHF, CATV stereo receiver with built-in MTS/SAP decoder and 139-channel tuning. Features quartz-locked tuner; 2 video inputs/outputs; 10 AM/10 FM presets. 65 W/ch into 8 ohms with 0.05% THD; FR 20-20,000 Hz. S/N 65 dB. . . . . \$900

### NR-1050R Audio/Video Receiver

Remote-controlled receiver with 100 W/ch; 2 tape inputs; 20 station presets; bi-directional dubbing; L/R mic; L/R line; 4-band graphic EQ. . . . . \$599  
NR-850R. Same as above with 65 W/ch. . . . . \$519

### R-550 Receiver

55 W/ch at 8 ohms; 1.63 dB dynamic headroom with 10-100,000 Hz per bandwidth; 10 AM/10 FM presets; 6-inputs; processor select system; 2 video/image input/output terminals provide bi-directional dubbing; auto record out allows any source to be automatically routed to all four outputs; THD.04%; FR 20-20,000 Hz/CD input; S/N 80 dB; sep 51 dB; channel sel 75.8 dB. . . . . \$450



R-400. Identical to R-550 except for processor feature and single direction video dubbing. . . . . \$350

## ONKYO

### TX-SV7 Audio/Video Receiver

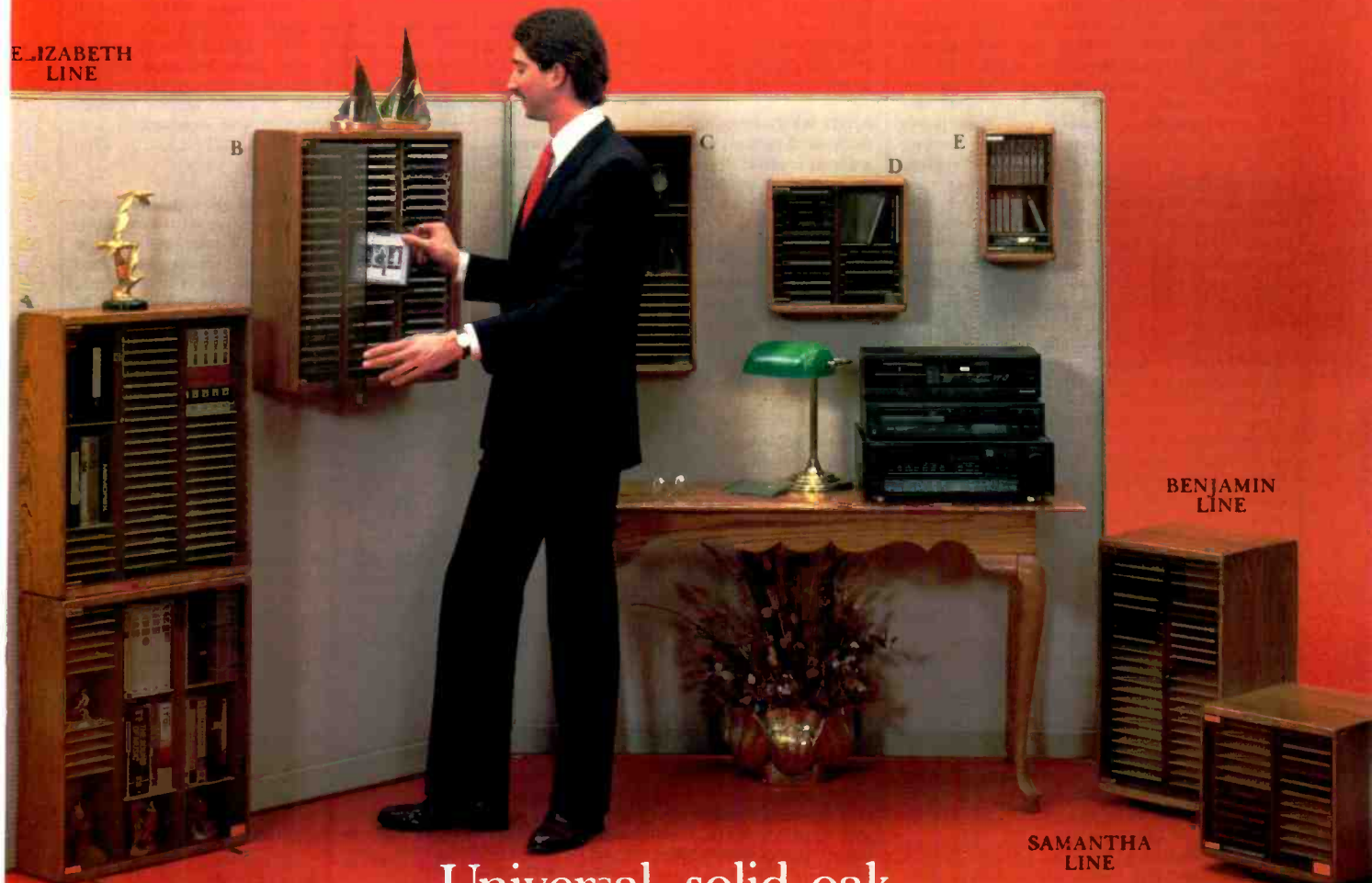
Audio/video AM/FM receiver with Onkyo's RV-AV7M universal remote control to operate receiver plus a variety of other audio and video components. Features built-in MTS decoder for stereo broadcasts; built-in surround-sound processor with Dolby, matrix, and hall surround sound; simulated stereo; 12 AM/FM station presets; FM mute; inputs for 4 speakers; bass, treble, and balance controls. Inputs for CD player, phono; VDP, VCR, tape 1, and tape 2. 100 W/ch, 75 W/ch (front) and 25 W/ch (rear) in surround mode. . . . . \$1,000

### Integra TX-108 AM/FM Receiver

Computer-controlled AM/FM receiver with full-function wireless remote control that can also operate selected Onkyo turntables, tape decks, and CD players. Automatic precision reception system controls stereo/mono, local/DX, high-blend on/off, and NR on/off functions. Features real-phase power supply; dynamic bass expander; dynamic transient expander; simulated stereo; preset memory scan; motorized volume control; FM/video simulcast capability. Inputs for MM and MC phono; tape; tape 2; CD player; video sound source; VCR; VDP. Amp section: 100 continuous average W/ch from 20-20,000 Hz into 8 ohms with <0.02% THD. FM section: 50-dB quieting sens 40  $\mu$ V (37.2 dBf) stereo; capture ratio 1.3 dB; alt-ch sel 70 dB. 18.88 x 5.88 x 18.12 in; 33 lb. . . . . \$900



Introducing the one and only . . .



Universal, solid oak,  
adjustable storage cabinet.

For Compact Disc, Computer, Video, Cassette and D.A.T. all in one unit!

Jewels stored vertically or horizontally to your own impeccable taste, our rich colored Ivory shelves are removable to adapt to **any** collection. Our rotating Benjamin and Samantha line allows for multi-storage in tight quarters. The Elizabeth line is stackable, wall mounted or desk top suitable. All cabinets available in choice of 5 colors.

**ELIZABETH LINE**

- A. Holds 308 jewels vertically, 276 stored horizontally measures 6<sup>3</sup>/<sub>4</sub>" x 20<sup>1</sup>/<sub>4</sub>" x 48" \$298<sup>000</sup>
- B. Holds 154 Jewels vertically, 138 stored horizontally measures 6<sup>3</sup>/<sub>4</sub>" x 20<sup>1</sup>/<sub>4</sub>" x 24" \$149<sup>000</sup>
- C. Holds 102 Jewels vertically, 90 stored horizontally measures 6<sup>3</sup>/<sub>4</sub>" x 13<sup>3</sup>/<sub>4</sub>" x 24" \$119<sup>000</sup>
- D. Holds 52 Jewels vertically, 46 stored horizontally measures 6<sup>3</sup>/<sub>4</sub>" x 13<sup>3</sup>/<sub>4</sub>" x 13<sup>1</sup>/<sub>4</sub>" \$69<sup>000</sup>
- E. Holds 24 Jewels vertically, 22 stored horizontally measures 6<sup>3</sup>/<sub>4</sub>" x 7<sup>1</sup>/<sub>4</sub>" x 13<sup>1</sup>/<sub>4</sub>" \$39<sup>000</sup>

**BENJAMIN LINE**

- Stores 204 Jewels vertically, 180 stored horizontally measures 13<sup>3</sup>/<sub>4</sub>" x 13<sup>3</sup>/<sub>4</sub>" x 25" \$229<sup>000</sup>

**SAMANTHA LINE**

- Stores 104 Jewels vertically, 92 stored horizontally measures 13<sup>3</sup>/<sub>4</sub>" x 13<sup>3</sup>/<sub>4</sub>" x 14<sup>1</sup>/<sub>4</sub>" \$129<sup>000</sup>

- Finger touch bronze glass doors
- Acrylite adjustable shelves
- Solid brass hardware
- 100% solid oak casing
- 1 year warranty
- Satisfaction Guaranteed



*"Free Shipping"*  
on 2 or more cabinets  
CIRCLE NO. 72 ON READER SERVICE CARD

Call 1-800-458-1312 for easy ordering!



Call or write for further information  
147 Columbia Avenue • Holland, MI 49423

# RECEIVERS

## Integra TX-88 AM/FM Receiver

Computer-controlled AM/FM receiver with full-function wireless remote control that also operates selected Onkyo turntables, tape decks, and CD players. Automatic precision reception system controls stereo/mono, local/DX, high-blend on/off, and NR on/off functions. Features real-phase power supply; dynamic bass expander; simulated stereo; preset memory scan; motorized volume control; FM/video simulcast capability. Inputs for MM phono; tape; tape 2; CD player; video sound source; VCR; VDP. Amp section: 80 continuous average W/ch from 20-20,000 Hz into 8 ohms with <0.025% THD. FM section: 50-dB quieting sens 40  $\mu$ V (37.2 dBf) stereo; capture ratio 1.5 dB; alt-ch sel 70 dB. . . . \$730  
**CW-X88.** Optional woodgrain side panels for TX-88. . . . \$65/pr

## TX-850 AM/FM Receiver

Stereo receiver with 68 W/ch rms. Features 160 W/ch dynamic output into 2 ohms; low impedance drive discrete output section; 4-mode APR tuner; 20-station random memory with battery-free backup; selective tone control; CD direct input; stereo image expander; dynamic bass expander; sleep time function; integrated system remote capability with supplied controller. Amp: FR 20-30,000 Hz  $\pm$  1 dB. Tuner: capture ratio 1.5 dB; S/N 67 dB stereo; THD 0.25% stereo. \$500  
**TX-850M.** As above with system remote. . . . \$550

## TX-830 AM/FM Receiver

Stereo receiver with 58 W/ch rms. Features 150 W/ch dynamic output into 2 ohms; low impedance drive discrete output section; 3-mode APR tuner; 20-station random memory with battery-free backup; selective tone control; CD direct input; simulated stereo; sleep time function; integrated system remote capability with supplied controller. Amp: FR 20-30,000 Hz  $\pm$  1 dB. Tuner: capture ratio 1.5 dB; S/N 67 dB stereo; THD 0.3% stereo. . . . \$400  
**TX-830M.** As above with system remote. . . . \$450

## TX-810 AM/FM Receiver

Stereo receiver with 45 W/ch rms. Features 58 W/ch dynamic output into 2 ohms; low impedance drive discrete output section; 2-mode APR tuner; 16-station random memory with battery-free backup; selective tone control. . . . \$310

## TX-80 AM/FM Receiver

Remote-controlled AM/FM receiver with a computer-controlled automatic precision reception system to control the stereo/mono and local/DX functions. Features electronic feather-touch input selectors; direct tone controls; 16 AM/FM station presets. Inputs for MM phono, CD player, tape 1/video sound, tape 2. Amp section: 33 W/ch min rms into 8 ohms from 20-20,000 Hz with no more than 0.3% THD; FR 20-30,000 Hz  $\pm$  1 dB. FM section: usable sens 19.2 dBf (5  $\mu$ V) stereo; 50-dB quieting sens 38.2 dBf (45  $\mu$ V) stereo; capture ratio 1.5 dB. 17.12 x 3.88 x 12.5 in; 16.5 lb. . . . \$250

## PARASOUND

### R/HD Receiver Series

All Parasound R/HD receivers feature CMOS electronic logic switching; high current/high speed discrete outputs; high speed linear phono gain stage; oversized power supply; preamplifier output jacks; LED function indicators; separate CD and video inputs; A/B speaker pairs, separately switched; mono mode select; all-metal chassis and panel; 3-AC convenience outlets; headphone jack.

### R/HD-900R Receiver

Full feature, wireless remote control receiver. Features motor driven analog vol control; 16 station presets, 8 AM/8 FM; separate low and high filters; separate record output selector; 2-way tape dubbing; external processor loop jacks; relay protection; THD <0.2%; dynamic headroom 1.5 dB; FR 20-20,000 Hz  $\pm$  1 dB; S/N 90 dB; 17.25 x 4 x 1.25 in. . . . \$585

### R/HD-600 Receiver

Features 16 station presets, 8 AM/8FM; variable loudness contour; 2-tape monitors; relay protection; THD <0.2%; dynamic headroom 1.5 dB; FR 20-20,000 Hz  $\pm$  1 dB; S/N 90 dB; 17.25 x 4 x 1.25 in. \$400

### R/HD-300 Receiver

Features 12 station presets, 6 AM/6 FM; switchable loudness contour; single tape monitor; THD <0.2%; dynamic headroom 1.5 dB; FR 20-20,000 Hz  $\pm$  1 dB; S/N 90 dB; 17.25 x 3.06 x 9.75 in. . . . \$300

## PHILIPS

### FR 980 Audio/Video Surround Sound Receiver

Built-in Dolby Surround decoding and amplification; front channels rated 125 watts; 15 watts rear channels; dynamic power of 180 watts, 290 watts; Surround mode switch features matrix, spatial, stereo, mono; 7 band graphic equalizer with programmable acoustic memory; 50-key universal audio/video remote with LCD display; motor-driven rotary volume control for both channels; digitally synthesized AM/FM tuner with 19 presets; video split screen with video noise reduction; Record Selector provides parallel recording capability; MM or MC phono settings; ambient control switch; 9 audio inputs; 4 audio outputs; 4 video inputs; 3 video outputs; AM and FM antennas; headphone outlet; function display; pre-set Scanning function for AM/FM tuner; re-modulator output jack for optional re-modulator. S/N ratio 75 dB; THD 0.1%; video input sens 1 v p-p/75 ohms. 4.4 x 16.8 x 15.2 in; 35 lb. . . . \$999

### FR 880 Audio/Video Surround Sound Receiver

Built-in Dolby Surround decoding and amplification; front channels rated 75 watts; 15 watts rear channels; dynamic power of 110 watts, 175 watts, 190 watts; Surround mode switch features matrix, spatial, stereo, mono; 44-key universal audio/video remote with LCD display; motor-driven rotary volume control for both channels; digitally synthesized AM/FM tuner with 19 presets; 9 audio inputs; 4 audio outputs; 4 video inputs; 3 video outputs; AM and FM antennas; headphone outlet; function display; pre-set Scanning function for AM/FM tuner; re-modulator output jack for optional re-modulator. S/N ratio 75 dB; THD 0.1%; video input sens 1 v p-p/75 ohms. 4.4 x 16.8 x 15.2 in; 25 lb. . . . \$649

## PIONEER

### VSX-9300S A/V Receiver

A/V receiver with Dolby Pro Logic surround processor and digital delay. Features type III non-switching amp rated at 125 W front x 30 W rear; motor-driven volume control; 4 audio inputs; video adaptor loop; 4 video inputs; stadium sound; simulated surround



sound; FL display; programmable remote control; video enhancer with split-screen monitoring; VCR noise filter; 5-position remote-operated acoustic tonal setting memory; pre-outs and main input terminals; 30 AM/FM presets; memory scan; manual, automatic, and direct-access tuning; HITS (Hyper Intelligent Tuning System) enables memory display by radio call letter and categories. . . . \$935

### VSX-7300 A/V Receiver

A/V receiver with Dolby Pro Logic surround processor and digital delay. Features type III non-switching amp rated at 125 W front x 30 W rear; 4 audio inputs;

video adaptor loop; 4 video inputs; stadium sound; simulated surround sound; FL display; programmable remote control; video enhancer with split-screen monitoring; VCR noise filter; 5-position remote-operated acoustic tonal setting memory; pre-outs and main input terminals; 30 AM/FM presets; memory scan; manual, automatic, and direct-access tuning. . . . \$760

### VSX-5300 A/V Receiver

A/V receiver with Dolby Pro Logic surround processor and digital delay. Features type III non-switching amp rated at 100 W front x 15 W rear; 3 audio inputs; 3 video inputs; stadium sound; simulated surround sound; FL display; programmable remote control; video enhancer with split-screen monitoring; 30 AM/FM presets. . . . \$635

### VSX-3300S A/V Receiver

A/V receiver with Dolby Pro Logic surround processor and digital delay. Features type III non-switching amp rated at 80 W/ch; 3 audio inputs; 3 video inputs; 5-band graphic EQ; FL display; programmable remote control; video enhancer with split-screen monitoring; 24 AM/FM presets. . . . \$635  
**VSX-3300.** As above with normal Pioneer SR remote control. . . . \$395

### SX-2300 AM/FM Receiver

AM/FM receiver with quartz-synthesized tuning and 60 W/ch. Features speaker matrix sound; simulated stereo for mono sources; 24 AM/FM presets; memory scan; auto tuning; 5-band graphic EQ; A/B speaker selector; FL display; microcomputer control; 5 audio inputs. Imp 8 ohms; FR 20-20,000 Hz; THD 0.07%. . . . \$250

### SX-1300 AM/FM Receiver

AM/FM receiver with quartz-synthesized tuning and 40 W/ch. Features 24 AM/FM presets; memory scan; auto tuning; 5-band graphic EQ; A/B speaker selector; FL display; microcomputer control; 5 audio inputs. Imp 8 ohms; FR 20-20,000 Hz; THD 0.07%. . . . \$210

## PROTON

### D940 AM/FM Receiver

Receiver with Dynamic Power on Demand (DPD) circuitry and Schotz NR. Features high dynamic power capabilities (rating 8/4/2 ohms to 160/280/380 W/ch); 4-gang FM front end; 2-gang AM front end; selectable phono section for MM and MC phono; speaker EQ; separate low-noise MC amp; active volume control; infrasonic filter. Inputs for MM, MC phono; phono 2; tape; AUX; extra AUX; CD; video sound source. Amp section: 40 continuous average W/ch from 20-20,000 Hz with less than 0.02% THD into 8 ohms; dynamic headroom 6 dB; IHF IMD 0.008%; FR 20-20,000 Hz  $\pm$  0.2 dB. FM section: alt-ch sel 55 dB; adj-ch sel 90 dB; 50-dB quieting sens 33.2 dBf stereo; S/N 70 dB stereo; THD stereo 0.2%; sep 45 dB at 1,000 Hz; capture ratio 1.5 dB. 16.5 x 4 x 10.12 in; 20 lb. . . . \$489

### AV-300 AM/FM Receiver

Digitally synthesized stereo receiver. Features Schotz PLL detector. Inputs for MM phono, tape, AUX, video sound source. Remote control optional. 30 continuous average W/ch from 20-20,000 Hz with <0.02% THD into 8 ohms; includes Dynamic Power on Demand which boosts dynamic power to 120 W (8 ohms) with 6 dB dynamic headroom; IHF IMD 0.015%; FR 17-35,000 Hz  $\pm$  1 dB. FM section; 50-dB quieting sens, stereo, 2.8  $\mu$ V; max S/N, A-wtd, stereo 70 dB; THD stereo 0.2%; sep 50 dB at 1,000 Hz; capture ratio 1.5 dB. AM section; sens 300  $\mu$ V/m \$459

## RCA

### MPI200 Audio/Video Preamp Tuner

Dimensia A/V control center with unified remote control and on-screen status indication when used with Dimensia monitor lets you select inputs from up





# For the Changing Times

## The New 6-Disc Realistic® CD Changer

Now there's a more convenient way to enjoy the best in sound—the new compact disc *changer* from Radio Shack. You can load up to six discs in its magazine, set back, and enjoy hours of superb digital stereo. Or, program up to 32 selections from the six discs to play in any sequence. Either way, you can pause, replay, program and search, using the wireless infrared remote control.

The large LED display simplifies remote operation. Manual and automatic search make it easy to find selections.

This high-performance changer has a heavily cushioned deck mechanism and Tri-Spot laser pickup system for accurate tracking. Two-times oversampling provides superior sound. And Radio Shack stocks

extra magazines so you can protect all of your CDs and have them loaded in your preferred order, ready for play anytime.

Come in and try the Realistic CD-6000. It's affordably priced at only \$359.95—so you can enjoy the convenience of a changer for less than the price of some single-disc players. Sold only at Radio Shack. Low as \$18 per month\*.



# Radio Shack®

## The Technology Store™

A DIVISION OF TANDY CORPORATION

Prices apply at participating Radio Shack stores and dealers. • Radio Shack Value Plus® Revolving Credit. Actual payment may vary depending upon account balance.

# RECEIVERS

to 13 Dimensia components and 5 nonsystem components. Features automatic input selection; remote control volume, mute, direct access and station scan, and off/on; SystemLink cabling; simultaneous recording and playback; auto status indication; auto switching; quartz-PLL synthesis tuning; 20-station random tuning memory; preset channel scanning; FM search tuning; electronic volume control; signal processing loop; preset turn-on volume; fluorescent display; muting; bass, treble, and balance controls; 4 AC convenience outlets. Tuner section: FM sens 12.2 dBf; S/N 73 dB (mono); image rejection 45 dB; sel 60 dB; sep 40 dB at 1,000 Hz; capture ratio 1.5 dB; FM FR 30-15,000 Hz. 14.63 x 4.13 x 13.38 in \$349

## REALISTIC

### AV-900 FM/AM/TV A/V Receiver

Receives VHF TV broadcasts (decodes MTS stereo and SAP), UHF broadcasts, cable-TV channels; 140-channel TV tuner; wireless remote control (needs 2 AAA batteries); video signal processing and dubbing; digital-synthesized tuner; stores 4 pairs of cable/FM channels; RF output on channel 3 or 4; baseband output for monitors. Inputs for phono, tape, CD player, two VCR's, surround-sound decoder. 35 W/ch into 8 ohms . . . . . \$600



### STA-2700 Remote-Controlled Receiver

Quartz tuning; 6 AM and 6 FM presets; search tuning; digital frequency display; 5-part LED signal-strength meter; 2-part dual output power meters; 2-way tape dubbing and 2-deck monitoring; loudness control; MPX blend; FM muting; high filter; sonic filter; function LED's; overload and overheating protection. VCR and cassette dubbing capability; 36-key multi-function integrated system remote control; connections for AM loop and indoor/outdoor FM antennas; inputs for CD, phono, tape, VCR-1, VCR-2/VDP, and processor; outputs for headphones, A, B, and A+B speakers; motorized volume control; matte-black finish; pale-blue FL display. Amp: 60 W/ch, THD <0.05%; S/N 76 dB. Tuner: FM usable sens 11.2 dBf mono; S/N 70 dB; THD <0.25%. 5 x 17 x 13.25 in; 21 lb . . . . . \$460

### RZ-3000 50-W/ch A/V Receiver

Features quartz-PLL synthesizer AM/FM stereo tuner; 30 random station presets; preset scan; station call memory; extra-large heatsink; low-impedance capability; VCR and cassette dubbing capability; 20-key multi-function integrated system remote control; connections for AM loop and indoor/outdoor FM antennas; inputs for CD, phono, tape-1, tape-2/monitor, and VCR/VDP; outputs for A, B, and A+B speakers; motorized volume control; matte-black finish; pale-blue FL display; headphone jack. Amp: 50 W/ch, THD <0.09%; S/N 76 dB. Tuner: FM usable sens 11.2 dBf mono; S/N 70 dB; THD <0.3%. 5 x 17 x 13.25 in; 21 lb. . . . . \$370

### RZ-1000 32-W/ch A/V Receiver

Features quartz-PLL synthesizer AM/FM stereo tuner; 30 random station presets; preset scan; station call memory; extra-large heatsink; low-impedance capability; connections for AM loop and indoor/outdoor Remote requires 2 AA batteries. 100 W/ch into 8 ohms . . . . . \$500

### STA-2380 Digital Synthesized Receiver

AM/FM-stereo receiver with 6 AM and 6 FM presets and IMX stereo expander to extend sound stage and improve imaging precision. Up/down scan, lock; 5 segment fluorescent signal strength meter; dual 7-step output meter MPX blend; high filter cleans up record

scratch. Drives 2 pairs of speakers; headphone jack; 2 AC outlets. Inputs for MM phono; tape; tape 2; aux; CD player. Amp section: 60 W/ch into 8 ohms, 98 W into 4 ohms. FM section: 50-dB quieting sens stereo 40  $\mu$ V (32 dBf); max stereo S/N 70 dB with 65 dBf (1,000  $\mu$ V) A-wtd; S/N 84 dB phono 100 dB aux; capture ratio 1 dB; AM rej 50 dB; alt-ch sel 70 dB \$400

### STA-117 Digital Synthesized Receiver

6 AM/6 FM presets; 300-/75-ohm FM and AM antennas; quartz digital tuning; feather-touch manual or auto tuning; 3-LED signal-strength meter; loudness control; subsonic filter. Inputs for MM phono; tape; aux; CD player. Amp section: 30 W/ch into 8 ohms; S/N 84 dB phono; FM section: 50-dB quieting sens stereo 39.8  $\mu$ V (32 dBf); max S/N with 65 dBf (1,000  $\mu$ V) A-wtd stereo 60 dB; capture ratio 1.5 dB; separation 40 dB; FM tuner 2.8  $\mu$ V AM rej 50 dB; alt-ch sel 50 dB . . . . . \$260

### STA-785 Digital Synthesized Receiver

Digital synthesized AM/FM receiver with Quartz digital tuning. Features search up or down; feather-touch controls; 6 AM/6 FM presets; FM muting; 5-LED signal-strength meter; loudness control. Inputs for MM phono; tape; aux; CD player. Amp section: 50 W/ch into 8 ohms. FM section: capture ratio 2 dB; Response 40-20,000 S/N 56 dB. 67 aux; AM rej 45 dB; alt-ch sel 50 dB. . . . . \$200

### STA-130 22-W/ch AM/FM Receiver

AM/FM 22 W/ch stereo receiver. Features PLL tuning; loudness button; FM muting; drives 2 pairs of speakers; stereo/mono switch; bass, treble, volume, balance controls; overheating and overload protection. 5-LED output power meter; Inputs for MM phono; tape; aux; CD player. Amp section: 22 W/ch into 8 ohms. FM section: capture ratio 3 dB; alt-ch sel 50 dB. . . . . \$160

### STA-19 5-W/ch Personal Receiver

AM/FM 5-W/ch personal receiver with inputs for FM, AM, phono, tape. Features Auto-Magic fine tuning; jack for mini headphones; jack for mini cassette players; special EQ switch; loudness control. 5 W/ch into 8 ohms; S/N 70 dB phono, 72 aux; IHF sens 22.3 dBf; sep at 1,000 Hz 35 dB . . . . . \$120

## REVOX

### B285 AM/FM Receiver

AM/FM stereo receiver with two microprocessors for control of input sensitivities, output levels, and operating functions. Features alphanumeric multi-mode LCD display; 29 AM or FM presets; level and reception mode (mono/stereo, blend) separately programmable for each preset station; programmable volume limit; -20 dB button; subsonic filter; loudness contour; programmable output levels for A and B speaker pairs; comprehensive speaker protection circuits; serial data bus for external control devices; wireless infrared remote control (transmitter optional). Inputs for phono, tape, CD player, tape 2. Amp section: 70 continuous average W/ch 20-20,000 Hz with no more than 0.03% THD into 8 ohms; dynamic headroom 2.5 dB; FR 20-20,000 Hz  $\pm$  0.3 dB. FM section: alternate-ch sel 96 dB; adjacent-ch sel 16 dB; 50-dB quieting sens, mono 1.6  $\mu$ V (15.2 dBf), stereo 19  $\mu$ V (36.8 dBf); max S/N, A-wtd, mono 84 dB, stereo 80 dB; THD mono 0.15%, stereo 0.3%; sep 43 dB at 1,000 Hz; capture ratio 2 dB. AM section: FR 120-3,000 Hz  $\pm$  6 dB; sens 36  $\mu$ V; 33 lb. . . . . \$2,995

## ROTEL

### RX 875 AM/FM Receiver

70 W bridgeable to 180 W AM/FM receiver. Digital tuning with 16 station presets; THD 0.03%; IMD 0.05%; S/N ratio 75 dB; inputs for video . . . . . \$599

RX 855. As above, 14 presets, 50-W/ch . . . . . \$499

### RX850A AM/FM Receiver

30-W/ch receiver with 16 random presets. Features

RT850 tuner circuitry . . . . . \$449

### RZ-3000 50-W/ch A/V Receiver

Features quartz-PLL synthesizer AM/FM stereo tuner; 30 random station presets; preset scan; station call memory; extra-large heatsink; low-impedance capability; VCR and cassette dubbing capability; 20-key multi-function integrated system remote control; connections for AM loop and indoor/outdoor FM antennas; inputs for CD, phono, tape-1, tape-2/monitor, and VCR/VDP; outputs for A, B, and A+B speakers; motorized volume control; matte-black finish; pale-blue FL display; headphone jack. Amp: 50 W/ch, THD <0.09%; S/N 76 dB. Tuner: FM usable sens 11.2 dBf mono; S/N 70 dB; THD <0.3%. 5 x 17 x 13.25 in; 21 lb. . . . . \$370

### RZ-1000 32-W/ch A/V Receiver

Features quartz-PLL synthesizer AM/FM stereo tuner; 30 random station presets; preset scan; station call memory; extra-large heatsink; low-impedance capability; connections for AM loop and indoor/outdoor FM antennas; inputs for CD, phono, tape-1, tape-2/monitor, and VCR/VDP; outputs for A, B, and A+B speakers; motorized volume control; matte-black finish; pale-blue FL display; headphone jack. Amp: 50 W/ch, THD <0.09%; S/N 76 dB. Tuner: FM usable sens 11.2 dBf mono; S/N 70 dB; THD <0.3%. 5 x 17 x 13.25 in; 21 lb. . . . . \$280

### X830 AM/FM Receiver

Stereo receiver with LED dial pointer. Features inputs for phone, tape, CD player, video sound source; amp section: 20 continuous average W/ch from 20-20,000 Hz; THD 0.08%; IHF IMD 0.08%; FR (phono) 20-15,000 Hz  $\pm$  0.3 dB; FR (tape, CD, video) 10-38,000 Hz  $\pm$  1.3 dB; FM section: alt-ch sel 65 dB; 50-dB quieting sens, mono 4  $\mu$ V (17.2 dBf), stereo 60  $\mu$ V (40.7 dBf); S/N 65 dB; capture ratio 2.0 dB. 17 x 3.88 x 13 in; 12.7 lb. . . . . \$249

## SAE

### R-102 Stereo Receiver

AM/FM stereo receiver utilizes an on-board computer to eliminate dependency between front-panel layout and audio circuits. 50 W/ch at 0.025% THD. All controls grouped by function. Features alphanumeric and digital readouts for input functions, tone, volume, balance settings, station frequency and tuner memories; 3 digital tone memories; tuner memory scan; phono power amp; high-current main power amp. . . . . \$499



## SANSUI

### S-X1200 120-W/ch AM/FM Receiver

AM/FM receiver with random presetting of 16 FM and AM stations. Features channel call and preset scan; connections for two VCR's with bidirectional dubbing; sound attacker to add sonic impact to video image; LED power meters; processor terminals; hi-blend; variable loudness; Amp section: 120 continuous average W/ch 20-20,000 Hz with no more than 0.015% THD into 8 ohms; FR 10-70,000 Hz  $\pm$  1.3 dB. FM section: 50-dB quieting sens. (Mono) 10.8 dBf; 17.31 x 5.34 x 17.12 in; black finish; 30 lb. . . \$1,000

X900. Similar to S-X1200 except 80 W/ch into 8 ohms from 20-20,000 Hz with no more than 0.02% THD . . . . . \$725

### RZ-7000 70-W/ch A/V Receiver

Features quartz-PLL synthesizer AM/FM stereo tuner; 30 random station presets; preset scan; station call memory; 5-band graphic equalizer with 5 factory-set patterns; memory for 30 user-set patterns for tuner, and 5 other user-set patterns; 3 extra-large heatsinks; low-impedance capability; VCR and cassette dubbing capability; 36-key multi-function integrated



# Without these components your stereo system will sound like dirt.



Dust, lint, even fingerprints, can make an expensive piece of stereo equipment sound like an expensive piece of junk.

Our record, tape, and CD cleaners make these troubles disappear.

Our D4+™ record care system, with its patented cleaning fluid, lifts and suspends dirt from your record and wipes it clean away.

Our tape deck cleaning cassettes work just as neatly. They not only clean your tape heads to keep your music brilliantly clear. They clean the tape path (and all the little parts inside it), so your tapes don't stick and get "eaten up."

CD's? Nothing beats our CD cleaner. It's the only one with true radial cleaning. An ingenious breakthrough that prevents streaks from running along the CD's path, muddying up your music.

Make every piece of your stereo sound great using these and our other Discwasher® products. After all, what's the use of owning a really good sound system if all you amplify are really bad sounds?



**discwasher®**  
for sparkling performances.

# RECEIVERS

system remote control; connections for AM loop and indoor/outdoor FM antennas; inputs for CD, phono, tape, VCR-1, VCR-2/VDP, and processor; outputs for headphones, A, B, and A+B speakers; motorized volume control; matte-black finish; pale-blue FL display. Amp: 70 W/ch, THD <0.02%; S/N 76 dB. Tuner: FM usable sens 11.2 dBf mono; S/N 70 dB; THD <0.2% . . . . . \$600

## RZ-5000 60-W/ch A/V Receiver

Features quartz-PLL synthesizer AM/FM stereo tuner; 30 random station presets; preset scan; station recall memory; extra-large heatsink; low-impedance capability; VCR and cassette dubbing capability; 36-key multi-function integrated system remote control; connections for AM loop and indoor/outdoor FM antennas; inputs for CD, phono, tape, VCR-1, VCR-2/VDP, and processor; outputs for headphones, A, B, and A+B speakers; motorized volume control; matte-black finish; pale-blue FL display. Amp: 60 W/ch, THD <0.05%; S/N 76 dB. Tuner: FM usable sens 11.2 dBf mono; S/N 70 dB; THD <0.25% . . . . . \$460

## SCOTT

### STA1510 Integrated Amp With Tuner

Separate integrated amp and tuner sold together; wireless remote control; 7-band graphic equalizer; LED power meters; digital station readout; gold-plated input jacks. Inputs for MM phono, tape, CD/DAT, video sound source. Amp section: 150 W/ch into 8 ohms. FM section 50 dB quieting sens stereo 10  $\mu$ V (25 dBf); max S/N 65 dB . . . . . \$550  
STA1010. As above, 110 W/ch . . . . . \$450

### RS50 AM/FM Receiver

Receiver with remote control. Features 7-band graphic equalizer; electronic volume control; power meter; loudness control; high filter; 8 AM/8 FM station presets. Inputs for MM phono, tape, CD/DAT, video sound source. Amp section: 50 W/ch into 8 ohms. FM section: usable sens 5  $\mu$ V (19.2 dBf) . . . . . \$250

### RS30 AM/FM Stereo Receiver

Quartz digital-synthesizer tuning section; power output meter; high filter; presets for 8 AM/8 FM stations. Inputs for MM phono; tape; CD/DAT. Amp section: 25 W/ch into 8 ohms. FM section: usable sens 5  $\mu$ V . . . . . \$150

## SHARP

### SA-X50AV Audio/Video Receiver

Receiver with multiple audio/video inputs and outputs. Features PLL-synthesis tuner; auto scan tuning; 12 presets; 5-band graphic equalizer; video-enhancer circuit; surround sound. Inputs for tape, CD, video sound source, video 1, video 2. Amp section: 50 continuous average W/ch from 40-20,000 Hz into 8 ohms with <0.5% THD . . . . . \$250

### SA-X35 AM/FM Receiver

Features quartz digital-synthesis tuner; 5-band graphic equalizer; auto scan tuning; loudness switch; A, B, A+B speaker selector; 6 AM/6 FM presets. Inputs for MM phono, tape, CD player. Amp section: 35 continuous average W/ch 20-20,000 Hz with no more than 0.5% THD into 8 ohms; IHF IMD 0.15%; FR 15-35,000 Hz  $\pm$  3 dB. FM section: adjacent-ch sel 56 dB; max S/N 68 dB stereo; THD 0.3% stereo; sep 32 dB at 1,000 Hz. Black or silver. 17 x 3.69 x 10.5 in; 10 lb . . . . . \$200

## SHERWOOD

### RA-1340R Dolby Surround Receiver

Receiver with full-function infrared wireless remote control. Features surround sound; 2 video inputs; video enhancer; 5-band graphic equalizer; direct switch; quartz-locked computerized tuning; 30 preset stations; preset scan; automatic tuning; dual-gate MOSFET; tape monitor; headphone jack; IMD 0.04%; S/N ratio 79 dB; FR 9-100,000 Hz; usable sens 11.2

dBf; 50 dB quieting sens 19.2 dBf; THD 0.15%; 50 dB stereo sep at 1 kHz; alt-ch sel 70 dB. 5.1 x 17.3 x 15.0 in . . . . . \$649

### RA-1240R Receiver

Receiver with full-function infrared wireless remote control. Features surround sound; video sound input; 5-band graphic equalizer; quartz-locked computerized tuning; 30 preset stations; preset scan; automatic tuning; dual-gate MOSFET; tape monitor; headphone jack; 70 W/ch; IMD 0.05%; S/N ratio 75 dB; FR 8-40,000 Hz; usable sens 11.2 dBf; 50dB quieting sens 39.2 dB; THD 0.2%; capture ratio 2 dB; alt-ch sel 60 dB. 5.1 x 17.3 x 15 in . . . . . \$489

### S-277ORCP AM/FM Receiver

Digital-synthesized AM/FM-stereo receiver with digitally controlled 7-band EQ and LED spectrum analyzer. Features 4 EQ memories; 16 station presets; video dubbing; infrared remote control; surround sound; front-panel 2-ch-audio VCR input; MOSFET input stage; inputs for tape, CD player; video sound source; amp section: 74 continuous average W/ch from 20-20,000 Hz with less than 0.3% THD into 8 ohms; capture ratio 1.5 dB; AM rejection 55 dB; alt-ch sel 70 . . . . . \$430

### S-2750CP AM/FM Receiver

AM/FM-stereo receiver with 5-band graphic EQ. Features 16 station presets; surround sound; MOSFET input stage; auto-scan tuning; quartz-PLL digital-synthesized tuning; inputs for tape, CD player, video sound source; amp section: 55 continuous average W/ch from 20-20,000 Hz with less than 0.2% THD into 8 ohms; capture ratio 2 dB; AM rejection 50 dB; alt-ch sel 65. 17.36 x 4.62 x 9.25 in; 15 lb . . . . . \$250

### S-2730CP AM/FM Receiver

AM/FM-stereo receiver with quart-PLL digital-synthesized tuning. Features 16 station presets; auto scan; surround sound; MOSFET input stage. Inputs for tape; aux; CD player; video sound source. Amp section: 35 continuous average W/ch from 20-20,000 Hz with less than 0.2% THD into 8 ohms. FM section: 50-dB quieting sens stereo 50  $\mu$ V (39.2 dBf); THD stereo 0.5%; capture ratio 2 dB; AM rejection 50 dB; alt-ch sel 65. 17.36 x 4.62 x 9.25 in; 13.5 lb . . . . . \$200

### RA-1140 Stereo Receiver

Features surround sound; video sound input; digital readout; LED peak power indicators; loudness control; quartz-locked computerized tuning; 24 preset stations; automatic tuning; dual gate MOS-FET front end; tape monitor; headphone jack. THD 0.2%; IMD 0.3%; S/N ratio; 75 dB; FR 8-40,000 Hz; usable sens 11.2 dBf; 50dB quieting sens 39.2 dBf; 4.1 x 17.0 x 15.0 in . . . . . \$189

## SONY

### STR-GX10ES A/V Receiver

Audio/video receiver with programmable Remote Commander. Features 150 W/ch continuous into 8 ohms, 20-20,000 Hz, with 0.007% THD; spontaneous twin drive power supply design; copper-plated G-Chassis design constructed with non-metallic compound; separate power supplies for system control and audio circuit stages; audio/video switching capability (3 video sources); video and tape dubbing capability; S-video terminals; defeatable subsonic filter; 3-band, low noise, high-gain negative feedback type tone controls; source direct switch; quartz frequency-synthesis tuning; wave optimized digital stereo decoder; 20 station presets. Tuner section: S/N 84 dB; THD .08%; sel 90 dB; sep (at 1,000 Hz) 60 dB . . . . . \$1,200

### STR-GX9ES A/V Receiver

Audio/video receiver with programmable Remote Commander. Features 130 W/ch continuous into 8 ohms, 20-20,000 Hz, with 0.008% THD; spontaneous twin drive power supply design; G-Chassis design constructed with non-metallic compound; separated power supplies for system control and audio circuit

stages; audio/video switching capability (3 video sources); video and tape dubbing capability; S-video terminals; defeatable subsonic filter; 3-band, low noise, high-gain negative feedback type tone controls; source direct switch; quartz frequency-synthesis tuning; wave optimized digital stereo decoder; 20 station presets. Tuner section: S/N 84 dB; THD .08%; sel 90 dB; sep (at 1,000 Hz) 60 dB . . . . . \$1,000

### STR-GX7ES A/V Receiver

Audio/Video receiver with programmable Remote Commander. Features 120 W/ch continuous into 8 ohms, 20-20,000 Hz, with 0.008% THD; spontaneous twin drive power supply design; G-chassis design constructed with non-metallic compound; separate power transformers for the system control and audio circuitry; audio/video switching capability (3 video sources); S-video terminals; low-noise, negative-feedback type tone controls; source direct switch; quartz frequency-synthesis tuning; 20 station presets. Tuner section: S/N 76 dB; THD .2%; sel 65 dB . . . . . \$750

### STR-AV1000 A/V Receiver

Audio/video receiver with programmable Remote Commander. Features 120 W/ch into 8 ohms; surround-sound capability; 7-band electronic graphic equalizer; 7-band spectrum analyzer; motorized volume control; music index; EQ Link memorizes equalizer settings for radio stations; video inputs and outputs; direct comparator tuner; dual power supplies; 20 station presets. Amp: FR 5-80,000 Hz, +0, -1 dB with .008% THD. Tuner: S/N 76 dB; THD .2%; sens 11.2 dBf/2  $\mu$ V . . . . . \$700

### STR-GX6ES A/V Receiver

Audio/Video receiver with programmable Remote Commander. Features 100 W/ch continuous into 8 ohms, 20-20,000 Hz, with 0.03% THD; spontaneous twin drive power supply design; G-chassis design constructed with non-metallic compound; separate power transformers for the system control and audio circuitry; audio/video switching capability (2 video sources); low-noise, negative-feedback type tone controls; source direct switch; quartz frequency-synthesis tuning; 20 station presets. Tuner section: S/N 76 dB; THD .2%; sel 65 dB; sep (at 1,000 Hz) 50 dB\$600

### STR-AV900 A/V Receiver

Audio/video receiver with full-function remote control. Features 100 W/ch into 8 ohms; surround-sound capability; 7-band electronic graphic equalizer; 7-band spectrum analyzer; motorized volume control; music index; video inputs and outputs; direct comparator tuner; dual power supplies; 20 station presets. Amp: FR 5-80,000 Hz, with .008% THD. Tuner: S/N 76 dB; THD .2% . . . . . \$480

### STR-GX5ES A/V Receiver

Audio/Video receiver with programmable Remote Commander. Features 80 W/ch continuous into 8 ohms, 20-20,000 Hz, with 0.08% THD; spontaneous twin drive power supply design; G-chassis design constructed with non-metallic compound; separate power transformers for the system control and audio circuitry; audio/video switching capability (1 video source); low-noise, negative-feedback type tone controls; source direct switch; quartz frequency-synthesis tuning; 20 station presets. Tuner section: S/N 76 dB; THD .2%; sel 65 dB; sep (at 1,000 Hz) 50 dB\$470

### STR-AV700 A/V Receiver

Audio/video receiver with full-function remote control. Features 70 W/ch into 8 ohms; surround-sound capability; 5-band electronic graphic equalizer; motorized volume control; music index; video inputs and outputs; direct comparator tuner; dual power supplies; 20 station presets. Amp: FR 10-70,000 Hz, +0, -1 dB with .08% THD . . . . . \$400

### STR-AV500 A/V Receiver

Audio/video receiver with full-function remote control. Features 55 W/ch into 8 ohms; surround-sound capability; 5-band electronic graphic equalizer; 20



Now that the picture on our  
big screen televisions is  
just about perfect, we decided to  
work on something else.



# SOI

*Our 35" direct-view monitor/receiver has our exclusive Diamond Vision® II picture tube and a wide band video amplifier capable of 560 lines of resolution, compared to the normal 340 lines.*

*The Home Theater System speakers have a 12" cast frame woofer, 5" midrange and a titanium dome tweeter. And individual controls let you vary the midrange and tweeter levels.*



It's not the easiest thing being perfectionists.

Just when you've developed a 35-inch television that's every bit as clear and sharp as conventional size sets, you see something else that could stand some improvement.

Or, in this case, you hear it.

Introducing Mitsubishi Home Theater Systems. Our new series of integrated components that does for sound what we've always done for sight: Make it larger than life.

Now, along with a panoramic picture, our Home Theater components can give

your favorite movies, sporting events and programs the kind of fidelity a television alone could never produce.

Thanks largely to our new M-AVI audio/video receiver. Not only does it produce a wall-shaking 125 watts of power,\* but it comes equipped with the



# AND



Our new M-AV1 audio/video receiver delivers 125 W/Ch.\* with 25 W/Ch. rear Dolby Surround™.

The connectors are gold plated, and all functions are displayed on screen in an easy-to-read menu.

Our M-C5100 CD player features 8-times oversampling and 18-bit digital analog converters.

And our M-T5100 dual cassette deck comes with both Dolby® B and C.

With horizontal resolution greater than 400 lines, our S-VHS/Hi-Fi VCR can generate an image that's 67% sharper than ordinary VCR's.

same kind of Dolby Surround™ sound you hear in theaters.

On-screen displays give you simple instructions for switching from the VCR to the CD

One remote controls everything in this ad.

player to the cassette deck and so on. And a single illuminated remote lets you control everything from the comfort of your own recliner.

For a demonstration, minus the recliner, visit an authorized Mitsubishi Home Theater Systems dealer.

And see with your own ears how great it sounds.

For the name of your authorized Mitsubishi Home Theater Systems dealer, call (800) 556-1234 ext. 145. In California, (800) 441-2345 ext. 145. Cabinet colors and finishes may vary. Dolby and Dolby Surround are trademarks of Dolby Laboratories Licensing Corp. Diamond Vision II is a registered trademark of Mitsubishi Electric Corporation. \*125 watts/channel, min. RMS, both channels driven into 8 OHMS from 20Hz - 20kHz with no more than 0.05% THD. © 1988 Mitsubishi Electric Sales America, Inc.

 **MITSUBISHI**®

CIRCLE NO. 78 ON READER SERVICE CARD

# RECEIVERS

station presets. Amp: FR 10-70,000 Hz, +0, -1 dB with .3% THD. Tuner: S/N 70 dB; THD .2%; sens 11.2 dBf/2  $\mu$ v ..... \$340

## STR-AV300 A/V Receiver

Audio/video receiver with full-function remote control. Features 40 W/ch into 8 ohms; surround-sound capability; 3-band electronic graphic equalizer; motorized volume control; video inputs and outputs; direct comparator tuner; dual power supplies; 20 presets. Amp: FR 10-50,000 Hz, +0, -1 dB with .8% THD. Tuner: S/N 70 dB; THD .2%; sens 11.2 dBf/2  $\mu$ v ..... \$270

## STR-AV200 A/V Receiver

Audio/video receiver with full-function remote control. Features 40 W/ch into 8 ohms; motorized volume control; video input and output; direct comparator tuner. Amp: FR 10-50,000 Hz, +0, -1 dB with .8% THD. Tuner: S/N 70 dB; THD .2%; sens 11.2 dBf/2  $\mu$ v ..... \$210

## TANDBERG

### TPR 3080 Programmable Receiver

Remote-controllable FM receiver with zero-feedback design and remote control. Features high current power amplifier; digital tuner with 26 presets; separate program and record source selectors. Inputs for MM and MC phono, CD, DAT, video, and tape. 80 W/ch. Rosewood side panels. .... \$2,500

## TEAC

### AG-55 Receiver

55 W/ch AM/FM receiver with LED power meters. 7-band graphic EQ; CD, AYX and TV/VCR inputs; high cut filter and bass boost EQ switch; dual speaker terminals; Quartz synthesized PLL tuner; 8 AM/FM random access station memory; auto station search; LED frequency display. FR 20-30,000 Hz; THD 0.5%; FM-usable sens. mono 11.2 dBf; image rejection 45 dB; 4.5 x 17.13 x 11.44-in; 16.43 lb ..... \$300  
AG-35. Similar to above with 35 W/ch and without graphic EQ. .... \$200

## TECHNICS

### SA-R530 100-W/ch A/V Receiver

A/V receiver with 96-key intelligent remote control and digital Dolby surround-sound processor. Features 7-band electronic graphic equalizer with 5 factory preset curves and 5 user assignable curve memories; quartz digital tuner; 24 preset channel memory and Station File preset organization system; 7-band FL spectrum analyzer; motor-driven volume control; rear-mounted thermally triggered fan; 3 A/V inputs; 6 audio inputs; video output for monitor; full-function FL display; 6 digital A/V surround modes including Dolby and stereoplex simulated stereo; auto-simulcast tuning. 100 W/ch, both channels driven into 8 ohms, with <0.007% THD from 20-20,000 Hz ..... \$695

### SA-R430 100-W/ch A/V Receiver

A/V receiver with 44-key intelligent remote control and matrix surround-sound processor. Features 7-band electronic graphic equalizer with 5 factory preset curves and 5 user assignable curve memories; quartz digital tuner; 24 preset channel memory and Station File preset organization system; 7-band FL spectrum analyzer; motor-driven volume control; 2 A/V inputs; 4 audio inputs; full-function FL display. 100 W/ch, both channels driven into 8 ohms, from <0.007% THD from 20-20,000 Hz ..... \$520

### SA-R330 70-W/ch A/V Receiver

Audio/video receiver with 42-key intelligent remote control. Features 7-band electronic graphic equalizer; quartz-locked digital tuner; 24 preset channel memory and Station File preset organization system; 7-band spectrum analyzer with fluorescent display; motor-driven volume control; 2 A/V inputs; 4 audio

inputs; video output for monitor; full-function FL display. 70 W/ch, both channels driven into 8 ohms, with <0.008% THD from 20-20,000 Hz ..... \$355

### SA-R230 50-W/ch A/V Receiver

A/V receiver with 32-key intelligent remote control. Features 5-band electronic graphic equalizer; quartz digital tuner; 24 preset channel memory and Station File preset organization system; motor-driven volume control; 2 A/V inputs; 4 audio inputs; video output for monitor; full-function FL display 50 W/ch, both channels driven into 8 ohms, with <0.09% THD from 20-20,000 Hz ..... \$290

### SA-160 40-W/ch AM/FM Receiver

Receiver rated at 40 W/ch, both channels driven into 8 ohms, from 20-20,000 Hz with < 0.5% THD. Features 5-band graphic equalizer with LED tips; quartz digital tuner with FL alphanumeric display; 24 preset channel memory and Station File preset organization system; 5 audio inputs ..... \$225

### SA-180 35-W/ch AM/FM Receiver

Features quartz digital tuning section; 16 station presets; auto scan; 3-LED signal-strength display; drives main and remote speakers; loudness; headphone jack; electronic protection. Inputs for tape deck, CD player, turntable. 35 W/ch; FM sens 11.2 dBf; FM sel 65 dB ..... \$210

## VECTOR RESEARCH

### VRX-9200R Audio/Video Receiver

120-W/ch A/V receiver with full-function remote control. Features motorized rotary volume control; built-in Dolby Surround; 4 x 40-W pre-out/main-in jacks; 8 discrete output transistors; video signal routing; A/V processing loop; video monitor output; dedicated CD input; quartz-synthesis tuning; 20 station presets; preset scan; mono/stereo switch; A/B RF antenna inputs; FM autoscans; 2 tape monitors with dubbing in either direction; 2 A/V monitors with dubbing; MC head amp; high and subsonic filters; parallel speaker switching; surround level, front/rear balance ..... \$750

### VRX-8200R Audio/Video Receiver

110-W/ch A/V receiver with full-function remote control. Features motorized rotary volume control; built-in matrix surround; pre-out/main-in jacks; 8 discrete output transistors; video signal routing; A/V processing loop; video monitor output; dedicated CD input; quartz-synthesis tuning; 20 station presets; preset scan; mono/stereo switch; A/B RF antenna inputs; FM autoscans; 2 tape monitors with dubbing in either direction; MC head amp; high and subsonic filters; parallel speaker switching ..... \$600

### VRX-6200 Audio/Video Receiver

65-W/ch A/V receiver with full-function remote control. Features motorized rotary volume control; built-in matrix surround; pre-out/main-in jacks; video signal routing; A/V processing loop; video monitor output; dedicated CD input; quartz-synthesis tuning; 16 station presets; mono/stereo switch; RF antenna inputs; FM autoscans; 2 tape monitors with dubbing; loudness contour; parallel speaker switching ..... \$450

### VRX-5200R A/V Receiver

50 W/ch A/V receiver with discrete output stage. Features 20 random AM/FM presets; dedicated CD inputs; A/V processing loop; 2 switched/unswitched outlets; separate FM mute and mono; video monitor out; quartz-synthesized tuning; rotary volume control with LED; pre-out main-in jack; video signal routing; 75 ohm connector; AM/FM autoscans. Amp: THD 0.07%; IMD 0.07%; FR 10-50,000 Hz. Tuner: S/N 70 dB; THD 0.35%; FR 50-15,000 Hz; sep 42 dB. 17 x 4.5 x 13.5 in; 17 lb ..... \$370

### VRX-3600R A/V Receiver

40 W/ch A/V receiver with discrete output stage.

Features 20 random AM/FM presets; dedicated CD inputs; A/V processing loop; 2 switched/unswitched outlets; separate FM mute and mono; video monitor out; quartz-synthesized tuning; rotary volume control with LED; pre-out main-in jack; video signal routing; 75 ohm connector; AM/FM autoscans. Amp: THD 0.08%; IMD 0.08%; FR 10-50,000 Hz. Tuner: S/N 68 dB; THD 0.4%; FR 50-15,000 Hz; sep 42 dB. 17 x 4.5 x 13.5 in; 15 lb ..... \$320

### VRX-2700 A/V Receiver

30 W/ch A/V receiver with discrete output stage. Features 20 random AM/FM presets; dedicated CD inputs; A/V processing loop; 2 switched/unswitched outlets; separate FM mute and mono; video monitor out; quartz-synthesized tuning; rotary volume control with LED; pre-out main-in jack; video signal routing; 75 ohm connector; AM/FM autoscans. Amp: THD 0.09%; IMD 0.09%; FR 10-50,000 Hz. Tuner: S/N 68 dB; THD 0.5%; FR 50-15,000 Hz; sep 40 dB. 17 x 4.5 x 13.5 in; 13 lb ..... \$199

### VR-2300 Receiver

25-W/ch receiver features A/B speaker switching; analog flywheel tuning; loudness contour; headphone jack; tape monitor. Inputs for CD and MM phono ..... \$150

## YAMAHA

### RX-1100U Audio/Video Receiver

AM/FM receiver with integrated system remote control. Features digital tuner; absolute linear amplification; high dynamic power; low-impedance drive capability; 16-station random access preset tuning; digital fine tuning; continuously variable loudness control; dual tape monitor inputs; pre-main coupling terminals; 3 video source inputs; video and audio record out selectors; video enhancer with level and detail control; switching for three pairs of speakers; LED indicator on volume knob. 125 W/ch min rms into 8 ohms from 20-20,000 Hz with less than 0.015% THD. Black finish; 30 lb ..... \$999

### RX-900U Audio/Video Receiver

AM/FM receiver with integrated system remote control. Features digital tuner; absolute linear amplification; high dynamic power; low-impedance drive capability; 16-station random access preset tuning; digital fine tuning; continuously variable loudness control; pre-main coupling terminals; 3 video source inputs; video and audio record out selectors; video enhancer with level and detail control; switching for two pairs of speakers. 85 W/ch min rms into 8 ohms from 20-20,000 Hz with less than 0.015% THD. Black finish; 29 lb ..... \$799

### RX-700U Audio/Video Receiver

AM/FM receiver with integrated system remote control. Features digital tuner; low-impedance drive capability; 16-station random access preset tuning; two video source inputs; video and audio record out selectors; video enhancer with level control; 65 W/ch min rms; THD less than 0.015%; black finish. 17 lb ..... \$599

### RX-500U AM/FM Receiver

AM/FM receiver with wireless remote control. Features digital tuner; high dynamic power; low-impedance drive capability; continuously variable loudness control; switching for two pairs of speakers. 50 W/ch minimum rms into 8 ohms from 20-20,000 Hz with less than 0.015% total harmonic distortion. Black finish; 15 pounds ..... \$399

### RX-300U AM/FM Receiver

Features digital tuner; high dynamic power; low-impedance drive capability; 16-station random access preset tuning; 10-segment signal-strength meter; tape monitor selector; dynamic bass extension control; continuously variable loudness control. 37 W/ch min rms into 8 ohms from 20-20,000 Hz with less than 0.015% THD. Black finish; 15 lb ..... \$299



# POWER AMPLIFIERS



## ACCUPHASE BY MADRIGAL

### P-600 Stereo Power Amplifier

7 parallel push-pull output stage with MOSFET pre-driver incorporating push-pull circuitry in all stages; digital peak power display; bridge connection switch; 1-dB-per-step input-level control. Drives 2-ohm speaker with guaranteed output of 700 W/ch. 300 W/ch into 8 ohms; 1,000 W into 8 ohms bridged; damping factor 300 IHF 50 Hz; S/N <125 dB IHF-A; rated input 2 V; 18.94 x 9.19 x 18.75 in. . . . \$7,000

### MI-1000 Power Amplifier

Two separate power units with push-pull drive in bridged connection, each power unit employs 14 parallel push-pull pairs of wide-band transistors; low imp drive of 1,600 W into 1 ohm, 1,100 W into 2 ohms; cascode push-pull and MOSFET drive stage; digital power meter; 40-kilohm balanced input; 20 kilohm unbalanced phono jack; mounting provisions for cooling fans; distortion of 0.05% at 1-4 ohms, 0.01% at 4-16 ohms; 18.94 x 9.41 x 19.25 in; 121.4 lb. . . . . \$9,500

### P-500 Stereo Power Amplifier

Basic amp with power meters; bridge connection allows 1,000 W mono into 4 ohms, 500 W/ch into 2 ohms. 250 W/ch into 8 ohms; 19 x 8.6 x 17.5 in; 73.7 lb. . . . . \$6,000

### P-300V 180-W/ch Power Amplifier

With power meters. 180 W/ch into 8 ohms; bridgeable for 500 W into 8 ohms, 300 W into 2 ohms; 17.5 x 6.4 x 14.7 in; 50.6 lb. . . . . \$4,250

## ACOUSTIC RESEARCH

### AR P-10 Power Amplifier

Power amp with massive transient (IHF dynamic) power capability of 1,200 W/ch in 2 ohms, 800 W into 4 ohms, and 400 into 8 ohms. 150 continuous average W/ch from 20-20,000 Hz into 8 ohms with no more than 0.3% THD 200 W into 4 ohms; 200-ms dynamic power 300 W; dynamic headroom 4.3 dB; S/N 95 dB; slew rate 30 V/μs; IMD 0.03%. 4.33 x 17 x 14.5-in. . . . . \$849

## ADCOM

### GFA-555 Power Amplifier

High-current amp able to drive 1-ohm loads with no current limiting and low feedback. Bridgeable for mono operation. 200 W/ch into 8 ohms; 350 W/ch into 4 ohms with <0.09% THD and <0.05% IMD; constant damping factor >100 20-20,000 Hz. \$750 GFA-555W. As above with white front panel. \$800 GFA-555S. With silver front panel. . . . . \$800 RM-7. Optional rack-mount adaptors for GFA-555. . . . . \$20/pr RM-7W. As RM-7 in white. . . . . \$25/pr RM-7S. As RM-7 in silver . . . . . \$25/pr

### GFA-545 Power Amplifier

High-current amp able to drive low-imp. including 1-ohm loads. Features low-negative-feedback design; constant damping factor; toroidal transformer; no current limiting except for fuses; instantaneous distortion alert when distortion products higher than 1% at speaker outputs; direct-coupled design. 100 continuous average W/ch from 20-20,000 Hz into 8 ohms

with no more than 0.09% THD; 150 W/ch into 4 ohms; IMD 0.008%. 5.5 x 17 x 12.5-in; 25 lbs . . . . . \$500 GFA-545W. As above with white front panel. \$550 GFA-545S. With silver front panel. . . . . \$550 RM-5. Optional rack-mount adaptors for GFA-545. . . . . \$20/pr RM-5W. Optional rack-mount adaptors for GFA-545 in white . . . . . \$25/pr RM-5S. As above in silver . . . . . \$25/pr

### GFA-535 Power Amplifier

High-current amp able to drive low-imp loads. Features low-negative-feedback design; constant damping factor; hookup for 2 sets of speakers; instantaneous distortion alert when distortion products higher than 1% at speaker outputs; direct-coupled design; separate power transformers for each ch. 60 continuous average W/ch from 20-20,000 Hz into 8 ohms with no more than 0.09% THD, 100 W/ch into 4 ohms; IMD 0.008%. 3.25 x 17 x 12.5-in. \$300 GFA-535W. As above with white front panel. \$350 GFA-535S. With silver front panel. . . . . \$350 RM-3. Optional rack-mount adaptors for GFA-545. . . . . \$20/pr RM-3W. As RM-3 in white . . . . . \$25/pr RM-3S. As RM-3 in silver . . . . . \$25/pr

## a/d/s/

### PA4 High-Current 150-W/ch Power Amp

Designed for wide bandwidth and high current; all discrete transistors; polypropylene capacitors; metal-film resistors; 10 bipolar output devices per ch; open-loop bandwidth of <100 MHz to avoid rate limiting and stability with complex speaker loads; toroidal transformers for low noise and high current; drives 2 pairs of speakers; power and speakers switched from a/d/s/ CC4 control center or R4 receiver; bridgeable; clipping LEDs. 150 W/ch into 4 or 8 ohms; 250 W into 1 ch. 2.8 x 17.5 x 14.8-in; 27 lb. . . . . \$1,200

## AUDIO DESIGN ASSOCIATES

### PBA-500 Subwoofer Amplifier

Continuously variable level, frequency and bandwidth controls. 20 segment LED output meter; toroidal power transformer; fan cooled; front panel switch and fuse; 800 W bridged mono from 20-200 Hz with no more than 0.05% THD into 8 ohms; 1200 W into 4 ohms; slew rate 10 V/μsec; IMD 0.08%; 19 x 7.5 x 12.5 in; 49 lb. . . . . \$4,295

### PF-300 Power Amplifier

MOSFET power amplifier capable of driving 1/2-ohm loads continuously. Front panel power switches, indicators and fuses; dual mono design with independent toroidal transformers; fan cooled; 200 W/ch from 20-20,000 Hz with no more than 0.05% THD into 8 ohms; 300 W into 4 ohms; slew rate 10 V/μsec; IMD 0.08%; 48 lb; 19 x 7 x 15.5 in. . . . . \$1,695

### PT-200 Power Amplifier

Dual-mono power amp capable of driving 1 ohm loads. Features 44-segment triangular LED output meters with peak indication; front panel power switches, indicators, fuses; stepped attenuator gain controls; soft clipping circuit; dual toroidal power transformers; fan cooled; standard EIA rack-mountable. 60 continuous average W/ch from 20-20,000 Hz with no more than 0.06% THD into 8 ohms; 110 watts

into 4 ohms; S/N 102 dB; slew rate 12 V/μsec; IMD 0.15%. 28 lb; 19 x 3.5 x 16.88 in. . . . . \$1,995

### PF-300 Power Amplifier

MOSFET power amplifier capable of driving 1/2-ohm loads continuously. Front panel power switches, indicators and fuses; dual mono design with independent toroidal transformers; 100 W/ch from 20-20,000 Hz with no more than 0.09% THD into 8 ohms; 160 W/ch into 4 ohms; slew rate 15 V/μsec; IMD 0.07%; 37 lb; 19 x 5.25 x 15.5 in . . . . . \$1,695

### PBA-150 Subwoofer Amplifier

Subwoofer amp with continuously variable adjustable level, frequency and bandwidth controls. Features 20-segment LED output meter. Front panel power switch, indicator, fuse; fan cooled; standard EIA rack-mountable. 100 continuous average W/ch from 20-200 Hz with no more than 0.06% THD into 8 ohms; 125 watts into 4 ohms; S/N 101 dB; slew rate 10 V/μsec; IMD 0.07%. 20 lb; 19 x 5.25 x 12.5 in \$1,495

### PF-200 Power Amplifier

MOSFET power amp capable of driving 1-ohm loads. Features 4-segment LED output meters; front panel power switch; indicator and fuse; toroidal power transformer; fan cooled; standard EIA rack-mountable. 60 continuous average W/ch from 20-20,000 Hz with no more than 0.07% THD into 8 ohms; 110 watts into 4 ohms; S/N 95 dB; slew rate 10 V/μsec; IMD 0.07%. 25 lb; 19 x 5.25 x 15.5 in. . . . . \$1,295

### PT-50 Power Amplifier

Compact power amp capable of handling 2 ohm loads. Features 10-segment LED output meters; rear panel power fuse; front panel gain controls; toroidal power transformer; fan cooled; standard EIA rack-mountable. 25 continuous average W/ch from 20-20,000 Hz with no more than 0.02% THD into 8 ohms; 40 watts into 4 ohms; S/N 104 dB; IMD 0.04%. 8 lb; 19 x 1.75 x 11.5 in. . . . . \$895

## AUDIO DYNAMICS

### B200 Power Amplifier

Configurable 2-3/4-channel power amplifier with individual left/rear, left/front, right/rear, and right/front volume controls. Features speaker on/off switch; oversized power display with front/rear display switches; direct input; power output into 2 channels; 260 W/ch into 8 ohms; power output into 4 channels; 90 W/ch into 8 ohms, 120 W/ch into 4 ohms. . . . . \$699

## AUDIO RESEARCH

### D250 240-W/ch Vacuum-Tube Power Amplifier

High-definition power amp with controlled turn-on, warm-up for maximum power-tube life. Features patented cross-coupled circuit. 240 continuous average W/ch from 20-20,000 Hz with no more than 1% THD into 8 ohms; FR 20-20,000 Hz ± 1 dB; S/N90 dB; IMD 0.1%; 10.5 x 19 x 21-in. . . . . \$6,990

### M300 Mono 300-W Power Amplifier

Hybrid design with field-effect transistors (for front end) and vacuum tubes (in output stage); cross-coupled circuit; front-panel replaceable line and screen voltage fuses with LED indicators; 2 integral low-noise cooling fans (switchable for "Hi" or "Lo");

# POWER AMPLIFIERS

standby switch for warmup or interruptions; auto muting for silent shutdown; gold-plated inputs connect ground before hot; output taps for 1, 2, 4, or 8 ohms; front and rear handles. 300 minimum continuous W from 16-25,000 Hz with <0.051% THD into 8 ohms; power at clipping 330 W; FR 10-60,000 Hz -3 dB; S/N 90 dB; slew rate 25 V/μsec; 10.5 x 19 x 16-in; 110-lb net ..... \$4,995

## D125 Power Amplifier

Stereo hybrid power amp rated at 120 W into 4-8-16 ohms. Input stage FET based; output stage with 2 "quad" banks of 6550 power output tubes; self monitoring circuits; tube-saver circuit; internal fan cooling; automatic muting at shutdown; 8.75 x 19 x 16.5 in; 84 lb. .... \$4,450

## D115 100-W/ch Vacuum-Tube Power Amplifier

High-Definition power amp with controlled turn-on, warm-up for maximum power-tube life. Features patented cross-coupled circuit; front-panel fusing for line and screen. 100 continuous average W/ch from 20-20,000 Hz with no more than 1% THD into 8 ohms; FR 20-20,000 Hz ± 1 dB; S/N 90 dB; slew rate 15 V/μsec; IMD 0.1%; input imp sens 1.1 V for rated output; input imp 75 kohms nominal; noise <90 dB below rated power, broadband-unweighted; 7 x 19 x 16.5-in; 80-lb shipping weight ..... \$2,995

## M100 100-W/ch Mono Tube Power Amplifier

Basic power amp with auto servo DC balance, front-panel bias adjustment and indication. 100 continuous average W/ch from 20-20,000 Hz with no more than 1% THD into 8 ohms; FR 2-60,000 Hz +0/-3 dB; S/N 90 dB; dynamic headroom <1 dB; slew rate 15 V/μsec; IMD 0.2%; input sens 0.7 V rms for 100 W. 7 x 19 x 18.3-in; 53 lb ..... \$2,495

## D70 60-W/ch Vacuum-Tube Power Amplifier

High-Definition vacuum-tube power amp with continuous turn-on, warm-up for maximum power-tube life. Features patented cross-coupled circuit; front panel fusing for line and screen. 60 continuous average W/ch from 20-20,000 Hz with no more than 1% THD into 8 ohms; FR 20-20,000 Hz ± 1 dB; S/N 90 dB; slew rate 12 V/μsec; IMD 0.1%; input sens 0.95 V for rated output; input imp 75 kohms nominal; noise 90 dB below rated power, broadband-unweighted; 7 x 19 x 14.5-in; 63-lb shipping weight ..... \$1,995

## D120 120-W/ch Solid-State Power Amplifier

High-Definition solid-state stereo power amp with Analog Module technology, unique linear output circuit. Stable under any load condition. Features internal bridging switch for mono operation; power supply fuse on front panel; fuse-failure LED indicator. Output power 120 W/ch into 8 ohms, 10-20,000 Hz at <0.25% THD; FR 1.2-75,000 Hz ± 1 dB; power bandwidth 0.6-100,000 Hz -3 dB; input sens/imp 1.5 V rms/60k ohms; harmonic distortion <0.004% at 1,000 Hz, 1 W; IMD <0.035% at rated power; slew rate 40 V/μsec; rise time 2 μsec; damping factor 300, 10-20,000 Hz; power consumption 1,000 W max; 5.25 x 19 x 10.5-in; 50-lb shipping weight ... \$1,995

## AUDIO BY VAN ALSTINE

### T transcendence Fet-Valve Power Amplifier

Hybrid power amplifier utilizing a combination of vacuum tubes for voltage gain and MOSFET's for current gain. Features >200 W/ch into 8 ohms at less than 0.01% THD; no output transformers; low imp drive capability. 17 x 14.5 x 7.5 in; 38 lb ... \$1,995

### Mos-Fet 280D Power Amplifier

160-W/ch into 8 ohms power amplifier. Features 0.01% THD; low impedance drive capability. 17 x 10 x 5 in; 28 lb ..... \$775

### Mos-Fet 240D Power Amplifier

Full-complementary power MOSFET amplifier. Features precision metal resistors; precision film capacitors; high-voltage, high-current semiconductors; 120

W/ch into 8 ohms with less than 0.01% THD. 13 x 14 x 7 in; 27 lb ..... \$550

## BEDINI AMPLIFIERS

### BA-803 Class A Amplifier

Solid state class A amplifier with 200 W/rms into 8 ohms and 400 W/rms into 4 ohms. Dynamic headroom 3 dB; THD <.15% 8 ohms rated power, 20-20,000 Hz; IMD <1%; damping factor 500 min; S/N-105 dB; Slew rate 55 V/μsec; 7.5 x 19 x 18.35; 50 lb ..... \$1,995

BA-802. Same as above with 150 W/rms 8 ohm; 300 W/rms 4 ohm ..... \$1,495

BA-801. Similar to above with 70 W/rms 8 ohms; 140 W/rms 4 ohm ..... \$995

## BELLES RESEARCH

### BELLES 450 Stereo Power Amplifier

Solid-state power amplifier with dual complementary bi-polar transistor circuitry and power MOSFET. All components are mounted on a single circuit board. Features van den Hul cable wiring; high-quality capacitors and resistors; toroidal power transformer. 200 continuous W/ch from 20-20,000 Hz with no more than .01% THD into 8 ohms; 55 lb; 10 x 17 x 13 in ..... \$1,495

### BELLES 150 Stereo Power Amplifier

Solid-state power amp with dual complementary bi-polar transistor circuitry, and power MOSFET's. All



components are mounted on a single circuit board. Features van den Hul silver mono-crystal wiring; high-quality capacitors and resistors; toroidal power transformer. 75 continuous W/ch from 20-20,000 Hz with no more than .09% THD and IMD into 8 ohms; damping factor >175; 22 lb; 7 x 17 x 8.5 in ... \$595

## THE DAVID BERNING COMPANY

### EA-2100 Tube Power Amplifier

All-triode stereo vacuum-tube power amp with low coloration. Features high-frequency power-conversion system for fully regulated power supply; low power consumption; 10 to 20 year tube life. 100 continuous average W/ch from 20-20,000 Hz with no more than 2% total distortion into 8 ohms; FR 7-70,000 Hz ± 1.5 dB; S/N 100 dB; dynamic headroom 2 dB; slew rate 15 V/μsec; input imp 100,000 ohms; output imp 4, 8, 16 ohms; negative feedback 8 dB; sens 1 V for 170 W out; clipping level (soft clipping) 170 W; 5.25 x 19 x 19-in; 40 lb ..... \$2,695

## B&K COMPONENTS

### PRO-600 250-Watt Power Amplifier

High-powered amp with fan-cooled driver stage. 250 continuous average W/ch from 20-20,000 Hz with no more than 0.09% THD into 8 ohms, 400 W into 4 ohms; FR 5-45,000 Hz ± 3 dB; S/N 95 dB; dynamic headroom 0.1 dB; slew rate 15 V/μsec; IMD 0.09%; bridgeable to 800 W. 6 x 19 x 15-in; 40 lb ... \$1,298

### Sonata Series 200 Mono Amplifier

Mono amp with 200 W into 8 ohms and 350 W into 4 ohms. FR 1-100,000 Hz; THD .09 at 1,000 Hz; min load imp .75 ohms; class AB; DC coupled circuitry; optional balanced inputs ..... \$898

### EX-442 Dual-Mono Power Amplifier

Dual-mono power amp with gold-plated input and

output connectors. 200 continuous average W/ch; FR 5-45,000 Hz ± 3 dB; S/N 95 dB; dynamic headroom 0.5 dB; slew rate 15 V/μsec; IMD 0.09%; 300 W into 4 ohms; 42-ampere peak-to-peak current capability. 6 x 19 x 15-in; 35 lb ..... \$895

### ST-202 PLUS Power Amplifier

Power amp designed to deliver high-wattage to speakers. 200 continuous average W/ch from 20-20,000 Hz with no more than 0.9% THD into 8 ohms; dynamic headroom 1.8 dB; S/N 95 dB; slew rate 11 V/μsec; IMD 0.09%. 6 x 19 x 15-in; 30 lb ..... \$698

### ST-202 150-Watt Power Amplifier

Power amp with gold-plated connectors for driving 8- and 4-ohm loads. 150 continuous W/ch from 20-20,000 Hz with no more than 0.9% THD into 8 ohms; FR 5-45,000 Hz ± 3 dB; S/N 90 dB; dynamic headroom 1.5 dB; slew rate 11 V/μsec; IMD 0.09%; 200 W into 4 ohms. 6 x 19 x 15-in; 25 lb ..... \$648

### ST-140 Class A Power Amplifier

Power amp with Class A design up to output stage. 105 continuous average W/ch from 20-20,000 Hz with no more than 0.09% THD into 8 ohms, 100 W into 4 ohms; FR 5-45,000 Hz ± 3 dB; S/N 90 dB; dynamic headroom 1.4 dB; slew rate 11 V/μsec; IMD 0.09%. 6 x 19 x 14-in; 25 lb ..... \$498

## BOULDER AMPLIFIERS

### Boulder 500 150-W/ch Power Amp

28 metal 250-W transistors for total of 7,000 W; convection cooling; LED meter at -40, -20, -6 dB; clip LED indicators for + and - voltage or current; gold-plated connectors (3-pin input D3F, RCA phono, 5-way output); conductive-plastic level controls; recessed panel controls; toroidal power transformer; screw-on feet; complete protection circuitry with visual indicators for short circuit, DC input offset, and thermal abuse; rear-panel switch-selectable input modes and multiple connectors. Optional plug-in Jensen input transformers. 150 W/ch into 8 ohms, 250 W/ch into 4 ohms, 500 mono into 8 ohms; peak power for 10 ms 150 W stereo into 8 ohms, 300 W stereo into 4 ohms, 600 W mono into 8 ohms; slew rate full V<sub>p</sub>-p closed loop 35 V/μs stereo; peak current for 10 ms >50 amperes; sep 95 dB at <1,000 Hz, 80 dB at 10,000 Hz. 17.25 x 7 x 15.5 in; 51 lb . \$3,295 International version for 100/120/220/240 V AC. 50/60 Hz ..... \$3,595

### Speaker Cables

For use with Boulder power amps only. Also available with gold spade connectors on one or both ends.

CS06. 6 ft, stacking banana both ends, coax \$85/pr

CS12. 12 ft, stacking banana both ends, coaxial ..... \$121/pr

CS25. 25 ft, stacking banana both ends, coaxial ..... \$199/pr

NS01. Terminator pair for use at speaker ..... \$39

## BRYSTON

### 6B 500-W/ch Power Amplifier

Mono power amp with high voltage and current. Max 120+ amperes instantaneously into 1 ohm; 1,000 W into 4 ohms with average current of 22 amperes; 1,000 W into 1 ohm with 35 amperes average; ground lift switch. 500 continuous W/ch from 20-20,000 Hz with no more than 0.005% THD into 8 ohms; S/N 105 dB; slew rate >60 V/μsec; IMD 0.005%; 55 lbs; 5.75 x 19 x 12-in. .... \$1,800

### 4B 250-W/ch Power Amplifier

Fully complementary class-AB power amp with bridging switch, 1,500-sq-in. heat-sink area; regulated power supplies to all voltage gain stages; ch sep back to line cord; red LED clipping indicator. Output power 200 W/ch, 800 W bridged into 8 ohms, 20-20,000 Hz at 0.01% THD; IMD 0.01%, 10 mW-200 W; noise -100 dB; slew rate 60 V/μsec; power bandwidth 1-100,000 Hz; damping factor 500 at 20 Hz, 8 ohms; input



# POWER AMPLIFIERS

sens/imp 1.25 V/50k ohms; 5.25 x 19 x 13.5-in \$1,595  
**3B.** Similar to 4B except 100 W/ch, 400 W bridged; input sens/imp 1 V/50k ohms; 500-sq-in. heat-sink area; 9" D ..... \$995  
**2B.** Similar to 3B except 50 W/ch, 200 W bridged; input sens/imp 0.75 V/50k ohms; 250-sq-in. heat-sink area; 3.5 x 19 x 10-in ..... \$575

## 4-Way Switch Box

No active components; designed for high-current applications. For Bryston equipment only .... \$199

## CAMBRIDGE AUDIO

### A250 Mono Power Amplifier

Separate power amplifier with power-on switch only. Rated at 250 watts per channel into 8 ohms and has a peak current capability of 45 amps. S/N > 100dB. THD 0.5% ..... \$1,800/pr

### A75 Power Amplifier

Separate power amp with power-on switch only. FR 5-50,000 Hz < 1 dB; S/N > 100 dB; THD 0.5% . . \$798

### A50 Power Amplifier

Separate power amplifier with power-on switch only. 60 W/ch into 8 ohms. Peak current capability of 35 amps. Can be connected for bridge mono operation by rear panel switch, giving 150 W into 8 ohms (clipping at 200 W). S/N > 100dB, THD > 0.5% . \$579

## CARVER

### M 4.0t 375-W/ch Power Amplifier

Magnetic Field stereo power amp with LED dual peak-responding power displays, infrasonic and ultrasonic filters. 375 W/ch into 8 ohms; dynamic headroom/ch 500 W at 4 and 8 ohms; 16 lb ..... \$799

### M-500t 250-W/ch Power Amplifier

Stereo power amp with Magnetic Field circuitry in slim cabinet; peak-responding power meters; cool operation; anodized brushed aluminum in dark pewter finish. 250 W/ch into 8 ohms; slew rate 40 V/μsec ..... \$650

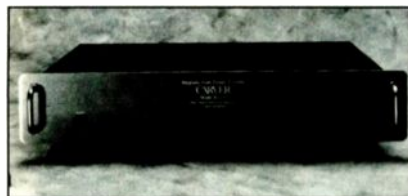
### M1.0t 200-W/ch Power Amplifier

Magnetic Field amplifier with high headroom and dual peak-responding power LED's. Features electronic protection; sonic transfer modification. 200 W/ch into 8 ohms; dynamic headroom 3 dB; slew rate 200 V/μs. 19 x 3.5 x 10.5 in; 20 lb ..... \$610

### M400t 200-W/ch Power Amplifier

Stereo power amp with Magnetic Field circuitry that eliminates oversize heat sinks. Features dual vertical LED peak-level display; dark pewter finish. 200 W/ch into 8 ohms; slew rate 40 V/μsec; 6.75 x 6.75 x 6.75 in ..... \$560

### M-0.5t 140-W/ch Power Amplifier



Magnetic field power amplifier produces 140 W/ch into 8 ohms; peak responding LED; electronic protection circuitry. 19 x 3.5 x 0.5 in; 20 lb ..... \$549

### M200t 120-W/ch Power Amplifier

Magnetic Field power amp produces 120 W/ch into 8 ohms. Dark pewter finish; LED's indicate power and use of speaker-protection circuitry. 17.3 x 9 x 2.55 in; 10.25 lb ..... \$450

### Z-1 Wide-Band Z Coupler

Imp-matching device enables Carver Magnetic Field

power amp to be used with receiver or integrated amp. Receiver or integrated amp outputs drive power amp through Z-1 coupler, which presents an optimum noninductive load to the amp in the receiver or integrated amp ..... \$49

## CELLO

### 7000-00 Performance Amplifier Set

2 mono amps (left and right) and 2 mono supplies (left and right) for stereo; power output section has 40 output devices per ch ..... \$13,125

## CLASSE AUDIO

### DR-3-VHC Power Amplifier

Power Amplifier features THD 0.01%; sens 800 mV; 45 W/ch into 8 ohms; bandwidth 20-20,000 Hz; Class pure A output; dynamic headroom 0.1 dB; bridgeable; 300 W/4 ohms; 102 lb. .... \$4,250

### DR-9 Power Amplifier

Power amplifier features balanced inputs/outputs; THD 0.01%; sens 1000 mV; 100 W/ch into 8 ohms; bandwidth 20-20,000 Hz; Class AB output; dynamic headroom 6 dB; imp 1 ohm; bridgeable; 800 W/4 ohms; 64 lb. .... \$3,495

### DR-3B Power Amplifier

Power amplifier features THD 0.01%; sens 800 mV; 25 W/ch into 8 ohms; bandwidth 20-20,000 Hz; Class Pure A output; dynamic headroom 7 dB; imp 0.1 ohms; bridgeable; 200 W/4 ohms; 72 lb. .... \$2,995

## CONRAD-JOHNSON

### Premier One B Vacuum-Tube Power Amp

Low-noise precision parts in audio circuitry; LED bias indicators. Output power 150 W/ch into 4, 8, or 16 ohms; S/N 90 dB ..... \$5,750

### Premier Five Vacuum-Tube Mono Power Amp

Low-imp power supplies and extensive use of polystyrene capacitors; LED bias indicators. 200 W into 8 ohms; S/N 94 dB; 9 x 19 x 20.5-in.; 90 lb . . . \$3,750  
**MV100.** Similar to above except stereo and 90 W. .... \$2,950  
**MV50.** Similar to Premier Five except stereo, 45 W/ch into 8 ohms; S/N 94 dB; 40 lbs ..... \$1,685

## COUNTERPOINT

### SA-4 Power Amplifier

Power amp with 130 continuous average W/ch from 20-20,000 Hz with no more than 0.2% THD into 8 ohms; S/N 92 dB; dynamic headroom 2 dB; IMD 0.65%; 6.7 x 19 x 19-in; 60 ..... \$5,495

### SA 20/20 Power Amplifier

Mono hybrid power amp with tube front end and MOSFET output stage. Features no overall loop feedback; warm-up and shut-off auto speaker muting. Includes vacuum-tube rectification. 600 continuous average W/ch from 20-20,000 Hz into 8 ohms with no more than 0.5% THD, 988 W into 4 ohms, 1,500 W into 1 ohm; 20-ms peak amperage into 0.1 ohm 50 amperes; S/N 84 dB; slew rate 0.6 V/μ; IMD 0.02%. 6.7 x 19 x 19-in; 55 lb ea ..... \$4,190/pr

### SA 20 Power Amplifier

Hybrid power amp with tube front end and MOSFET output stage. Features no overall loop feedback; warm-up and shut-off auto speaker muting; internal switching to operate as a bridged mono amp for 3x power. Includes vacuum-tube rectification. 220 continuous average W/ch from 20-20,000 Hz into 8 ohms with no more than 0.5% THD, 420 W into 4 ohms, 1,000 W into 1 ohm; 20-ms peak amperage into 0.1 ohm 50 amperes; S/N 84 dB; slew rate 0.6 V/μ; IMD 0.02%. 6.7 x 19 x 19-in; 55 ..... \$2,095

### SA-12 Power Amplifier

Hybrid power amp with tube front end and MOSFET

output stage. Features no overall loop feedback; warm-up and shut-off automatic speaker muting. 85 continuous average W/ch from 20-20,000 Hz with no more than 1% THD into 8 ohms; FR 5-100,000 Hz ± 0.2 dB; S/N 92 dB; dynamic headroom 2 dB; channel-to-ch sep > 85 dB from 100-10,000 Hz; 4.5 x 19 x 12.5-in. .... \$1,045

## CROWN

### Macro-Tech 1200 295-W/ch Power Amplifier

295 W/ch into 8 ohms; 555 W/ch into 16 ohms or 790 W/ch into 8 ohms mono; four second turn-on; pushbutton power switch; mono/stereo switch; LED power indicator; steel chassis; FR 20-20,000 Hz ± 0.1 dB SPL/W/m; THD < 0.05%; IMD < 0.05%; slew rate > 13 volts/μsec; damping factor > 1,000; draws 60 watts or less on idle. 19.0 x 3.5 x 16.0 in; 44.62 lb ..... \$1,449

### PS-400 165-W/ch Power Amplifier

165 W/ch into 8 ohms; 360 W/ch into 16 ohms or 520 W/ch into 8 ohms mono; four second turn-on with minimum thumps; pushbutton power switch; independent input-level controls; mono/stereo slide switch; 2 LED signal-presence indicators; all-aluminum chassis; FR 20-20,000 Hz ± 0.1 dB SPL/W/m; THD < 0.001% from 20-400 Hz; IMD < 0.05%; slew rate 16 volts/μsec; draws 40 watts or less when idle. 19.0 x 7.0 x 10.13 in; 55 lb ..... \$1,259

### Macro-Tech 600 215-W/ch Power Amplifier

215 W/ch into 8 ohms; 395 W/ch into 16 ohms or 510 W/ch into 8 ohms mono; four second turn-on; pushbutton power switch; mono/stereo switch; LED power indicator; steel chassis; FR 20-20,000 Hz ± 0.1 dB when idle. 19.0 x 3.5 x 16.0 in; 39.56 lb. .... \$1,199

### Micro-Tech 1200 295-W/ch Power Amplifier

295 W/ch into 8 ohms; 555 W/ch into 16 ohms or 790 W/ch into 8 ohms mono; power rocker switch; mono/stereo switch; LED power indicator; steel chassis; FR 20-20,000 Hz ± 0.1 dB SPL/W/m; THD < 0.05%; IMD < 0.05%; slew rate > 13 volts/μsec; damping factor > 1,000; draws 60 watts or less when idle. 19.0 x 3.5 x 16.0 in; 40.56 lb. .... \$1,199

### DC-300A II 165-W/ch Power Amplifier

165 W/ch into 8 ohms; 340 watts into 16 ohms or 545 watts into 8 ohms mono; instantaneous turn-on with minimum thump and no program delay; independent input level controls; power switch with pilot light; mono-stereo switch; LED indicators; all-aluminum chassis; FR 0-20,000 Hz ± 0.1 dB SPL/W/m; THD < 0.001% from 20-400 Hz; IMD < 0.05%; slew rate 8 volts/μsec; draws 40 watts or less when idle; 19.0 x 7.0 x 9.75 in; 45 lb ..... \$1,049

### Micro-Tech 600 215-W/ch Power Amplifier

215 W/ch into 8 ohms; 395 W/ch into 16 ohms or 510 W/ch into 8 ohms mono; power rocker switch; mono/stereo switch; LED power indicator; steel chassis; FR 20-20,000 Hz ± 0.1 dB SPL/W/m; THD < 0.05%; IMD < 0.05%; slew rate > 13 volts/μsec; damping factor > 1,000; draws 60 watts or less on idle. 19.0 x 3.5 x 16.0 in; 37 lb ..... \$949

### PS-200 95-W/ch Power Amplifier

95 W/ch into 8 ohms; 190 watts into 16 ohms or 280 watts into 8 ohm mono; four second turn-on with minimum thumps; pushbutton power switch; input-level controls; mono/stereo slide switch; 2 LED signal presence indicators; all-aluminum chassis; FR 20-20,000 Hz ± 0.1 dB SPL/W/m; THD < 0.01% from 20-400 Hz; IMD < 0.05%; slew rate 16 volts/μsec; draws 30 watts or less when idle. 19.0 x 5.25 x 10.13 in; 25 lb ..... \$819

### PSA-2 265-W/ch Power Amplifier

265 W/ch into 8 ohms; 520 W/ch into 16 ohms or 760 W/ch into 8 ohms mono; four second/instantaneous turn-on; aluminum chassis; mono/stereo slide

**“It is so clearly superior to past amplifiers in the low- to mid-priced range—not to mention most amplifiers two to three times its price—that I can unhesitatingly recommend it for even the most demanding high end system.”**

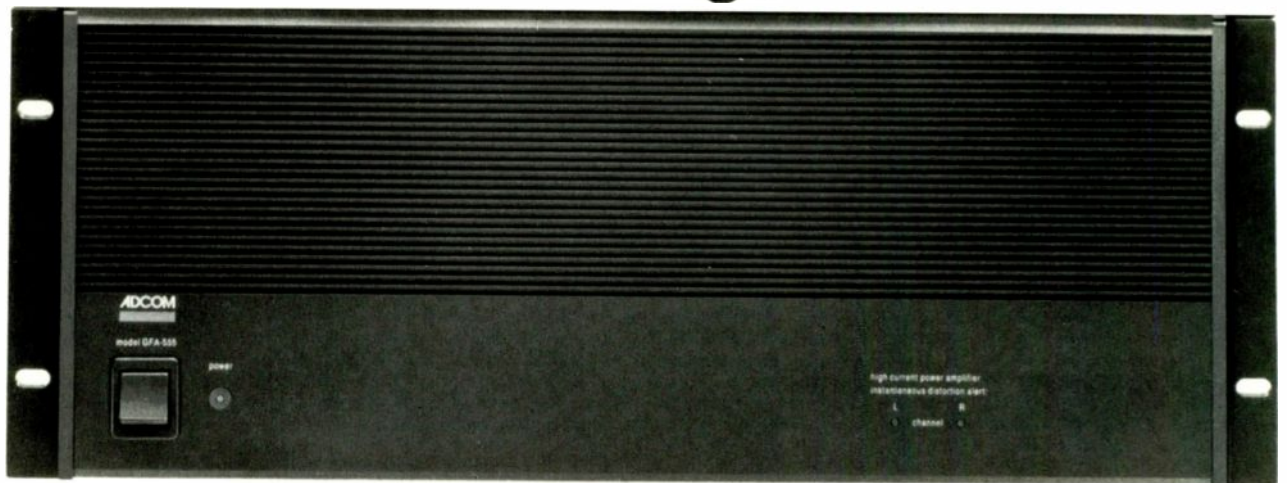
*Anthony Cordesman*

**stereophile**

volume 8, no. 4

# ADCOM GFA-555

High Power, High Current.





## The complete review:

### A BEST-BUY BREAKTHROUGH OR THE START OF A NEW WAVE?

I am reluctant to call any given transistor power amp a "best buy" or breakthrough. From my talks with designers and other audiophiles, it is clear that the state of the art in power amplifiers is about to change. From where I stand, the Adcom GFA-555 is the first sample of this new wave. It is so clearly superior to past amplifiers in the low- to mid-priced range—not to mention most amplifiers two to three times its price—that I can unhesitatingly recommend it for even the most demanding high end system.

The GFA-555 does everything well, and most things exceptionally well. It provides superb, well-controlled bass with far better speaker load tolerance than most amps. Its midrange and treble are remarkably low in coloration. There is no hint of hardness, and none of the loss of inner detail common to transistor amplifiers.

### "The Adcom's soundstage is sufficiently superior that even those who claim all power amplifiers sound alike might hear the difference."

With the exception of the Krells, I have never heard a more detailed, natural, and extended upper four octaves in a transistor amp. The Adcom may even be a legitimate rival to the Krell; it's brighter and more dynamic, and somewhat more open. And, like the Krell, it gives the impression, on really good material, that the amplifier simply isn't there, on really good material. Nor is the Adcom romantic or sweet, like New York Audio's new Moscodes. Rather, it offers natural upper octave detail that the latter miss. Other amplifiers have similar upper octave performance, but I unhesitatingly recommend the Adcom over the very stiff competition from Tandberg and Threshold.

The Adcoms' soundstage is sufficiently superior that even those who claim all power amplifiers sound alike might hear the difference. It comes very close to the better tube power amplifiers in providing detailed, stable, realistic imaging with natural depth. It is not an Audio Research D-250, but is extraordinarily holographic—I suspect almost embarrassingly so. This kind of soundstage has previously cost at least \$2000.

I am also highly impressed with this amplifier's dynamics. Once again, it is not going to survive a one-on-one with the Audio Research D-250 or Conrad Johnson Premier Fives, but it rivals any transistor power amplifier in its power class that I have heard—including high-powered receivers or amps with trick power supplies—at any price. It provides these dynamics into virtually any load without bloat, restriction of sound, or change in timbre. For all the nonsense published by most manufacturers about driving complex loads, this amplifier actually delivers.

The Adcom does not lose sweetness and detail as its power goes up. I am normally leery of transistor amplifiers rated much above 100 watts; they too often blur detail and harmonic information, and this sonic price tag is far more costly than the added power is worth. This does not happen with the Adcom unless the distortion lights are blinking, and they only blink when the amp is delivering well over its rated 200 watts per channel (8 ohms) or 325 watts (4 ohms). By comparison, once-outstanding high power amplifiers like the Hafler DH-500 now sound annoyingly veiled.

With a minor dealer modification, you can even drive 1 ohm loads like the Scintilla. I can't measure whether the Adcom delivers its rated 800 watts per channel into 2 ohms, or 20 amps peak, but I can tell you that it does a superb job of driving this superb speaker. Anything in its price range (or even close) generally changes timbre and degenerates when driving the Scintilla at 1 ohm.

### "For all the nonsense published by most manufacturers about driving complex loads, this amplifier actually delivers."

I'm going to have to say a few words about its technology before I give Adcom a swelled head. You'll be happy to note that the manufacturer claims for the GFA-555 a simple gain path, a 700 watt toroidal transformer, a well-regulated high current power supply, new ultra-stable bias circuitry, direct coupling, no current limiting, and no output inductor. More substantively, its harmonic shape mixes suitable yinyang while avoiding the curse of pyramidology. This, of course, means that it weighs 34 pounds, has simple rack-mount black styling, pilot lights, warning lights (to indicate distortion levels above 1%), and measures exactly 7 $\frac{1}{16}$ " by 12 $\frac{1}{4}$ " by 19".

More pragmatically, the technical specifications are significant in that they represent reasonable bandwidth (4-150,000 Hz), damping (150-200), gain (27 dB), and noise (-106 dB). Of these, only the noise specification is outstanding. No attempt is made to beat distortion records: .09% THD at rated power into 8 ohms, and .25% into 4. I have heard so many power amplifiers with infinitely (well, an order of magnitude) better specifications sound so much worse; this may be the amplifier whose sound could convince *Stereo Review*, *High Fidelity*, etc. that their present measurements are virtually worthless.

I suspect that the Adcom is going to force many designers in the \$1000-1500 range to either make radical improvements in their products over the next six months, or look at the possibility of retiring from competition. This is a "must" amplifier to audition before you spring for anything close in

### "I suspect that the Adcom is going to force many designers in the \$1000-1500 range to either make radical improvements in their products... or look at the possibility of retiring from competition."

price. If the Adcom is simply the first of a whole wave of good amplifiers, it will help revitalize the high end for the average audiophile, and force most manufacturers into more reasonable pricing. Now, Adcom, if you can only come up with a preamp as good!

AHC

# ADCOM®

fine stereo components

11 Elkins Road, East Brunswick, NJ 08816  
U.S.A. (201) 390-1130  
Distributed in Canada by: PRO ACOUSTICS INC.  
Pointe Claire, Quebec H9R 4X5

#### Manufacturer's note: Approximate retail prices listed in order of mention in review:

Adcom GFA-555	\$ 750
Krell	2300-7500
N.Y. Audio Moscode	900-1600
Tandberg	1000-2000
Threshold	1490-3150
Audio Research D-250 (MK II)	6000
Conrad Johnson Premier 5 (pair)	6000
"high powered receivers"	?
"amps with trick power supplies"	?
Hafler DH-500	850

# POWER AMPLIFIERS

switch; FR 20-20,000 Hz  $\pm 0.1$  dB SPL/W/m; THD  $< 0.002\%$ ; IMD 0.01%; slew rate  $> 30$  volts/ $\mu$ sec; dumping factor  $> 700$ ; draws 90 watts or less when idle. 19.0 x 7.0 x 14.75 in ..... \$819

## D-75 35-W/ch Power Amplifier

35 W/ch into 8 ohms; 95 watts into 8 ohms mono;  $< 110$  dB hum and noise in the range 20-20,000 Hz; instantaneous turn-on with minimum thump and no program delay; two input-level controls; power switch; mono/stereo switch; 2 signal-presence indicators; 1 power indicator; ground link; FR 20-20,000 Hz at 1 watt into 8 ohms (stereo); IMD  $< 0.05\%$ ; slew rate 6 volts/ $\mu$ sec;  $\pm 15$  watts power consumption when idle. 19.0 x 9.0 x 1.75 in; 10 lb ..... \$524

## DB SYSTEMS

### DB-6A Power Amplifier

Stereo power amp able to drive 1-ohm loads. Features 12-dB/octave infrasonic filter; peak-clipping LED's; electronic clamp. Output power 40 W/ch continuous into 8 ohms from 20-20,000 Hz at 0.003% THD; THD 0.0008% at 1,000 Hz; IMD  $< 0.002\%$ ; FR 20-40,000 Hz  $+0/-1$  dB; input sens/imp 1 V/50 kilohms; S/N 112 dB at 1 V A-wid; slew rate 15 V/ $\mu$ s; damping factor  $> 400$ ; 20-1,000 Hz. 4.9 x 16 x 12.8 in. .... \$795

DB-6A-M. Similar to DB-6A except bridged mono amp at 140 W continuous with 0.008% THD; slew rate 30 V/ $\mu$ sec. .... \$795  
19" Rack adaptor ..... \$55  
Mono conversion of DB-6A to DB-6A-M ..... \$39  
DB-6A-M(2). Similar to DB-6A-M except pair of mono amplifiers. .... \$1,550

## dbx

### BX1 Power Amplifier

Configurable 2-/3-/4-channel power amplifier with 3 sets of fuses and complementary circuitry throughout. Features high-quality film capacitors; 8 x 250-W high-speed bipolar devices/ch; 2 x 3,200 VA toroidal transformers with 2 taps each; separate rectifiers for each ch;  $\pm 55$ -V power-supply rails. Contains no fans or limiting circuitry. Quietly shuts down under thermal stress. Power output into 2 channels: 400 W/ch into 8 ohms, 650 W/ch into 4 ohms, 800 W/ch into 2 ohms, 1,400 W/ch into 1 ohm. Power output into 4 channels: 100 W/ch into 8 ohms, 200 W/ch into 4 ohms, 325 W/ch into 2 ohms, 400 W/ch in 1 ohm; slew rate 200 V/ $\mu$ s ..... \$3,700

## DENON

### POA-2400 Stereo Power Amplifier

Features Denon Optical Class A design, and Twin Pure Current Supply. 200 W/ch into 8 ohms with no more than 0.01% THD. High speed protection circuits; bar-line multi display. IMD  $< 0.002\%$ ; FR 1-300,000 Hz  $+0, -3$  dB at 1; S/N 123 dB; self diagnostic function; 7.36 x 17.08 x 16.88; 38.5 lb ..... \$750

### POA-6600 Mono Power Amplifier

Mono power amp with Dual Super Non-NFB circuit for high-speed signal transmission. Features pure current power supply; separate power supply block chassis; Cannon type balance input connector; conventional RCA input jack with selector switch; front-panel level control; extra large speaker terminals; peak indicators; high-speed reset-type protection circuit; remote power on/off switching from DAP-5500 or PRA-1100 preamps. 250 W min rms into 8 ohms from 20-20,000 Hz with no more than 0.02% THD; dynamic power 800 W at 1 ohm; IMD 0.002%; S/N 123 dB; slew rate  $\pm 500$  V/ $\mu$ sec. .... \$750  
POA-4400 Mono Power Amplifier. As above with 150 W ..... \$750

## DENNESEN ELECTROSTATICS

### Antares II Power Amplifier

75 W/ch MOSFET power amp; no more than 0.1% THD

into 8 ohms; FR 10-100,000 Hz  $\pm 1$  dB; S/N 90 dB; dynamic headroom 3 dB; slew rate 30 V/ $\mu$ sec; IMD 0.1%; 5.25 x 19 x 8-in; 30 lb ..... \$595  
Orion. Similar to above except with 150 watts/mono. .... \$1,500

## DISCRETE TECHNOLOGY

### Distech Dual-Mono Power Amplifier

Solid-state power amplifier. Features matched front-end transistor pairs; darlington pair; cascode voltage section; high-grade polypropylene capacitors; platinum interconnect on input. FR 3-100,000 Hz  $+0/-3$  dB; damping factor at 50 Hz 200; 200 W. .... \$2,600

### Distech LSII Power Amplifier

Power amp with MOSFET output and Distech AC power cable. 100 continuous average W/ch from 20-20,000 Hz into 8 ohms with less than 0.95% THD, 200 W into 4 ohms; 200-ms dynamic power 200 W; dynamic headroom 3.2 dB; S/N 90 dB below 10-watt output; slew rate 40 V/ms IMD  $< 0.09\%$ . 16 x 5 x 14 in; 25 lb ..... \$950

## ELECTROCOMPANET BY MUSIC AND SOUND IMPORTS

### Ampliwire Power Amps

All Electrocompaniet power amps are Class AB, DC servo controlled, and feature thermal shutoff safety filter in output stage for undistorted use with any type of speaker.

250. Inverts phase. 250 W/ch into 8 ohms; 480 W/ch into 4 ohms; FR 0-100,000 Hz; THD 0.003%, 45 lb. Approx. .... \$3,995  
100. Does not invert phase. 100 W/ch into 8 ohms; 180 W/ch into 4 ohms; FR 0-100,000 Hz; THD 0.003%, 40 lb. Approx. .... \$2,195  
65. Does not invert phase. 75 W/ch into 8 ohms; 135 W/ch into 4 ohms; FR 0-100,000 Hz; THD 0.004%, 32 lb. Approx. .... \$1,495

## FORTE AUDIO

### Model 1a Power Amplifier

Dual-channel, non-inverting power amp using FET/bi-polar front-end topology and operating in pure class A throughout front-end and power output stages. Input stage is direct coupled and biased with regulated constant-current sources. Output stage employs 20 high-speed power devices and uses no active protection circuits. Does not impose a fuse or isolation inductor at the output and maintains constant damping over the full frequency band. Gold-plated input and output connectors. Glass-epoxy circuit boards. Custom toroidal power transformer. Rated power 50 W/ch at 0.05% THD into 8 ohms; FR 20-20,000 Hz; bandwidth  $-3$  dB points of 7 and 100,000 Hz; slew rate 40 V/msec; imp 75,000 ohms; 19 x 7 x 11 in; 36 lb ..... \$950

### Model 3 Power Amplifier

Similar to model 1a except higher power with output stage operating in high-bias class AB. Rated power 200 W/ch at 0.05% THD into 8 ohms; FR 20-20,000 Hz; bandwidth  $-3$  dB points of 7 and 100,000 Hz; slew rate 40 V/msec; imp 75,000 ohms; 19 x 7 x 11 in; 36 lb ..... \$990

## FOSGATE-AUDIONICS

### M-100 Power Amplifier

Mono amp designed for surround applications. Features 60 W/ch into 8 ohms; 100 W/ch into 4 ohms; moderate feedback; silent turn-on/off; input level control; FR 15-40,000 Hz  $\pm 1$  dB; THD  $< 0.03\%$ ; IMD  $< 0.03\%$  ..... \$269  
S-100. As above, stereo ..... \$429  
T-100. Tri-channel version of M-100 ..... \$599

### M-60 Power Amplifier

Mono amp designed for use in A/V system. Can be used for center front channel applications. 2 can be

used for stereo compact complementary/symmetry output stage. Low TIM and TID. Includes gain adjust and clipping indicator. 45 continuous average W/ch from 20-20,000 Hz into 8 ohms with no more than 0.1% THD, 60 W into 4 ohms; 200-ms dynamic power 65 W; dynamic headroom 1.5 dB; S/N 95 dB; slew rate 15 V/ $\mu$ s; IMD 0.1%. 6.56 x 3.56 x 6.56 in; 5 lb ..... \$179

## HAFLER

### XL-600 MOSFET Power Amplifier

Excelinear near-zero-phase shift circuit with J-FET double differential push-pull cascaded "tube-like" input and current-mirroring 2nd stage. 16 MOSFET outputs; direct coupled; stable into all loads; high capacitance (72,000 mfd); Excelinear speaker tweaking adjustment; gold inputs and outputs; mono bridging switch; variable speed DC fan cooling. 305 W/ch into 8 ohms with  $< 0.05\%$  THD, 20-20,000 Hz;  $< 0.04\%$  IMD from 1-305 W; 450 W/ch into 4 ohms; 900 W mono into 8 ohms; input sens 2.4 volts for 305 W @ 8 ohms; FR 10-50,000 Hz  $\pm 0.1$  dB; S/N  $> 100$  dB @ 305 W; 7 x 19 x 13 in; 50 lb ..... \$1,195

### DH-500 Power Amplifier

Stereo power amp designed to deliver  $> 255$  W/ch with  $< 0.025\%$  distortion into 8 ohms;  $> 400$  W into 4 ohms (can be bridged, using optional bridging kit, to deliver  $> 800$  W into 8 ohms). Employs MOSFET's on compact enclosed multispeed fan-cooled heat sink. Fuses and relay protect speakers against turn-on thumps or DC shifts; self-protective capability of the MOSFET's eliminates need for amp protection. Factory assembled ..... \$900  
Kit ..... \$775

### XL-280 MOSFET Power Amplifier

J-FET double differential input and 12 MOSFET output. Excelinear speaker tweaking adjustment; gold inputs; mono bridging switch; speaker protection fuses. 145 W/ch into 8 ohms;  $< 0.05\%$  THD, 20-20,000 Hz;  $< 0.04\%$  IMD; S/N  $> 100$  dB; FR 10-50,000 Hz  $\pm 0.1$  dB; 200 W/ch into 4 ohms; 400 W into mono. 5.25 x 17 x 10.5 in; 27 lb; assembled .. \$650  
Kit ..... \$575

### DH 120 Power Amplifier

Stereo power amp stable with L and R level controls, stereo/mono switch, AUX speaker outputs which feed a matrix signal for ambience effects. 62 continuous average W/ch from 20-20,000 Hz with no more than 0.006% THD into 8 ohms; FR 10-40,000 Hz  $\pm 0.5$  dB; S/N  $> 100$  dB; damping factor 219 to 1,000 Hz; sep 85 dB at 1,000 Hz; input imp 22k; slew rate 30 V/ $\mu$ sec; 15.75 x 3.25 x 9 in; 18 lb; assembled ..... \$425  
Kit ..... \$375

## HARMAN KARDON

### Citation Twenty-Two 200-W/ch Power Amp

Selectable high-current and high-voltage output; dual-voltage design; dual power transformers; gold-plated input jacks and speaker terminals; 8 130-W power transistors per ch; clipping indicators; LED power meters; anodized brushed aluminum blue/black finish with rubber trim. 200 W/ch into 8 ohms, 400 W bridged into mono; current capability  $\pm 120$  amps; neg feedback 12 dB ..... \$1,099  
Twenty-Four. Similar to above except 100 W/ch; current capability  $\pm 60$  amps; 4 130-W power transistors per ch; damping factor 75 into 8 ohms ... \$699

## HEYBROOK BY D'ASCANIO AUDIO

### P-2 Power Amplifier

Hand-assembled power amp with toroidal transformer capable of 30-amp output. Features circuits designed with close-tolerance, high-quality components. Thick aluminum chassis acts a heatsink over entire surface, equalizing temp within the case and maintaining a stable relationship between internal components. 80 continuous average W/ch from 20-



# POWER AMPLIFIERS

20,000 Hz into 8 ohms with no more than 0.05% THD; 120 W into 4 ohms; S/N 60 dB; IMD 0.05%; instantaneous peak current  $\pm 30$  A. 17 x 4 x 12 in; 18 lb. .... \$1,298

## HITACHI

### HIMA120AVSW Power Amplifier

Power display of 10 LED's per ch. 120 W/ch into 8 ohms; 200-ms power 120 W. 14.5 x 5 x 13 in; 17.7 lb. .... \$250

## JADIS BY MADRIGAL

### JA-200 160-W/ch Tube Power Amp

Pure Class A power amp with power capability and dynamic behavior to drive difficult loads with low distortion. 4 chassis (2 amps, 2 power supplies). 160 W/ch into 4 and 8 ohms. 210 lbs. .... \$17,500

### JA-80 60-W/ch Tube Power Amp

Pure Class A; core of output transformer acts like solid core for high efficiency; 2 chassis. 60 W/ch into 4 and 8 ohms. 154 lbs. .... \$11,500

### JA-30 30-W/ch Class-A Power Amp

Dual-mono (2 chassis); each transformer hand built for symmetry in resistance and self-inductance of coils; transformer encapsulated for optimal self-damping and thermal stability. 30 W/ch into 4 and 8 ohms. 97 lbs. .... \$5,750

## JRM

### Power Tower Power Amplifier

Basic integrated mono power amplifier features 2 dB dynamic headroom; power bandwidth 0.6-75,000 Hz; slew rate 100 V/ $\mu$ s; THD 0.02%; all-cascode design. .... \$2,500/pr

### Power Tower/B Pro Power Amplifier

Basic integrated mono power amplifier features 1.5 dB dynamic headroom; power bandwidth 0.6-75,000 Hz; slew rate 100 V/ $\mu$ s; THD 0.02%; all-cascode design. .... \$3,100/pr

## JVC

### ANZ911BK Power Amplifier

Digital pure-A circuit for Class-A operation; Dynamic Super-A; D/A converter directly connected to amp; built-in D/A converter with quadruple-oversampling digital filter; 3 digital connections: one optical, one coaxial, and one input/output for DAT; separate layout for digital and analog circuits; high-gain phono equalizer for MM/MC cartridges; low-noise motor-driven volume control; bass response control; gold-plated terminals; multi-function display; wireless remote control. 100 W/ch into 8 ohms from 20-20,000 Hz with no more than 0.003% THD. .... \$1,100

## KENWOOD

### Basic M2A Stereo Power Amplifier

Features Super Dynamic Linear Drive (DLD) dual-output power amplifier; low-impedance drive capability; dynamic power (EIA) 616 W/ch into 2 ohms; wide range FL peak power meters with selectable peak-hold and two hold times; Sigma Drive Type B; full circuit protection with thermostat-controlled fan cooling; two speaker pair selection; gold-plated input terminals; headphone jack; power indicator; muting relay. 220 continuous average W/ch from 20-20,000 Hz with no more than 0.004% THD into 8 ohms; damping factor 1,000 at 50 Hz. 17.31 x 6.25 x 14.69 in; 34.1 lb. .... \$695

### Basic M1D Stereo Power Amplifier

Features Voltage Interface Gate with Dynamic Linear Drive (VIG-DLD) amplifier; low-impedance drive capability; dynamic power (EIA) 210 W/ch into 2 ohms; FL peak power meters; full circuit protection; Sigma Drive type B; two speaker pair switching;

headphone jack; muting relay. 125 continuous average W/ch from 20-20,000 Hz with no more than 0.005% THD into 8 ohms; damping factor 1,000 at 100 Hz. 17.31 x 5.69 x 13.31 in; 21.5 lb. .... \$445

## KINERGETICS

### KBA-202 Gold Series 200-W/ch Power Amp

Zero overall feedback (feedback in output stage only); fully cascoded J-FET input stage; mono construction; DC servo control to eliminate capacitors in signal path; 24 output transistors; power supply for front end of each ch; 4 toroidal transformers; 300-joule power supply; military-grade glass circuit boards with 2-sided ground plane and 20-oz copper traces; AB operation; does not invert phase; hysteresis-distortion cancelling circuit. 200 W/ch into 8 ohms. 400 into 4; headroom 3 db; input imp 50,000 ohms; slew rate 100 V/ $\mu$ sec; voltage gain 30 (absolute); power bandwidth 1-400,000 Hz; small-signal bandwidth 1-1,000,000 Hz; 59 lb; 19 x 6 x 19 in. .... \$1,995/pr

### KBA-75 Gold Series 75-W/ch Power Amp

1-kVA power supply; dual-coil toroidal transformer; auto servo-controlled DC offset adjustment; constant current sources for Class A operation; high-power output transistors with wide linear region; no phase inversion; hysteresis-distortion cancelling circuit. 75 W/ch into 8 ohms. 150 into 4; headroom 3 db; input imp 50,000 ohms; slew rate 65 V/ $\mu$ sec; voltage gain 30 (absolute); power bandwidth 1-300,000 Hz; small-signal bandwidth 1-1,000,000 Hz; 45 lb; 19 x 6 x 16 in. .... \$1,295

### SW-200 Stereo Amplifier

System includes 150 W/ch. Output 300 W; crossover 100 Hz; compusound circuits; 17.25 x 4.75 x 8 in. .... \$599

SW-200 Mono Amplifier. Same as above but output 150 W. .... \$399

## KLYNE AUDIO ARTS

### SKX 120 Power Amplifier

Dual-mono power amp with 120 W/ch driven into 8 ohms. Features solid state construction; balanced and unbalanced inputs; separate power supplies for each channel; high-current complementary bipolar outputs; class A/AB; FR 0.5-200,000 Hz. 17 x 4.75 x 18.5 in; 45 lb. Approx. .... \$4,000

## KYOCERA

### B-910 150-W/ch Power Amplifier

Class AB power amp with triple push-pull high-frequency power stages; ceramic base/chassis; DC configuration; large-cutless-core power transformer; large honeycomb heatsinks; direct and subsonic inputs. 150 continuous average W/ch 20-20,000 Hz with no >0.02% THD into 8 ohms; FR DC-200,000 Hz  $\pm 3$  dB at 1 W; S/N 120 dB; damping factor 150 (50 Hz); 200 W/ch into 4 ohms with 0.03% THD; power bandwidth 10-50,000 Hz; input sens 1.5 V (30 kilohm); 17 x 8.25 x 15.75 in; 59.5 lb. .... \$2,000

## LAZARUS ELECTRONICS

### 200/200 Dual Hybrid Amplifier

200 W/ch hybrid amplifier. Features individual regulation for each voltage amplification stage; 1.2 V input sensitivity; Class A tube MOSFET hybrid circuitry. .... \$1,750

### H-1 Hybrid Power Amplifier

Pure (not sliding scale) Class A tube MOSFET hybrid power amp may be operated as a fully differential mono amp or as a stereo amp. May be configured (by dealer) as either Class A or Class A/B. 50 continuous average W/ch from 20-20,000 Hz into 8 ohms with no more than 0.2 THD; 100 W into 4 ohms; 200 ms dynamic power 600 W; dynamic headroom 3 dB, 8 ohms resistive; S/N 80 dB; IMD 0.2%; peak current 75 amperes. 19 x 3.5 x 16.5 in; 35 lb. .... \$1,599

## LINN PRODUCTS

### LK280 Stereo Power Amplifier

80 continuous average W/ch from 20-20,000 Hz; companion to LK1 preamp. 3 x 12.75 x 10.5-in; 19 lb. .... \$1,495

## LINEAGE

### PA-200 Stereo Power Amplifier

Features all-discrete audio circuitry; full-complementary direct-coupled filed-effect transistor design; complementary differential inputs; Class A operation in gain/driver stages; MOSFET output stages with Class AB1 operation; DC servo to eliminate all capacitors from audio stages; gold-plated input and output connectors; protection circuitry acting entirely outside of signal path; front-panel overload indicators. High-current ultra-stable design optimized for low distortion under rapidly changing speaker loads. Nominal rated power 100 W/ch into 8 ohms; 1-100,000 Hz bandwidth with no slew rate limiting. Matte silver with removable teak pedestal base. 17 x 12 x 6.36 (with base), 5.25 (without base) in. .... \$1,650

## LUXMAN

### M-117 Power Amplifier

Features 200 W/ch and low impedance drive capability; 3 pairs of large power devices; high energy power supply; 60,000  $\mu$ F of total filtering capacitance; gold-plated binding post speaker terminals; gold-plated input terminals; variable and fixed inputs. .... \$1,100

## McINTOSH

### MC-2500 Stereo Power Amplifier

500 W/ch power amplifier with Power Guard circuit. Features patented McIntosh Sentry Monitoring circuit which constantly monitors the signal to the output transistors to protect them from damage; left and right channel gain control; speaker on/off switch; peak-reading, peak-locking power meters; meter range selector; headphone jack. Power output: 500 W/ch both channels driven from 20-20,000 Hz with less than 0.02% THD; IMD <0.02% if instantaneous peak power output is less than 1,000 W/ch both channels driven; FR 20-20,000 Hz +0/-0.25 dB, 10-100,000 Hz +0.25/-1 dB; damping factor >30; input imp 50,000 ohms; input sens switchable, 0.75 or 2.5 V (level control provided for higher input voltages). Power Guard: THD not to exceed 2% with up to 20 dB overdrive at 1 kHz. Power Requirements: 120 V 50/60 Hz 0.7 to 22 amps. 15 amps UL/CSA. Standard 19" rack mounting; 129 lb. .... \$3,495

### MC-7270 Stereo Power Amplifier

270 W/ch power amplifier with Power Guard circuit. Features McIntosh Autoformer; left and right channel gain control; peak-reading, peak-locking power meters; meter selector. Power output: 270 W/ch both channels driven from 20-20,000 Hz with less than 0.02% THD; IMD <0.02% if instantaneous peak power output is less than 600 W/ch both channels driven; FR 20-20,000 Hz +0/-0.25 dB, 10-100,000 Hz +0/-2 dB; damping factor >30; input impedance 20,000 ohms; input sensitivity switchable, 0.75 or 2.5 V (level control provided for higher input voltages). Power Guard: THD not to exceed 2% with up to 20 dB overdrive at 1 kHz. Power Requirements: 120 V 50/60 Hz, 13 amps. 16.2 x 7.13 x 14.5 cm; 82 lb. .... \$2,295

### MC-2002 Stereo Power Amplifier

200 W/ch power amplifier with Power Guard circuit. Features McIntosh Sentry Monitor circuit; DC failure protection; power line surge protection; peak responding power meters. Power output: 200 W/ch into 8 ohms both channels driven from 20-20,000 Hz with less than 0.01% THD; IMD <0.02% at any power level below rated power both channels driven; FR 20-20,000 Hz +0/-0.25 dB, 10-100,000 Hz +0/-3.0 dB; damping factor >100; input impedance 20,000

# POWER AMPLIFIERS

ohms; input sens switchable, 1.4 or 2.5 V; IHF dynamic headroom 1.7 dB at 8 ohms. Power requirements: 120 V 50/60 Hz, 0.6-1.5 amps. 16.19 x 7.13 x 14.5; 50 lb. .... \$1,850

## MELOS AUDIO

### TM-90 ST Power Amplifier

Stereo power amp with toroidal power transformer, regulated power supplies using tubes and transistors. Wide bandwidth output transformers; triple triode driver tubes; LED indicators. 80 W/ch; total harmonic distortion no more than 0.5%; frequency response 8-45,000 Hz  $\pm$  1.5 dB; S/N 85 dB; sens at rated power 1.5 V. 17.5 x 7.5 x 13.5 in. .... \$1,495

## MARK LEVINSON BY MADRIGAL

### No. 20 100-W/ch Mono Reference Amp

Class-A highly biased mono amp with fully regulated power to all audio stages; internal spike and surge suppression; RF filtering of raw AC from outlet to reduce noise; separated + and - supply rails each with their own toroidal power transformer, full-wave bridge rectification, and filter capacitors to prevent cross modulation between rails; electronic regulation to refine power used by signal-carrying circuits; 3 high-current devices to drive output stage; electronic protection against abuse; all gain stages controlled at clipping; balanced inputs with Camac connectors; Neutrik-XLR connector; internal switching to adjust for operation at 90-240 V AC. 100 watts per channel into 8 ohms, 200 W into 4 ohms. 17.5 x 8.25 x 22 inches; 90 pounds Faceplate also available in 19" width. .... \$10,800/pr

### No. 23 Dual-Mono 100-W/ch Power Amp

2 separate mono amps in single chassis; AC mains filtering; film capacitors; surge limiting; 2 power supplies for each L and R ch; oxygen-free copper bars supply output stage with +84-V DC rails; triple bypassing; output supply capacitance of 146,000  $\mu$ farads and 2-1.2 KVA transformers produce 240 joules of stored energy; full-wave bridge rectifier; independent tracking for + and - rails; only bipolar devices in gain stages; inverting input for full balanced connection; 50-kohm imp through audio bandwidth; output stage operates in class AB; controlled clipping; external line and internal fuses; thermal sensors. 100 W/ch into 8 ohms, 200 into 4, 350 into 2; gain 26 dB; damping factor > 700 (50 Hz ref to 8 ohms); 83 lb; 17.5 x 8.5 x 15 in (18" d with handles). .... \$4,700

### ML-11 Stereo Power Amplifier

All discrete circuitry; Class-A operation in voltage gain and driver stages; Class AB2 operation in output stage. Power supply of 320 VA toroidal power transformer, 2 12-ampere bridge rectifiers, 4 10,000  $\mu$ F filter capacitors, for separate rectification and 20 joules of energy storage for each ch. Six 200 W, 15 ampere power transistors per ch enable ML-11, when pulsed, to develop 25 volts peak, at peak currents up to 12.5 amperes (312.5 W peak) per ch. Optional externally programmable voltage-limiting circuit reduces voltage output to protect speakers; gold-plated binding posts for output connections and Camac input connectors; hand-brushed black anodized faceplate. 8.62 x 19 x 12 in; 25 lb. .... \$2,100

## MOTIF BY CONRAD JOHNSON

### Motif MS100 100-W/ch Power Amp

With MOSFET output stage; extensive use of large-value polystyrene capacitors. 100 continuous average W/ch from 20-20,000 Hz with no more than 0.1% total harmonic distortion into 8 ohms; frequency response 20-20,000 Hz  $\pm$  0.10 dB; signal-to-noise ratio 100 dB; 7 x 19 x 18.5 in.; 45 lb. .... \$3,250 MS50. Similar to MS100 with 50 watts per channel output. .... \$2,350

## NAD

### 2600 Monitor Series Power Amplifier

Monitor Series power amplifier with 150 W/ch. Features power envelope circuitry; +4 dB dynamic headroom; stereo/mono power amp; bridgeable; high voltage, high current capacity; speaker impedance selector; input level controls; close tracking Soft Clipping circuit; rack mountable. .... \$798

### 2200PE Power Amplifier

Stereo/mono power amp. Features high voltage, high current design; bridgeable; new soft clipping circuit; audible clipping indicator on front panel. 100 continuous average W/ch from 20-20,000 Hz with no more than 0.03% THD into 8 ohms; FR 3-80,000 Hz +0, -3 dB; S/N > 91; dynamic headroom +6 dB; slew rate > 35 V/ $\mu$ sec. 16.5 x 4.8 x 14.5 in. .... \$628

### 2400 Monitor Series Power Amplifier

100 W/ch; power envelope circuitry; 480 W IHF dynamic power; +6.2 dB dynamic headroom; input level controls; A,B, A & B speaker switching; Soft Clipping circuit; bridgeable; land and normal inputs; rack mountable. .... \$598

### 2100 Monitor Series Power Amplifier

50 W/ch; power envelope circuitry; 270 W IHF dynamic power; +6.6 dB dynamic headroom; input level controls; A,B,A & B speaker switching; Soft Clipping circuit; bridgeable; lab and normal inputs; rack mountable. .... \$398

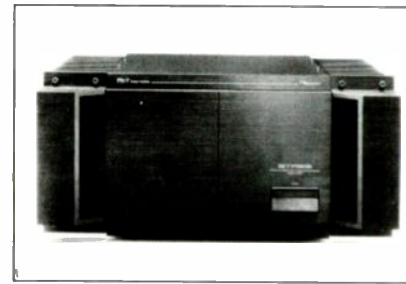
### 2240PE Power Amplifier

40 W/ch; power envelope circuitry; +6 dB dynamic headroom; speaker imp selector; Soft Clipping circuit. .... \$328

## NAKAMICHI

### PA-7 Power Amplifier

Power amp utilizes Stasis topology. Features 700-W toroidal power transformer; 33,000 microFarad x 4 filter capacitors; dual rectifiers; 16 transistors per ch.



200 continuous average W/ch from 20-20,000 Hz with <0.1% THD into 8 ohms; FR 7-150,000 Hz +0, -3 dB; S/N > 120 dB; dynamic headroom 1.7 dB; IMD <0.1%; output current capability 18 amps continuous (50 amps peak); dynamic output power 300 W/ch into 8 ohms; power bandwidth 5-50,000 Hz (8 ohms, 100 W, 0.1% THD); 17.12 x 7.88 x 16.56 in; 59 lbs, 8 oz. .... \$1,850

PA-5. Similar to above but 100 W/ch. 17.12 x 5.31 x 14.5 in; 35 lb, 4 oz. .... \$1,195

## NEC

### Renaissance Series

### M-50 Monaural Power Amplifier

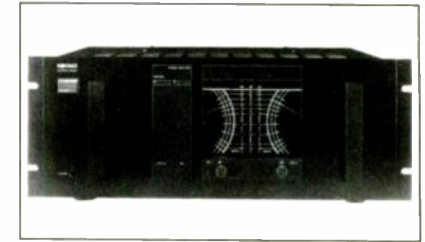
Single-channel power amp with 3 switch-selected inputs. Features variable-frequency low- and high-cut filters; vibration-free construction; large FI power meter; separate circuit construction; industrial-grade twin-crossbar relays with gold-plated contacts; sculptured brass terminals; heavy-duty speaker terminals. Rated power output 50 W into 8 ohms from 20-20,000 Hz with 0.004% THD, 100 W into 4 ohms with 0.006% THD; dynamic power 240 W into 2 ohms,

direct input; FR 5-300,000 Hz; S/N > 115 dB (direct input). 8.3 x 4.7 x 15 in; 18 lb. .... \$375

## NIKKO AUDIO

### Alpha 2000 Power Amplifier

Power amplifier with transistors mounted directly on pin-fin sink structure; protection circuitry guards



against stray DC, input short, dynamic power bursts, and thermal problems; back panel features AWG-24 output speaker terminals; gold plated input jacks; cannon connectors; BT1 circuit to bridge mono operation; power bandwidth 5-40,000 Hz; FR 5-100,000 Hz +0/-0.5 dB; THD .002%; S/N 120 dB; channel sep 65 dB; sens 1000 mV; imp 47k ohms. .... \$1,800

### Alpha 800 Power Amplifier

Power amplifier with transistors mounted directly on pin-fin sink structure; protection circuitry guards against stray DC, input short, dynamic power bursts and thermal problems; back panel features AGW-24 output speaker terminals; gold plated input jacks; power bandwidth 5-80,000 Hz; FR 5-100,000 Hz +0/-2 dB; THD .003%; S/N 101 dB; sens 1000 mV; imp 47k ohms. .... \$1,300

Alpha 600 Power Amplifier. Similar to Alpha 800 but: FR 5-100,000 Hz +0/-1 dB; THD .002%; S/N 10 dB; sens 1000 mV; imp 50k ohms. .... \$760

Alpha 400 Power Amplifier. Similar to Alpha 600 but: S/N 115 dB; imp 47k ohm. .... \$550

## ONIX BY MUSIC HALL

### OA601

Power amplifier, 60 W/ch. .... \$1,595

### OA401

Power amplifier, 40 W/ch. .... \$1,050

## ONKYO

### Grand Integra M-510 Power Amplifier

Dual-mono power amp with real-phase power supply. Features 3 separate power supplies (left, right, aux for lights, meters etc.); speaker-imp range down to 1 ohm; calibrated power meters accurate to 1 dB; A + B speaker systems; adjustable meter sens. 300 continuous average W/ch into 8 ohms from 20-20,000 Hz with no more than 0.005% THD; 500 W/ch into 4 ohms; 2-ms dynamic power 400 W into 8 ohms; S/N 120 dB; IMD 0.003%; dynamic power 750 W into 4 ohms, 1,300 W into 2 ohms. .... \$4,500

### Grand Integra M-508 Power Amplifier

Dual-mono power amp with real-phase power supply. Features 4 x 2 high-current storage capacitor block; calibrated high-speed power meters; A + B speaker systems; low-imp drive capability; variable and direct inputs. 200 continuous average W/ch into 8 ohms from 20-20,000 Hz with no more than 0.003% THD; 200-ms dynamic power 265 W into 8 ohms; S/N 122 dB; IMD 0.002%; dynamic power 460 W into 4 ohms, 685 W into 2 ohms. .... \$1,200

### Integra M-504 Power Amplifier

Dual-mono power amp with real-phase power supply. Features peak-reading power meters; A + B speaker systems; low-imp drive capability; high-current output stage; heavy-duty 5-way banana-plug speaker connectors. 150 continuous average W/ch



# Ultimate Power.



With a worldwide reputation for sonic excellence, the new Luxman Receivers also deliver more power than before. . .

# LUXMAN

# Ultimate



R-117 AM/FM Stereo Remote-Control Receiver.

For over 60 years, Luxman components have earned the highest accolades for their musical warmth and transparency. In the past, however, Luxman's receivers were designed to deliver optimum results with analog source material and conventional loud-speaker designs. Now, the increased popularity of the compact disc format has created a new demand for higher performance.

## *The digital era.*

Compact discs have a dynamic range that far exceeds that of phonograph records and cassette tapes. This requires receivers with greater reserve power to smoothly handle the most intense volume levels.

In addition, the clarity and wider dynamics of CD's have encouraged speaker manufacturers to introduce new designs with improved sonic performance. However, several of these new speaker designs expose receivers to extremely low impedance loads that demand higher current output.

Plus, the CD's remarkable sonic realism has also ignited a whole new interest in listening to music that, in many households, has resulted in multiple speaker arrangements and multiple-room speaker installations. These combined loads pose additional threats to the stability and clarity of a receiver with insufficient reserve power.

## *The new Luxman receivers.*

To ensure the sonic integrity of CD's into a variety of speaker loads, Luxman has incorporated

massive power supplies with high energy reserves to ensure distortion-free transients. High-current, bipolar transistors are then carefully selected in matched pairs to preserve total sonic integrity at high dynamic levels.

This rugged design technique accommodates the highest demands of both digital software and low impedance loads. But high power is only half of the story. . .

## *Ultimate fidelity.*

The heart of a Luxman receiver is still the warm, musical feeling that has resulted from decades of research on how vacuum tube amplifiers reproduce music so faithfully.

To achieve this same type of "tube-like" transparency and naturalness, Luxman receivers employ transistors in a voltage-driven amplification configuration that performs the main current conversion only at the output.

In addition, sophisticated circuit designs, including Duo-Beta circuitry, STAR circuit patterns and LED bias circuitry, are utilized to obtain that extra degree of musical purity that conventional receivers ignore.

## *Ultimate power.*

The best of both worlds. It's the purity and musical warmth of the original source, *plus* high dynamic power output. This combination ensures total sonic integrity at all volume levels. In today's Luxman receivers, we call it "Ultimate Power".



# Power.



R-115 AM/FM Stereo Remote-Control Receiver.



R-113 AM/FM Stereo Receiver.

## “Ultimate Power” Receivers.

The R-117, rated at 160 watts per channel, is capable of supplying up to 600 watts of dynamic power into 4-ohm loads, and 700 dynamic watts into 2-ohms. The amplifier section is backed by a massive triple-shielded high-energy power transformer and fast recovery rectifier diodes to maintain high energy reserves under all load conditions.

Similarly, the R-115, rated at 70 watts, can provide up to 200 dynamic watts into 4 ohms, and 270 watts into 2ohm loads. And, with its heavy, double-shielded power transformer and high efficiency, it provides a full 3dB of dynamic headroom.

Both incorporate a new 5-gang varactor, dual-gate MOSFET FM front end, with automatic hi-blend circuitry, that ensures clean, distortion-free FM performance.

The R-113, the most affordable model in Luxman’s new line of receivers, includes a high-speed dynamic amplifier that delivers up to 100 dynamic watts into a 2-ohm load. And a high-efficiency toroidal power transformer is coupled with high energy storage capacitors to provide the dynamics and steady-state reserves necessary for the most demanding musical transients.

All three receivers employ voltage amplification circuitry that ensures the “tube-like” musical warmth of traditional Luxman amplifiers. In addition, CD Straight circuitry routes the input signals past all signal processor and switching functions to

provide optimum accuracy, imaging and impact when listening to compact discs.

Complementing this performance are an array of advanced features that lend versatility and precise control over a wide range of functions. Both the R-117 and R-115 even include a hand-held remote that can operate a complete system of components.



Technology Perfected, by Luxman

Features	R-113	R-115	R-117
20 AM/FM random access memories	X	X	X
Auto seek tuning	X	X	X
AM/FM memory scan	X	X	X
Cable-ready FM fine-tuning	X	X	X
FM muting	X	X	X
FM IF bandwidth switch		X	X
Multipath detection circuit & indicator			X
CD straight switch	X	X	X
Tone defeat switch		X	X
MC/MM cartridge switch			X
Tape monitor switch	X	X	
Record-out selector switch			X
Three-position loudness switch			X
Multi-function remote control		X	X
Unified remote DIN jacks		X	X
Unified remote serial output jack		X	X
Remote eye connection (DIN)		X	X
Signal processor jacks/switch	X	X	X
Pre-out jacks	1 pair	1 pair	2 pairs
Main-in jacks			1 pair
Speaker terminals accept single banana	3-way	3-way	3-way

# LUXMAN

## "Ultimate Power" Receivers.

Performance Specifications	R-113	R-115	R-117
Rated continuous power output, per channel. (8 ohms, 20Hz-20kHz)	35W	70W	160W
Dynamic power output, per channel (1k Hz, 20 ms):			
8 ohms	50W	140W	440W
4 ohms	84W	200W	600W
2 ohms	100W	270W	700W
Dynamic headroom, 8 ohms	1.5 dB	3 dB	4.4 dB
Total harmonic distortion (20Hz-20kHz, rated power)	0.08%	0.03%	0.03%
IM distortion (SMPTE)	0.08%	0.03%	0.03%
Damping factor (50Hz, 8 ohm load)	40	50	80
Input sensitivity/impedance:			
Phono (MC)	N/A	N/A	0.22 mV/100 ohms
Phono (MM)	2.5 mV/47K ohms	2.5 mV/47K ohms	2.5 mV/47K ohms
CD, Tape, Video	150 mV/47K ohms	150 mV/47K ohms	150 mV/47K ohms
Input overload:			
Phono (MC)	N/A	N/A	13.2 mV
Phono (MM)	200 mV	150 mV	150 mV
CD, Tape, Video	9 V	9 V	9 V
Signal-to-noise ratio (IHF-A):			
Phono MC (re 0.5 mV)	N/A	N/A	70 dB
Phono MM (re 5 mV)	88 dB	98 dB	88 dB
CD, Tape, Video (re 0.5 V)	96 dB	98 dB	100 dB
Frequency response:			
Phono, RIAA 20Hz-20kHz	±0.5 dB	±0.5 dB	±0.5 dB
CD, Tape, Video @ -3.0 dB	5Hz-200kHz	5Hz-180kHz	5Hz-180kHz
Total control range:			
Bass	±10 dB at 100Hz	±10 dB at 100Hz	±10 dB at 100Hz
Treble	±10 dB at 10kHz	±10 dB at 10kHz	±10 dB at 10kHz
Subsonic filter:			
Turnover frequency	18Hz	15Hz	15Hz
Slope	6 dB/octave	6 dB/octave	6 dB/octave
Loudness compensation:			
At 100Hz	+6 dB	+6 dB	+3, +6 dB
At 10kHz	+4 dB	+4 dB	+2, +4 dB
<b>FM TUNER SECTION:</b>			
Usable sensitivity (IHF) (mono)	10.8 dBf	10.3 dBf	10.3 dBf
Sensitivity, 50 dB quieting:			
Mono	14.0 dBf	13.2 dBf	13.2 dBf
Stereo	38.0 dBf	36.6 dBf	36.6 dBf
S/N ratio (IHF "A"):			
Mono	80 dB	80 dB	80 dB
Stereo	74 dB	75 dB	75 dB
Total harmonic distortion:			
Mono (1kHz)	0.1%	0.08%	0.08%
Stereo (1kHz)	0.18%	0.10%	0.10%
Stereo separation (1kHz):	45 dB	N/A	N/A
Wide I.F.	N/A	50 dB	50 dB
Narrow I.F.	N/A	35 dB	35 dB
Auto hi-blend threshold (8 dB at 10kHz)	N/A	35 dBf	35 dBf
Adjacent channel selectivity:			
Wide I.F.	60 dB	N/A	N/A
Narrow I.F.	N/A	50 dB	50 dB
Narrow I.F.	N/A	75 dB	75 dB
Capture ratio (at 45 dBf)	1.5 dB	1.5 dB	1.5 dB
Image rejection (at 106.1 MHz)	40 dB	100 dB	100 dB
Spurious response rejection	80 dB	100 dB	100 dB
Frequency response (30Hz - 15kHz)	+0.5, -1.0 dB	+0.5, -1.0 dB	+0.5, -1.0 dB
<b>AM TUNER SECTION:</b>			
Usable sensitivity (1000kHz)	380 µV/m	500 µV/m	500 µV/m
S/N ratio (1000kHz, 100 mV)	50 dB	50 dB	50 dB
Total harmonic distortion (30% Mod)	0.2%	0.5%	0.5%
Selectivity (±10kHz)	30 dB	50 dB	50 dB
<b>GENERAL:</b>			
Power supply	120V AC, 60Hz	120V AC, 60Hz	120V AC, 60Hz
Power consumption (no signal)	55 watts	66 watts	66 watts
Dimensions (WxHxD)	17¼"x4¼"x13½"	17¼"x5½"x16 11/16"	17¼"x5½"x16 11/16"
Weight	13.4 lb.		35.2 lb.

# LUXMAN

*For your authorized dealer, call:*

## 1-800-4 LUXMAN

CIRCLE NO. 76 ON READER SERVICE CARD



# POWER AMPLIFIERS

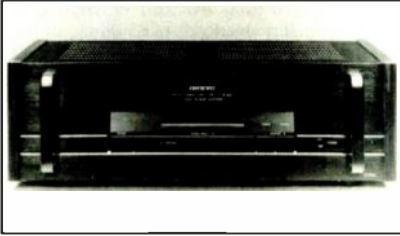
into 8 ohms from 20-20,000 Hz with no more than 0.003% THD, 240 W/ch into 4 ohms; S/N 120 dB; IMD 0.002%; dynamic power 190 W into 8 ohms, 360 W into 4 ohms, 480 W into 2 ohms. 17.12 x 7.25 x 16.75 in.; 49 lb. .... \$830

## Integra M-502 Power Amplifier

Dual-mono power amp with linear switching. Features 140 W/ch rms; 425 W/ch dynamic output into 2 ohms; full dual-mono design; low-impedance drive discrete output section; 4-way speaker selector \$650 CW-M504. Wood sidepanels for above ..... \$85

## M-5160 Power Amplifier

Features Delta power supply; 150 W/ch rms; 4-way speaker selector ..... \$360



## PARASOUND

### D/AS-1000II Power Amplifier

FET digital/analog servo amplifier. Features 60 MHz output transistors, 4 per channel; gold-deposited 80,000 mfd electrolytic capacitors; gold-plated RCA jacks; .25" phone jacks; 5-way terminals; front panel level controls; mono bridging; 3-relay protection; digitally switched, bi-state power supply; 19" rack mount optional; THD <0.1%; FR 20-20,000 Hz  $\pm$  0.5 dB; S/N >110 dB; 17.25 x 5.5 x 12.5 in. .... \$720

### HCA-800II Discrete Amplifier

High current discrete amplifier. Features 60 MHz outputs; gold deposited 36,000 mfd electrolytic capacitors; mono bridging with rear panel switch; gold-plated RCA jacks; .25" phone jack; 5-way terminals; front panel level controls; speaker A/B terminals; headphone jack; relay protection 19" rack mountable; THD <0.1%; FR 20-20,000 Hz  $\pm$  0.5 dB; S/N >104 dB; 17.25 x 3.75 x 11.75 in. .... \$365

### HCA-500 Discrete Amplifier

High current discrete amplifier. Features no integrated circuits; oversized power transformer; RCA jacks; .25" phone jacks; 5-way terminals; front panel level controls; relay protection indicator; 19" rack mountable; THD <0.25%; FR 20-20,000 Hz  $\pm$  0.5 dB; S/N >100 dB; 17.25 x 3.75 x 11.75 in. .... \$265

## PERREAUX

### PMF5550 500-W/ch Power Amplifier

Features Class-A operation up to 50 W/ch. 500 W/ch into 8 ohms from 20-20,000 Hz with no more than 0.03% THD; suitable for 4 ohm use; continuous current output 30 amps; FR 20-20,000 Hz  $\pm$  0.02 dB, 10-100,000 Hz  $\pm$  0.5 dB; ch sep 60 dB 20-20,000Hz; damping factor over 200 from 10-1000 Hz; input sens 1.5 volts rms for rated output at 100 Hz. 20.25 x 19 x 20.5-in. .... \$6,500

### PMF3150 Dual-Channel Power Amplifier

Class A operation up to 30 W/ch. 300 W/ch. into 8 ohms from 20-20,000 Hz with no more than 0.03% THD; suitable for 4 ohm use; MOSFET circuitry; THD/IMD 0.03%; max current output 10 amps continuous per ch.; bandwidth 0.5 dB from 10 Hz to 3,000,000 Hz at 1 watt; channel sep >70 dB; damping factor >400 from 10 Hz to 1,000 Hz; input sens 1.5 volts rms for rated output at 1,000 Hz \$3,000

### PMF2350 Power Amplifier

Features 200 W/ch into 8 ohms from 20-20,000 Hz with no more than 0.01% THD; Class-A operation to

20 W/ch; channel sep 20-20,000 Hz 70 dB; damping factor 1,000 at 200 Hz, over 400 from 10 to 1,000 Hz; input sens 1.5 volts rms for rated output at 1,000 Hz. 6.25 x 19 x 6.25-in; 34 lb. .... \$2,500

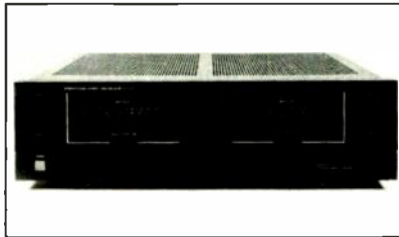
## PIONEER

### Elite M-90 Power Amplifier

Features CD direct input with volume control; low-impedance driving capability; independent L/R mono construction; copper-plated chassis; non-switching Type-II circuit; 2 pair speaker outputs; FL power level indicator; rosewood-finished vinyl-covered side panels. 200 continuous average W/ch from 5-50,000 Hz into 8 ohms with no more than 0.003% THD; dynamic power 300 W at 8 ohms, 550 W at 4 ohms. 10.4 x 22.5 x 21.2 in. .... \$950

## PROTON

### D1200 Power Amplifier



100-W/ch stereo power amp with Dynamic Power on Demand (DPD) to deliver as much as 1,500 W/ch (2 ohms) at peak demand, with 6 dB headroom. Features one-touch bridging and wide-range power-output meters. 16.5 x 4.31 x 9.75 in; 33 lb. .... \$699

### AA-1150 Power Amplifier

50-W/ch dual-mono power amp with Dynamic Power on Demand (DPD) to deliver as much as 450 W/ch at peak demand, with 7 dB headroom. Features separate power supplies for each channel; dual peak-level power meters; LED DPD indicator; protection circuitry; gold-plated connectors; high-current capacity; power switch. S/N 115 dB; THD 0.02%; IMD 0.02%; damping factor >150. 19 x 4.3 x 14.4 in; 25.3 lb \$499

## PS AUDIO

### 200CX Power Amplifier

Features 200 W into 8 ohms, 400 W into 4 ohms; noise -90 dB; THD 0.02%; slew rate 250 V/msec. 69.9 lb. .... \$1,950

### 100C Power Amplifier

Features 120 W into 8 ohms, 200 W into 4 ohms; noise -90 dB; THD 0.02%; slew rate 250 V/msec. 35 lb. .... \$1,195

## QUICKSILVER AUDIO

### Mono Power Amplifier

Hand-wired, tube-type amp using no transistors or circuit boards. 60 continuous average W/ch from 20-20,000 Hz into 8 or 4 ohms. Can drive 0.5-ohm loads. 30 lb; 9.25 x 6.06 x 14.36 in. .... \$720

## QUAD

### Model 606 Power Amplifier

Power amp with feed-forward error correction (current dumping) combines clarity of Class A operation with efficiency of Class B. Designed to play dynamic program into speakers. Is not rated for continuous power. Protection circuitry uses a sensor on AC-input side of power supply to integrate current over time. No fuses or relays located in signal path. Detailed static and dynamic power curves available upon request from manufacturer. THD (continuous sine wave in 8-ohm resistive load any level up to 130 W) <0.01% at 20 Hz, <0.01% at 1,000 Hz, <0.03% at

20,000 Hz; FR 20-20,000 Hz -0.25 dB. 12.75 x 5.5 x 9.5 in; 27 lb. .... \$1,295

### Model 306 Power Amplifier

Power amp with feed-forward error correction (current dumping) combines clarity of Class A operation with efficiency of Class B. Designed to play dynamic program into speakers. Is not rated for continuous power. Protection circuitry uses a sensor on AC-input side of power supply to integrate current over time. No fuses or relays located in signal path. Detailed static and dynamic power curves available upon request from manufacturer. THD (continuous sine wave in 8-ohm resistive load any level up to 50 W) <0.01% at 20 Hz, <0.01% at 1,000 Hz, <0.03% at 20,000 Hz; FR 20-20,000 Hz -0.25 dB. 12.75 x 2.75 x 8.25 in; 11 lb. .... \$695

## RCA

### MPA120 Power Amplifier

Dimensia power amplifier with automatic power-on and on-screen volume graphics when used with Dimensia monitor. Features fluorescent output display with peak hold; LED power and overload indicators; quick-connect speaker terminals; display on/off switch; headphone jack; A/B speaker switching; AC convenience outlet. Power output: 120 W/ch into 8 ohms from 20-20,000 Hz with no more than 0.015% THD; S/N 88 dB. 14.63 x 4.75 x 13.75 in \$399

### MPA100 Power Amplifier

Dimensia power amplifier with automatic power-on and on-screen volume graphics indication when used with Dimensia monitor. Features quick-connect speaker terminals; headphone jack; A/B speaker switching; AC convenience outlet. Power output: 100 W/ch into 8 ohms from 20-20,000 Hz with no more than 0.015% THD; S/N 88 dB. 14.63 x 4.75 x 13.75 in. .... \$299

## REVOX

### B242 Power Amplifier

High-output power amp capable of driving loads from 2-8 ohms at rated levels. Features dual independent power supplies; DC voltage control; electronic short-circuit protection; temperature sensor to activate fan cooling; auto on/off switching responds to signal from preamp; 4/8-ohm speaker output switch; LED bar-graph output meter; heavy-duty output connectors. 200 continuous average W/ch from 20-20,000 Hz with no more than 0.03% THD, 300 W into 4 ohms; dynamic headroom 2.5 dB into 8 ohms; S/N 117 dB; rise time -2  $\mu$ s; damping factor 200 (1 kHz 8 ohms); sep 80 dB at 1,000 Hz. 18 x 6 x 14 in; 37.5 lb. .... \$3,000

## ROTEL

### RB890 Stereo Power Amplifier

Power amp with 160 continuous average W/ch from 20-20,000 Hz into 8 ohms with no more than 0.03% THD; bridgeable to 480 watts/8 ohms; high-current close-tolerance components. .... \$749

### RB870BX Stereo Power Amplifier

100 watt power amp bridgeable with RA870 (integrated amp) for 300 watts into 8 ohms. .... \$549

### RB850 Stereo Power Amplifier

50 W/ch bridgeable to 150 W into 8 ohms. .... \$299

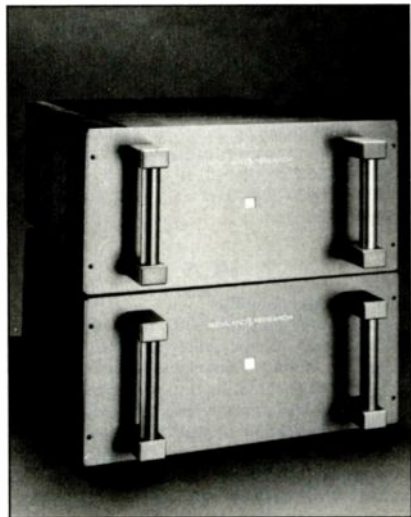
## JEFF ROWLAND DESIGN GROUP

### Model 7 Monaural Power Amp

Solid-state mono power amp with FET front-end circuitry and bipolar outputs. Features direct-coupled zero-negative-feedback circuitry to eliminate all capacitors and inductors from signal path; separate power supplies for front-end circuitry; toroidal power supplies with 132,000-microfarad capacitance for over 500 joules of energy; remote AC power switching; internal voltage switching (100V-240V

# POWER AMPLIFIERS

AC). Balanced or unbalanced inputs standard with XLR connector. Adjustable input imp for optimum input cable termination. Class A operation to over 50 watts. 350 W continuous power output into 8 ohms, 1,100 W into 2 ohms, stable below 1 ohm. 150 amps



peak output current, 50 amps continuous. Damping factor > 300, 20 Hz-20,000Hz; 135 lb ea; 19 x 8.75 x 24 in ..... \$9,800/pr

## Model 5 Stereo Power Amplifier

Solid-state power amp with FET front-end circuitry and bipolar outputs. Features direct-coupled zero-negative-feedback circuitry; separate power supplies; toroidal power transformer with 164,000-microfarad total capacitance; remote AC power switching; internal universal voltage switch; balanced or unbalanced inputs standard with XLR connector; adjustable input imp; Class A operation to over 35 watts. 150 W/ch continuous power output into 8 ohms, 475 W into 2 ohms, stable below 1 ohm; damping factor > 175, 20-20,000 Hz; 75 amps peak output current; 30 amps continuous. 103 lb; 19 x 8.75 x 24 in ..... \$5,500

## Model 3 Mono Power Amplifier

Solid-state power amp with bipolar outputs with FET inputs. Features direct-coupled zero-negative-feedback circuitry; separate power supplies for front-end; toroidal power transformer stable to 1 ohm; remote power switching; balanced or unbalanced inputs standard; adjustable input imp. 100 W into 8 ohms, 220 into 4 ohms, 330 into 2 ohms; peak output current over 55 amps. 15.2 x 5.25 x 14 in; 44lb ..... \$4,550/pr

## SAE

### X10A Power Amplifier

Hypersonic Class A power amp. Features gold-plated connectors; toroidal transformer; wide/narrow band inputs; LED true power meters; anodized gray finish. 100 continuous average W/ch from 20-20,000 Hz with no more than 0.025% THD into 8 ohms; FR 20-20,000 Hz  $\pm 0$  dB; S/N 110 dB; dynamic headroom 1.2 dB; slew rate 20 amps/ $\mu$ s; IMD 0.02%; 19 x 3.5 x 12.5 in; 28 lb. .... \$900

### A502 Power Amplifier

Power amp with automatic bridging circuit. 200 continuous average W/ch from 20-20,000 Hz with no more than 0.025% THD into 8 ohms; 600 W mono operation. Features dual-speaker system switching; peak and average LED power display. Rack mountable. FR 20-20,000 Hz  $\pm 0$  dB; S/N 110 dB; dynamic headroom 1.2 dB; IMD 0.025%; 19 x 5.25 x 14 inches; 48 lb ..... \$799

### A202 Power Amplifier

Power amplifier with 100 W/ch and balanced, discrete outputs. Features dual-speaker switching;

peak and average level LED power display. Rack mountable. 100 continuous average W/ch from 20-20,000 Hz with no more than 0.025% total harmonic distortion into 8 ohms; frequency response 20-20,000 Hz  $\pm 0$  dB; signal-to-noise ratio 110 dB; dynamic headroom 1.2 dB; intermodulation distortion 0.025%; 19 x 3.5 x 14 in; 31 lb ..... \$499

## SANSUI

### B-3000 120-W/ch Power Amplifier

Features 120 W/ch driven into 8 ohms from 20-20,000 Hz with 0.05% THD; DC servo circuit; 2 power meters; range control; separate heatsinks for left and right channels; short detection; zero voltage detection; thermal detection; headphone jack; outputs for 2 speaker systems. IMD 0.01%; FR 5-100,000 Hz; S/N 120 dB. .... \$260

### B-1000 75-W/ch Power Amplifier

Features 120 W/ch driven into 8 ohms from 20-20,000 Hz with 0.05% THD; DC servo circuit; 2 power meters; range control; separate heatsinks for left and right channels; short detection; zero voltage detection; thermal detection; headphone jack; outputs for 2 speaker systems. IMD 0.01%; FR 5-100,000 Hz; S/N 120 dB. .... \$210

## SONOGRAPHE BY CONRAD-JOHNSON

### SA120 120-W/ch Power Amp

Features MOSFET output stage; 120 W/ch into 8 ohms; S/N 100 dB; 5.25 x 18 x 12-in. .... \$895

## SONY

### TA-N77ES 270-W/ch Power Amplifier

Features spontaneous twin drive power supply; low-impedance drive capability; mono operation at 580 W into 8 ohms from 20-20,000 Hz with 0.007% THD; chimney-style heatsinks; fixed and variable inputs 2 independent protection circuits; peak level power meters; 2 sets of speaker terminals. 270 W continuous into 4 ohms, 20-20,000 Hz with 0.006% THD; damping factor 100; slew rate 150V/ $\mu$ sec, 300V/ $\mu$ sec (inside) ..... \$1,200

## SOUNDCRAFTSMEN

### A5002 Power Amplifier

Power amp with Class H Vari-Proportional circuitry and autobuffer for continuous operation into 2 ohms, 4 ohms, and 8 ohms. Features auto crowbar-protection circuit for output protection without current limiting; 20 LED/ch 0-1,000 W  $\pm 3$  dB (4 ohms) meters; front-panel switching for 2 pairs of speakers; true clipping indicators; input level controls. Output power 250 W/ch into 8 ohms, 375 W into 4 ohms continuous rms, 20-20,000 Hz at <0.09% THD; S/N > 105 dB; slew rate > 50 V/ $\mu$ s; TIM < 0.02%; dynamic headroom > 2 dB ..... \$949  
A5001. Same as A5002 except no LED meters and no input level controls ..... \$799

### Pro-Power Four Power Amplifier

Ultra-high-current MOSFET power amp with dual 20-segment LED meter true clipping indicators, 2-pair speaker switching. 205 continuous average W/ch from 20-20,000 Hz into 8 ohms with no more than 0.05% THD, 300 W into 4 ohms, 450 W into 2 ohms; S/N 105 dB; slew rate 40 V/ $\mu$ s; IMD 0.05%. 19 x 5.25 x 11 in; 28 lb ..... \$799

**Pro-Power Three.** As above without level controls and LED meters. .... \$699

### Pro-Reference Two Power Amplifier

MOSFET stereo power amp with 20-LED power meters. Features switching for 2 pairs of speakers; input level controls; true clipping indicators; brushed aluminum with charcoal finish rack-mount front panel. Output power 100 W/ch into 8 ohms, 200 W/ch into 4 ohms, continuous rms, 20-20,000 Hz at <0.05% THD; S/N > 105 dB; damping factor 200. .... \$699

**Pro-Reference One.** Same as above without LED meters ..... \$599

### PCR800 Power Amplifier

Phase-control-regulation MOSFET stereo power amp. 205 W/ch continuous rms; 20-20,000 Hz into 8 ohms; THD 0.05%; TIM unmeasurable; S/N > 105 dB; 18 lb; 5 x 8.25 x 12 in. .... \$499  
**PM840 Power Amplifier.** Same as above except high current circuitry added for 300 W/ch at 4 ohm; 450 W/ch at 2 ohm ..... \$549

## SPECTRASCAN

### BPA-101B Class AB Power Amplifier

Utilizes proprietary-nested, multiple-feedback loops. DC-coupling with highly regulated power supply. Instant recovery from overload or clipping and protection against overload, overheating, or short circuits without the use of current limiting. 100 W/ch into 8 ohms, 174 W/ch into 4 ohms; switchable to bridge operation for 350 W mono into 8 ohms. Slew rate 40V/ $\mu$ sec; FR 2-20,000 Hz; THD .008%; IMD 0.07%; signal-to-noise ratio 98 dB; 5.25 x 19 x 14 inches; 40 pounds. .... \$1,530

## SUPERPHON

### DM 220 100 W/ch Power Amplifier

100 W/ch power amplifier with rated power bandwidth 20-20,000 Hz ..... \$899

## SUMO

### NINE PLUS Power Amplifier

Class A power amplifier without any active bias circuits or thermal tracking networks. Features balanced-bridge configuration; push-pull quadrature feedback circuits; Discrete-Darlington output stage; direct-coupled circuitry from input to output. Power output 65 W/ch into 8 ohms from 20-20,000 Hz with <0.1% THD; FR 20-20,000 Hz  $\pm 0.25$  dB; 14 x 8.5 x 7 in; 35 lb. .... \$1,199

### Andromeda Power Amplifier

Class AB power amplifier with full-wave quadrant differential balanced-bridge topology using 4 independent push-pull feedback loops. Power output 200 W/ch continuous average into 8 ohms; THD 0.05%; IM 0.05%; slew rate 20 V/ $\mu$ sec; sens 1.8 V for rated output; dynamic headroom 1.5 dB; 19 x 8.75 x 7 in; 35 lb ..... \$1,099

### NINE Power Amplifier

Class A power amp with auto-biasing technology obviating thermal tracking, conventional bias, and protection circuitry. Power output 60 W/ch continuous average into 8 ohms; total harmonic distortion 0.25%; intermodulation distortion 0.05%; slew rate 15 V/ $\mu$ sec; sens 1.0 V for rated output; 19 x 8.75 x 7 in; 35 lb ..... \$799

### Polaris Power Amplifier

Class AB power amp that does not invert phase. Power output 100 W/ch continuous average into 8 ohms; THD 0.05%; IM 0.05%; sens 1.27 V for rated output; dynamic headroom 1.5 dB; 25 lb. With custom front panel and handles ..... \$699

## TANDBERG

### TPA 3016A 220-W/ch Power Amplifier

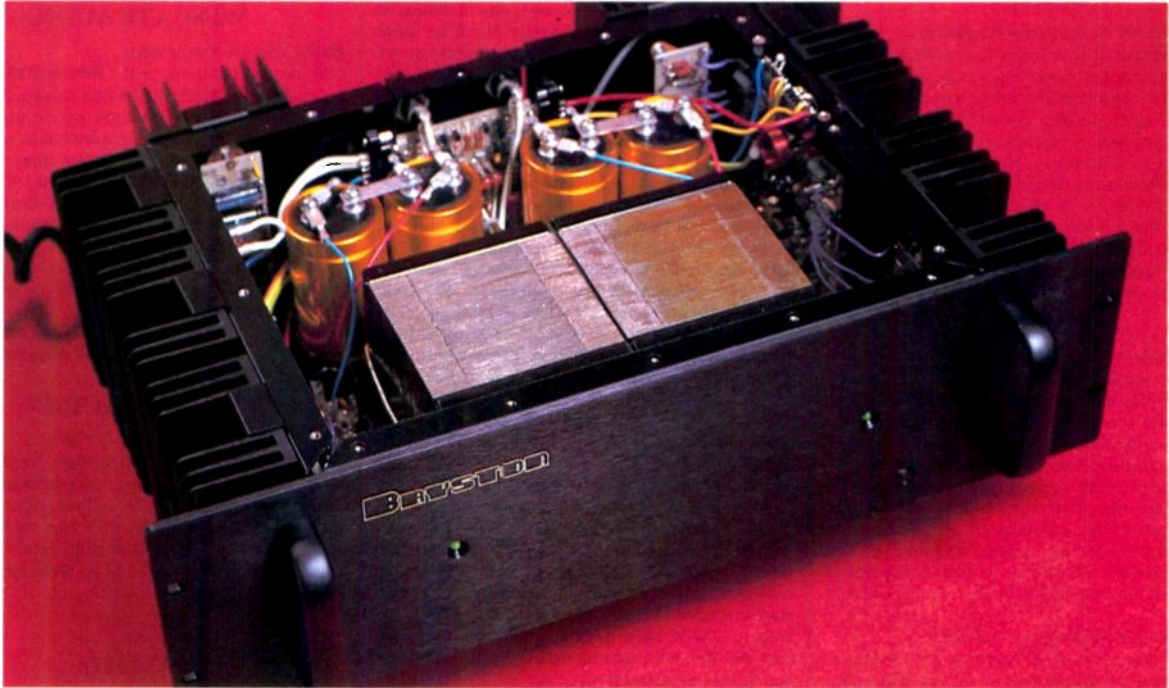
Stereo power amp with high-current (100 amp/ch) output design. Features separate power supply and toroidal transformer for each ch; zero feedback with 16 power MOSFET's in the output stage; 120,000-microfarad storage capacity; stable to 1 ohm; electronically controlled auto fan. 220 W/ch. 17.13 x 8.7 x 13.75 in; 62 lb. .... \$4,000

### TPA-3026A 150-W/ch Power Amplifier

Stereo power amp with high-current (45 amp/ch) output design. Features selected all-metal film resist



# BRYSTON



Bryston 4B Power Amplifier

## Bryston's Critical Acclaim

- *"I have heard quite a few preamplifiers costing 3 times as much as this Bryston .5B, and not only would few of them sound better or be more acoustically accurate, but many would suffer by comparison."* **Audio Ideas Guide**
- *"Overall tonal balance of the Bryston .5B preamplifier was beyond reproach, and I was particularly pleased with the clean, smooth reproduction of high frequencies."* **Audio Magazine**
- *"At the incredibly competitive price of the Bryston .5B preamplifier, we can only strongly recommend its purchase!"* **Son-Hi-Fi**
- *"This Bryston .5B is a high-end product in every sense of the word, even in its simplicity, and it deserves to be known as the bargain of the decade in state-of-the-art preamplifiers."* **Audio Ideas Guide**
- *"Speed, huge transient attack, and powerful bass response were our first subjective impressions. This Bryston 4B has dynamic range to burn."* **Audio Magazine**
- *"The new 3B is neutral and self-effacing, with little character."* **Hi-Fi Sound Magazine**
- *"The Bryston TF-1 is superb, in fact the very best transformer we can recall hearing."* **Hi-Fi Sound Magazine**
- *"The Bryston TF-1 is the best MC transformer I have yet heard, and is so well shielded that its signal-to-noise figure matches any other step-up device on the market, and probably exceeds most."* **Audio Ideas Guide**
- *"I would say that the LP playback qualities of the 12B with either moving coil or moving magnet cartridges are state of the art."* **Audio Ideas Guide**

In Canada:

**BRYSTON** MARKETING LTD.

57 Westmore Dr., Rexdale, Ontario, Canada M9V 3Y6  
(416) 746-0300

In the United States:

**BRYSTON** VERMONT

RFD #4, Berlin, Montpelier, Vermont 05602  
(802) 223-6159

# POWER AMPLIFIERS

tors and polypropylene capacitors; zero negative feedback and discrete components. 150 W/ch with no more than 0.02% THD into 8 ohms; S/N 100 dB; 17.13 x 5.25 x 13.75 in; 24 lb ..... \$2,500

## TECHNICS

### SE-A3MK2 300-W/ch Power Amplifier

Features computer-drive linear-feedback Class-A circuitry; concentrated power block; extra-large transformers and capacitors for stable power supply; 4-stage Darlington output circuitry; auto-load imp detector; computer-protection circuitry; large, fast peak-power meters; extra 2-Hz low-cut input terminals; main/remote/main and remote/off pushbutton speaker selectors; thick aluminum cabinet. Output power 300 W/ch into 8 ohms; FR DC-200,000 Hz  $\pm$  3 dB; input sens/imp 55 mV/4-16 ohms main or remote, 8-16 ohms main and remote; damping factor 200 8 ohms, 100 4 ohms; 16.94 x 8.19 x 19.97 in; 86 lb ..... \$2,400

### SE-A100 170-W/ch Power Amplifier

Features 1 voltage and 1 current amplifier per ch (voltage amps isolated from load by Class AA bridge circuit which drives current amp to avoid influence of complex, fluctuating speakerimps on voltage/current phase relationship, preventing counter electromotive force); massive power supply; 3 transformers (L-ch current amp, R-ch current amp, L/R voltage amps) using LC-DFC windings; 91,200- $\mu$ farad filtering; magnetic isolation; vibration damping. 170 W/ch into 8 ohms, 240 W into 4; dynamic headroom 0.7 dB. 17 x 8.25 x 18.75 in; 70 lb ..... \$1,920

### SE-A5MK2 150 W/ch Power Amplifier

DC power amp with linear feedback and computer drive to neutralize transient crossover distortion. Features parallel 3-stage Darlington output; power-linear circuit to compensate for speaker imp variation; power-output meters. 150 W/ch into 8 ohms; FR DC-150,000 Hz  $\pm$  0/-3 dB; IMD 0.002% 8 ohms; LF damping factor 100; 16.94 x 7 x 16.36; 40.6 lb \$1,035

## THRESHOLD

### SA/12 Class A Power Amplifier

Similar to SA/1 except 300 W pure class A output, no meter, 600 ohm balanced input capability, ultra-precision bias tracking circuitry with optical isolation, independent rail power supply including dual transformers. DC coupled with response of DC - 100,000 Hz. Slew rate 100 V/msec; 200 pk ampere capability; 19 x 9.5 x 25 in; 130 lb ..... \$6,000

### S/1600 Class A/AB Stasis Power Amplifier

Similar to S/500 except 800 W/ch; 600 ohm balanced input capability; ultra-precision bias tracking circuitry with optical isolation; independent rail power supply including dual transformers; DC coupled with response of DC - 100,000 Hz; slew rate 100 V/msec; 200 pk ampere capability; 19 x 9.5 x 25 in; 130 lb ..... \$6,000

### SA/1 Class A Stasis Power Amplifier

Single-ch, noninverting complementary-symmetry power amp with N-ch JFETs in front-end signal path and proprietary Stasis output stage. This is a binary topology in which a pure Class A voltage amp connected directly to the loudspeaker load determines signal integrity while operating in conjunction with a high-amperage current mirror also operated in pure Class A and connected directly to the load. No global feedback is used. Output stage bias accuracy is maintained through Threshold's proprietary optoisolated optical bias technology. Front-end gain stages biased for Class-A operation at all signal levels and are subject to primary and secondary levels of cascode shielding. Output stage employs 40 ultra-wide-bandwidth power transistors each rated at 200 V, 20 amperes. No fusing is imposed between output and load. Input and output connectors have gold-plated contact surfaces. Circuit boards are military

grade glass-epoxy and all internal connections are hand soldered. Operation is allowed into any load as permitted by power-supply fuses and thermal-protection circuitry. Large illuminated front-panel peak power meter covers -30 to +3 dB. Power supply 1,000 W toroidal transformer, 120,000  $\mu$ F capacitance. Rated power 160 W rms into 8 ohms of resistive or reactive imp 20-20,000 Hz at no more than 0.05% THD; idling bias 320 W; bandwidth at -3 dB points, 7 Hz and 100,000 Hz; slew rate 50V/ $\mu$ sec; IMD 0.05%; input imp 75,000 ohms; output imp 0.03 ohms; output current capability 40 amperes continuous, 150 amperes peak; 19 x 9.5 x 17.5 in; 79 lb \$2,750

SA/2. Similar to SA/1 except no output power meter. 100 continuous W/ch from 20-20,000 Hz with no more than 0.05% THD into 8 ohms; idling bias 240 watts; FR 7-100,000 Hz at -3 dB points; S/N -100 dB unweighted, referenced to rated output; slew rate 50 V/ $\mu$ sec; IMD 0.1%; 30 continuous, 100 peak amperes output capability. Output stage employs 28 ultra-wide bandwidth, 200 V, 20 ampere, 250 W rated devices. Power supply uses 700 W continuous rating toroidal transformer, 60,000  $\mu$ F capacitance. 19 x 9.5 x 13.12 in; 56 lb ..... \$2,750

SA/3 Class A Stasis Power Amp. Similar to SA/2 except dual ch, lower power configuration. 50 W/ch rms both channels driven from 20-20,000 Hz with no more than 0.05% THD into 8 ohms; idling bias 240 watts; frequency bandwidth 7 Hz and 100,000 Hz at -3 dB points; S/N -100 dB unwt'd referenced to rated output; slew rate 50 V/ $\mu$ s; IMD 0.1%; 16 continuous, 80 peak amperes capability/ch. Output stage employs 14 ultra-wide bandwidth, 200-V, 20-ampere, 250-W rated devices per ch. Power supply uses 700-W continuous rating toroidal transformer, and 60,000 microfarads capacitance. 19 x 9.5 x 13 in; 56 lb ..... \$2,750

### S/500 Class A/AB Stasis Power Amplifier

Dual-ch, noninverting complementary-symmetry power amp employing the same signal-path and optical topology as SA-series amps except current bootstrap section of Stasis output stage is operated under high bias as Class A/AB. No global feedback employed. Front-end gain stages and voltage amp section of Stasis output stage are biased for Class A operation at all signal levels. Front-end signal transistors are subject to primary and secondary levels of cascode shielding. Modular construction. 250 W/ch rms from 20-20,000 Hz with no more than 0.1% THD into 8 ohms; idling bias 240 watts; frequency bandwidth at -3 dB points 7 Hz and 100,000 Hz; S/N -100 dB unwt'd referenced to rated output; slew rate 50 V/ $\mu$ s; IMD 0.1%; 12 continuous, 100 peak amperes capability/ch. Output stage employs 20 ultra-wide bandwidth, 200-V, 20-ampere, 250-W rated devices per ch. Power supply uses 1,000-W continuous rating toroidal transformer, and 120,000 microfarads of capacitance. Output imp 0.1 ohm 20-20,000 Hz. 19 x 9.5 x 17.5 in; 78.5 lb ..... \$3,700

S/300 Class A/AB Stasis Power Amp. As model S/500 except rated power 150 W/ch rms into 8 ohms, both chs driven 20-20,000 Hz at 0.1% THD; output transistor complement fourteen 200-V, 20-ampere devices/ch; power supply 700-W toroidal transformer, 60,000  $\mu$ F capacitance; output current capability 10 amperes/ch continuous, 80 amperes/ch peak; 19 x 9.5 x 13 in; 56 lb ..... \$2,750

S/200 Class A/AB Stasis Power Amp. As model S/300 above except rated power 100 W/ch rms into 8 ohms, both chs driven 20-20,000 Hz at 0.1% THD; idling bias 160 watts output transistor complement eight 200-V, 20-ampere devices/ch; power supply 400-W toroidal transformer, 30,000  $\mu$ F capacitance; max output current 8 amperes/ch continuous, 50 amperes/ch peak; 19 x 9.5 x 17.5 in; 44 lb .. \$1,800

## VECTOR RESEARCH

### VA-1450 Power Amplifier

Features high-current, 8-output transistors, dual

transformers; bridgeable to 200 W mono; phase inverted line-out; 100 continuous average W/ch 20-20,000 Hz <0.08% THD into 4 ohms; dynamic headroom 2.5 dB; IHF IMD 0.08%; FR 10-40,000 Hz  $\pm$  1 dB. 17 x 3 x 12; 21 lb ..... \$349

## WINGATE AUDIO

### 2000A Class A Power Amp

Class A power amplifier with 100% MOSFET. Features no negative feedback; dual-mono construction; MOSFET regulated power; toroidal power transformer; ultra-wide bandwidth. 100 continuous average W/ch from 20-20,000 Hz with no more than 0.5% total harmonic distortion into 8 ohms; FR 0.1-250,000 Hz  $\pm$  0, -3 dB; S/N >100 dB; dynamic headroom 1.6 dB; slew rate 100 V/ $\mu$ sec; intermodulation distortion 0.5%; gain 30 dB; input imp 25,000 ohms; 19 x 8.12 x 22 in; 67 lbs ..... \$3,900

4000M. 250-W mono block, same performance as 2000A except power output 250 W, damping factor >60; current drive capability 128 amperes peak to peak, continuous current drive 46 amperes \$4,995/pr

## WRIGHT AUDIO

### Stereo 70 Power Amplifier

35 W/ch vacuum-tube stereo power amplifier. Features all hand-wired circuitry; solid red oak base; sens 1.3 V rms input for 35 W output; input imp 470 kilohms; output imp 4, 8, 16 ohms each channel; binding post terminals; damping factor 15; power consumption 190 W, 110-120 V, 50/60 cycles. 33 lb. Already assembled ..... \$850

Kit ..... \$750

## YAMAHA

### MX-10000 Power Amplifier

Limited Centennial Edition power amplifier. Features dual-amp class-A operation; hyperbolic converting non-switching circuitry; power MOSFET's; high-precision analog dB scale peak level meter. 250 W/ch minimum root mean square into 8 ohms from 20-20,000 Hz with less than 0.0005% total harmonic distortion. Titanium grey with high luster walnut end panels; 120 lb ..... \$7,000

### MX-1000U Power Amplifier

Power amplifier with hyperbolic conversion amplification circuit. 260 W/ch into 8 ohms from 20-20,000 Hz with less than 0.003% THD. Features A+B+C speaker switching; 26-segment LED power level meters; on/off switch; independent L/R level control; 4-digit numerical power output display; LED meter and digital peak hold display; meter display load selectors; compatible with banana plugs. 600,000  $\mu$ F x 2 power supply capacity ..... \$1,199

### MX-800U Power Amplifier

Power amplifier with hyperbolic conversion amplification circuit. 170 W/ch into 8 ohms from 20-20,000 Hz with less than 0.003% THD. Features A+B+C speaker switching; 26-segment LED power level meters; on/off switch; independent L/R level control; meter display load selectors; compatible with banana plugs. 600,000  $\mu$ F x 2 power supply capacity .. \$849

### MX-600U Power Amplifier

Power amplifier with hyperbolic conversion amplification circuit. 135 W/ch into 8 ohms from 20-20,000 Hz with less than 0.003% THD. Features A+B speaker switching; 12-segment LED power level meters; on/off switch; independent L/R level control; compatible with banana plugs. 600,000  $\mu$ F x 2 power supply capacity ..... \$529

### M-35B Power Amplifier

Features 2 or 4 channel output; independent level control; high dynamic power; low impedance drive capability. 40 x 2 or 20 x 4 W/ch min rms into 8 ohms from 20-20,000 Hz with less than 0.003% THD; 13 lb ..... \$249



# When you've arrived. Proton.



Proton's AV27 audio-video system.



300 Series Remote-Controlled Components with Dynamic Power on Demand™ (top to bottom) AM-300 Stereo Amplifier, AT-300 Stereo Tuner, AD-300 Cassette Deck, 830R CD Player

CIRCLE NO. 10 ON READER SERVICE CARD

Your audio-video system should be a reflection of your lifestyle. That's why you'll want the ultimate in picture, sound and design.

Introducing Proton's new AV27 audio-video system.

At the heart of the system is our superb, remote-controlled 300 Series audio components with exclusive Dynamic Power on Demand™ (DPD™). Since its introduction, DPD has received the highest acclaim. It does what no other technological innovation has for CD, other digital recordings, or hi-fi video listening pleasure. DPD boosts the amp's output up to four times its rated power, to let you hear even the highest musical peaks clearly, without distortion.

When you put the 300 Series together with our new matching speakers, you'll have a combination that sounds as extraordinary as it

looks. And, it's the perfect complement to Proton's stunning new 27" flat screen stereo monitor/receiver.

The Proton AV27 audio-video system. Once you own it, you'll know you've arrived.

**The ultimate audio/video guide is yours free for the asking.**

Proton's Ultimate System Guide for Audio/Videophiles tells you everything about the innovative technology and design that go into creating the renowned Proton line.

For your copy, which includes a list of the Proton retailers near you, call (800) 772-0172. In California, (800) 428-1006.

## PROTON

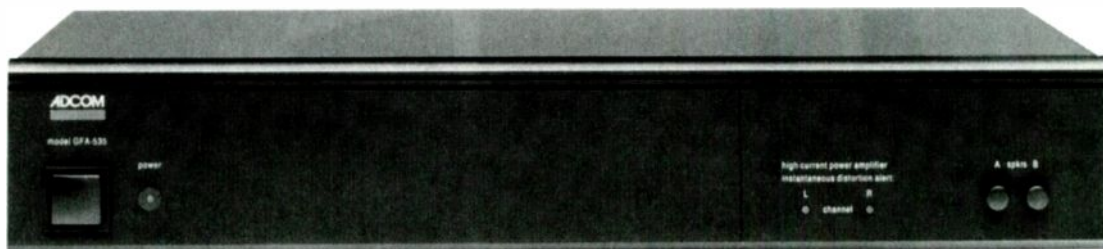
CLEARLY THE BEST  
737 W. Artesia Blvd., Compton, CA 90220

# "In its price category, the Adcom GFA-535 is not only an excellent choice; it's the only choice."

Sam Tellig, The Audio Cheapskate

**stereophile**

Vol. 10 No. November 1987



## Adcom GFA-535 power amplifier.

### The complete report:

Sometimes products are too cheap for their own good, and people don't take them seriously: the Superphon Revelation Basic Dual Mono preamp, Rega RB300 arm, AR ES-1 turntable, Shure V15-V MR cartridge, and the B&K ST-140 power amp. They can't be any good because they cost so little, right?

Wrong, of course.

Adcom appears to be having the same problem with their \$299.95 GFA-535 amp. Credibility.

Now if this amplifier were imported from England and sold for \$599.95, then maybe it would be taken seriously. And highly praised, no doubt.

For the baby Adcom is one of the finest solid-state amps I have heard. No, not the best; I'm not sure what *is* the best. But it's an amplifier that is so good for so little money as to be practically a gift.

Actually, when Rob Ain from Adcom called, I was about as enthusiastic about the GFA-535 as you were before you finish reading this piece. But Rob insisted, "You've gotta hear this amp."

He brought it over the next day, along with the GFP-555 preamp (\$499.95), and we put both pieces into the rest of the system: a Shure Ultra 500 in a Rega RB300 arm on an AR ES-1 table, with Quad ESL-63 speakers on Arcici stands. Then we chatted for a half hour or so while the electronics warmed up.

And then, simultaneously, the two of us decided to shut up and listen.

"I've never heard the Quad ESL-63 sound better," Rob said. Of course, he was hardly an impartial observer, but the sound was extraordinarily clean, detailed, and musical. If it wasn't the best sound I have ever heard from Quads, it was pretty close.

This humble \$300 amplifier was driving a pair of very revealing \$3000 speakers and giving a very good account of itself. (We listened first to some Goran Sollscher classical guitar.)

"So how come this product isn't flying off the dealers' shelves?" I asked Rob.

"I don't know. Everyone wants the GFA-555 with 200 watts per channel. Including people who don't need it."

"Does the GFA-555 sound any better?" I asked.

"It's our aim to have all our amps sound pretty much the same. You pay more money, you get more power."

Rob pointed out that while the GFA-535 is rated at 60Wpc, it puts out more like 80. And while I did not do any measurements, my experience with other amps tells me Rob's right. I suppose Adcom doesn't want to steal sales from its GFA-545, rated at 100Wpc and selling for \$200 more.

After a couple of hours, Rob left, grinning from ear to ear, and I later sat down to listen alone. True, when I tried certain Telarcs and pushed hard I could get the amplifier to clip—two LEDs quickly light up (very useful). But the Quads were running out of the ability to use the power anyway. My first impressions



were confirmed: the GFA-535 is one of the best amplifiers around for driving Quads. Spondor SP-1s, too.

Suddenly, it hit me what this meant. Conventional wisdom had been dealt a severe blow. You know, the old saw that you should never power a good pair of speakers with a

**“The GFA-535 reminds me of... amplifiers that sell... for about three and five times the price.”**

cheap amplifier. Here was a cheap amp—one of the cheapest on the market—that sounded good with Quads, Spondors, later Vandersteens. Probably Thiels, too—at least the CS1. What it means is you can stretch your speaker budget a bit and get the speakers you really want, then economize by buying an Adcom GFA-535 for \$299.95. True, you may be a little power shy, but probably not much. And to say the least, the GFA-535 would make a decent interim amp.

What does the GFA-535 sound like? (You thought I'd forget that part, right?) Well, this is one of the most neutral amps I've heard.

**“... the baby Adcom is one of the finest solid-state amps I have heard... so good for so little money as to be practically a gift.”**

While it doesn't sound particularly tubelike, it avoids the typical transistor nasties through the midrange and into the treble. I wouldn't call it sweet—there's no euphonic coloring—but it isn't cold or sterile. What it is, is smooth. And detailed. Far more detailed than I would ever imagine a \$300 amplifier could be. The GFA-535 reminds me of the Eagle 2A and PS Audio 200C, amplifiers that sell, respectively, for about three and five times the price. Of course, they have more power. And they *are* more detailed. The point is, the Adcom comes close. Very close.

The bass, like everything else, is neutral, certainly not fat and overdone. But it's here where

you notice that this amp is not a powerhouse. You just don't get the solidity and extension you get with a very powerful (and expensive) solid-state amp. Nor do you get the breadth and depth of soundstage that you often find with a very powerful amp. The Adcom GFA-535 sounds a wee bit small, which it is.

My only criticism, and it's more of a quibble, is that the speaker connectors are non-standard and unique (so far as I know). You insert bared speaker wire into a hole and twist the connector tight a quarter turn. Most speaker cables will fit, but some will not. Certainly MIT won't. Neither will the best Kimber, the kind with eight clumps of strands. The less costly four-clump Kimber will, and proved an excellent choice. My sample amp was quiet—

**“This amplifier is so good and so cheap that I think any CD owner who buys an integrated amp is nuts.”**

no hum—and ran cool. There are selectors for two sets of speakers. And the 535 looks nice.

And talk about economy: If you're not into LPs anymore, you could buy a Mod Squad, dbx, or Old Colony line-level switching box—or possibly a B&K Pro 5 preamp, with its switchable line amp section (only \$350), or the Adcom SLC-505 passive preamp (\$150)—and run it with a CD player. In fact, if you are into CD only (no tape, no tuner, no phono), you could buy a CD player with a variable volume output and run it directly into the Adcom. This amplifier is so good and so cheap that I think any CD owner who buys an integrated amp is nuts.

In its price category, the Adcom GFA-535 is not only an excellent choice; it's the only choice. The real question is whether you should buy one even if \$299.95 is much *less* than you planned to spend for an amp—*ie*, whether you should put the money into a better CD player or pair of speakers instead.

**ADCOM**<sup>®</sup>  
fine stereo components

11 Elkins Road, East Brunswick, NJ 08816  
U.S.A. (201) 390-1130 Distributed in Canada by:  
PRO ACOUSTICS INC. Pointe Claire, Quebec H9R 4X5

# PREAMPLIFIERS



## ACCUPHASE BY MADRIGAL

### C2801 Class A Preamplifier

All-stage Class A push-pull arrangement and DC servo-controlled direct-coupled unit amps and signal paths. Built-in head amp for MC cartridges; separate power transformers for each ch (+26 dB or +32 dB); MC input-imp selector switch; separate R and L input-level control; 2-stage selectable loudness compensation. Phono input 2 mV, phono (head amp on); 0.1 mV/0.5mV selectable; line/tuner input 126 mV; rated output 2 V; line/tuner S/N 110 dB; phono S/N 85 dB; phono S/N (head amp on) 72 dB . . . . . \$7,850

### C270 Class A Preamplifier

Cascade push-pull circuits on all stages; separately regulated power supply for each gain stage in each ch; fully balanced input and output for CD player; 10 inputs; selectable loudness compensation. Inputs for MM phono; tape; tape 2; CD player; CD player/balanced; tuner; 4 line-level sources. S/N 92 dB; 34.4 lb . . . . . \$5,750

### C200V Preamplifier

Preamp and control center with 11 inputs; separate tone controls for each ch with selectable turnover frequencies; some inputs and outputs accessible from front panel. Inputs for MM phono, MC phono, tape, tape 2, tape 3; aux, phono 2, phono 3, CD player, tuner; line 2; line 3. Max output 8.0 V; MM phono sens 0.5 mV for 0.5-V output at 1,000 Hz; MM phono input overload level 300 mV, 30 lb . . . . . \$4,250

## ACOUSTIC RESEARCH

### AR C-06 8-Input Preamplifier

Features infrared remote control of inputs and volume via T-04 tuner cable link; switchable MM input capacitance; gold-plated phono inputs; separate headphone amp. Inputs for MM phono; MC phono; tape; tape 2; CD player; tuner; video. FR 13-50,000 Hz  $\pm 3$  dB; S/N 90 dB; THD 0.005%; phono sens/imp 0.8 mV/47 kilohms (MC), 60  $\mu$ V/180 kilohms (MM); phono overload level 180 mV (MM), 15 mV (MC); CD input sens/imp 50 mV/15 kilohms; tuner/tape input sensitivity/impedance 50 mV/33 kilohms. 3.31 x 17 x 13 inches. . . . . \$399

## ADCOM

### GFP-555 Preamplifier

Features two-sided copper-plated circuit board for low noise and hum; switchable phono-input capacitance; switchable gain on phono input; tape dubbing; separate headphone amp; 2 sets of outputs (AC coupled, DC coupled); signal-processor loop; 5 pairs of high-level inputs. Can record from one input while listening to another input. Inputs for MM phono; MC phono; tape; tape 2; CD player; tuner; video. FR DC-400,000 Hz  $\pm 0.5$  dB; THD 0.005%; MM phono sens 0.4 mV for 0.5-V output at 1,000 Hz; sens for line-level inputs 40 mV. 17 x 3.25 x 12.75 in . . . . . \$500  
GFP-555W. As above with white front panel . . . \$550  
GFP-555S. With silver front panel . . . . . \$550

### GTP-500 Preamplifier/Tuner

Preamplifier with built-in tuner can be used with Adcom or other power amps. Wireless remote control included. Remote sensors available for remote control from different rooms. Preamp section

features inputs for MM phono; tape; tape 2; CD player; tuner. Tuner section features quartz-referenced digitally synthesized tuning; auto up and down scan; 8 AM/FM presets; 5-LED signal-strength display; high-blend circuit; 2 sets of outputs (AC coupled, DC coupled). S/N phono A-wtd 85 dB; IMD preamp 0.0015%; sens tuner 36.5 dBf stereo; THD tuner 0.09% stereo at 1,000 Hz; S/N tuner 75 dB stereo; sep tuner 52 dB at 1,000 Hz. 17 x 3.25 x 12.75 in . . . . . \$600  
GTP-500W. As above with white front panel . . \$650  
GTP-500S. With silver front panel . . . . . \$650

### Accessories

RM-3. Optional rack-mount adaptors for GFP-555 and GTP-500 . . . . . \$20/pr  
RM-3W. RM-3 in white . . . . . \$25/pr  
RM-3S. RM-3 in silver . . . . . \$25/pr  
XR-500. Optional remote sensor for GTP-500 . \$90

## AUDIO DESIGN ASSOCIATES

### ADP-8 Preamplifier

Preamplifier with 8-input capability. Features 5 stereo source inputs; 3 stereo tape inputs; 1 stereo signal processor loop input; input imp <47k ohms; max input level  $\pm 8$  volts; 3 main outputs; 3 tape outputs; 1 processor loop output; output imp >100 ohms; max output level  $\pm 12$  volts; FR 20-20,000 Hz  $\pm 0.25$  dB; THD 0.05%; S/N -85 dB; volume, balance, bass, mid, treble and source selection controls; 1 switched outlet. 3.5 x 19 x 13.5 in; 9 lb . . . . . \$995

## AUDIO DYNAMICS

### C200 Preamplifier

Audio/video preamplifier with built-in Dolby and matrix surround-sound processors. Features simulated stereo; bass, midrange, and treble tone controls; tone-defeat switch; loudness switch; muting switch; external processor loop; dubbing; separate rec and listening selectors for recording one source while listening to another; inputs for MM/MC phono; tuner; AUX; CD player; video monitor; 3 audio or video tape decks; FR 10-50,000 Hz +0, -3 dB (line level), 20-20,000 Hz  $\pm 0.25$  dB (phono). 4.0 x 11.75 x 12.62 in . . . . . \$599

## AUDIO RESEARCH

### SP-11MKII Stereo Hybrid Preamp

High-Definition preamp with both vacuum tubes and field effect transistors. Inputs for MM phono/MC phono; tape; tape 2; aux; CD player; tuner; video. Features auto muting for warm-up, brown-out, powerline interruption; manual muting; bypass switch for audiophile-quality program material; absolute phase switch; level control; toroidal power transformer. FR 0.1->200,000 Hz  $\pm 3$  dB; S/N 110 dB; THD <0.005%; MM phono sens 0.088 mV for 0.5 V output at 1,000 Hz; MM phono input overload level 350 mV at 1,000 Hz; sens for line-level inputs 18 mV. 46 lb; 5.25 x 19 x 10.25-in . . . . . \$4,995

### SP9 Hybrid Stereo Preamp

On-board power supply; auto mute circuit for warm-up, voltage drop; switchable muting; 2 tape inputs, 2 tape outputs; 2-position tape-monitor switching; gold-plated input/output jacks connect ground before hot, disconnect hot before ground; shielded toroidal power transformer; internally adjustable phono-

section imp; 2 6DJ8 vacuum tubes (1 in phono stage, 1 in line stage); compatible with many MC cartridges; black front panel extra. FR (high level,  $\pm 0.5$  dB) 5-50,000 Hz; magnetic phono,  $\pm 0.3$  dB of RIAA, 30-40,000 Hz; max output 2 V rms; distortion <0.01% at 2 V rms out; input imp 50k ohms (all high level);



phono 47k ohms (changeable). 5.25 x 19 x 10.25-in; 13 lb net, 22 lb shipping weight . . . . . \$1,695

### MCP33 Vacuum-Tube Preamp

Preamp for low-output MC cartridges. Features front-panel gain and imp selectors. FR 20-50,000 Hz  $\pm 1$  dB; max output 10 V; THD 0.005% at 100 mV; IMD 0.01% at 100 mV; 5.25 x 19 x 12.38-in; 14 lb . . . . . \$1,395

### SP-7 Solid-State Stereo Preamp

With Analog Module technology. Inputs for MM phono; tape; aux; tuner; aux 2. Features manual and auto muting; close-tolerance segmented gain control; front-panel receptacle switch that operates 3 relay-controlled outlets with 1,600-W capacity; low-surge turn-on circuitry; isolated ground construction that floats all inputs and outputs; rejection filters for low RFI, TVI, CB interference. FR 1-50,000 Hz  $\pm 0.25$  dB high-level, 10-40,000 Hz phono; THD and IMD <0.002% at 2 V rms; MM sens 0.5 mV for 0.5 V output at 1,000 Hz; gain phono/high-level to main outputs 60/26 dB; input/output imp 50k/250 ohms; phono overload 500 mV at 1 kHz; output level 2 V rms; noise high-level/phono 250/2  $\mu$ V; 3.5 x 19 x 8.5; 20 lb shipping weight. . . . . \$995

## AUDIO BY VAN ALSTINE

### Transcendence Fet-Valve Preamplifier

Class-A compound hybrid construction preamp. Features toroidal power transformer; regulated power supply; power bandwidth >800,000 Hz; RIAA phono inputs; 2 sets of tape inputs with tape-to-tape monitoring; 3 sets of line-level inputs for digital and analog sources; EPL inputs and outputs; precision volume and balance controls; separate bass and treble tone controls for each channel; two pairs of audio outputs; amp-driven headphone jack; 200 W rated speaker selector switch. 13.5 x 12.5 x 4.5 in; 11 lb . . . . . \$1,195

### Fet Three Plus Preamplifier

Features dual phono, dual tape and two additional high-level inputs; tape-to-tape monitoring; precision volume and balance controls; bass and treble controls; two audio outputs; headphone jack; EPL loop; audio circuits use fast FET op-amps with hybrid current amps; THD <0.003%. Available at lower price in simpler chassis. 17 x 9.3 in; 13 lb. . . . . \$795

### Super Pas Three Preamplifier

Vacuum-tube preamp. Features precision volume



# PREAMPLIFIERS

and balance controls; RIAA equalization; phono and 3 or 5 line-level inputs; tape monitoring capability. 13.5 x 9 x 4.5 in; 9 lb. Factory wired ..... \$595  
Kit ..... \$200

## Fet Three Preamplifier

Features linear fast FLT op-amp circuits; tight-tracking volume and balance controls; balanced tone controls; matched phono circuits; tuner, tape, and AUX inputs; 2 switched AC outlets. 13.5 x 8.5 x 3 in; 7 lb. .... \$340

## BEDINI AMPLIFIERS

### BC-800 Class A Preamplifier

Class A flat preamp with inputs for 2 tapes, CD, DAT, tuner, phono; volume and balance controls; FR 1-110,000 Hz +0, -3 dB; THD <.1%; IMD <.03%; RIAA phono deviation 10-30,000 Hz  $\pm$ .25 dB; S/N phono to rec out -100 dB/line to pre out -110 dB; 5 x 19 x 13.88-in; 12 lb ..... \$1,495

### BC-866 Class A Preamplifier

Class A flat preamp with inputs for phono, tuner, tape, CD, AUX; balance and volume controls; FR 1-110,000 Hz +0, -3 dB; THD <.15%; IMD <.05%; RIAA phono deviation 20-25,000 Hz  $\pm$ .25 dB; S/N phono to rec out -90 dB/line to pre out -100 dB; 3 x 19 x 8.5-in; 9 lb ..... \$695

## BELLES RESEARCH

### BELLES 50 Stereo Preamplifier

Solid-state preamp with user flexibility of functions. Features discrete MOSFET bipolar hybrid circuitry; class A direct coupled outputs; van den Hul wiring;



unregulated high energy power supply; 30 VA toroidal transformer; defeatable subsonic filter; two way tape dubbing flexibility; inputs for phono low level and high level; tuner, CD player, video AUX, tape 1, tape 2; FR 20-20,000 Hz  $\pm$  1 dB; S/N 86 dB; THD .05%; 11 lb; 2 x 17 x 10-in ..... \$895

## THE DAVID BERNING COMPANY

### TF-12 Preamplifier

Dual-mono tube preamp with differential triode design. Features digitally controlled switching matrix (1-dB steps over 80-dB range) for volume and balance functions to avoid colorations; LED dot-matrix displays relative levels of both channels in dBs; high-frequency resonant power supply; wireless remote control of volume, balance, and mute; high-gain line section (32 dB). Inputs for MM phono; MC phono; tape; AUX; CD player; tuner; video. FR 5-100,000 Hz  $\pm$  3 dB; MM phono sens 0.38 mV for 0.5-V output at 1,000 Hz; sens for line-level inputs 32 mV. .... \$2,950

## B&K COMPONENTS

### Sonata Series MC-101 Preamplifier

MM/MC switchable preamp. FR 1-150,000 Hz -0, -5 dB; THD 0.02%; 2 tape loops; 2 tone controls; MM sens .8 mV; MM S/N 80 dB; MC S/N 80 dB; Tiffany connectors; optional balanced output. .... \$898

### Pro-10MC Preamplifier

Preamp with built-in MC stage. Inputs for MM phono, MC phono, tape, AUX, CD player, tuner. FR 1-100,000 Hz  $\pm$  3 dB; max output 6 V; THD 0.01%; IMD 0.01% IHF; MM phono sens 0.5 mV for 0.5-V output at 1,000 Hz; MM phono input overload level 100 mV, sens for line-level inputs 0.450 mV. 3.5 x 19 x 10-in; 12 lb \$648

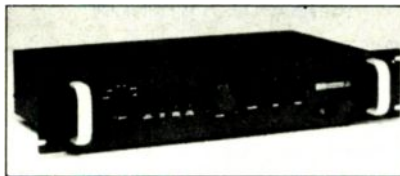
### Pro-10 Preamplifier

Preamp with separate power supply and gold-plated connectors for positive contact and reliability. Inputs

for MM phono, tape, AUX, CD player, video, tuner. FR 1-100,000 Hz  $\pm$  3 dB; max output 6 V; THD 0.01%; IMD 0.01% IHF; MM phono sens 0.5 mV for 0.5-V output at 1,000 Hz; MM phono input overload level 100 mV, sens for line-level inputs 0.450 mV. 3.5 x 19 x 10-in. .... \$598

### Pro-5 Preamplifier

Preamp features 5 high-level inputs; 1 phono stage with 57 dB gain; balance, volume, bass, treble controls; gold-plated RCA connectors; moving-coil

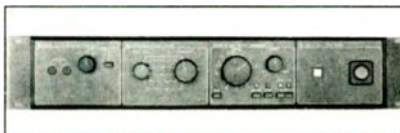


capacity. Inputs for MM phono, tape, AUX, CD player, tuner, video. FR 1-100,000 Hz  $\pm$  3 dB; S/N 100 dB; MM phono sens 0.7 mV for 0.5-V output at 1,000 Hz; MM phono input overload level 105 mV at 1,000 Hz; sens for line-level inputs 0.636 mV. 3.5 x 19 x 10-in; 12 lb ..... \$398

## BOULDER AMPLIFIERS

### Modular Preamp System

Each module has gold-plated connectors, uses common power supply and measures 4.2 x 3.5 x 14.25 in. MS10. Phono preamp module does RIAA EQ and gain; 2,990 amps/ch; gain adjust; inputs for high-level MC and MM; max gain 46 dB; optional input for low-level MC's has 20-dB gain; RCA inputs standard. 3-pin optional; unbalanced RCA outputs; solid-state balanced output for pro use. .... \$838  
MS11. As above with triple F switchable Bessel 3-



pole low-cut filter at 10, 20, or 30 Hz. .... \$986

### Options for MS11

3-Pin Connectors. For unbalanced feet to balanced input (in addition to RCA connections). .... \$44  
Solid-State Balanced Output. Inverting BA990's, 3-pin connectors ..... \$336  
Solid-State MC Input. Bridging, with 20-dB gain ..... \$253  
Transformer MC Input. With Jensen MC transformers ..... \$489  
MS21. Selector-switch module with inputs for phono, CD, tuner, tape 1 and 2, AUX; dubs between decks ..... \$449  
MS31. Output-controller module sets volume and balance, switches stereo/mono, normal/reverse image, and mute (-20 dB); unbalanced output; RCA type and 3-pin connectors. Optional balanced output. .... \$652  
MS32. Similar to MS31 except adds high-imp buffered inputs, Penny & Giles volume control, individual-ch polarity switches. Optional balanced input and/or output ..... \$1,191  
Solid-state balanced output adds inverting BA990's. .... \$292  
Transformer balanced output ..... \$489  
MS01. Power supply module for up to 4 of above modules; bidirectional tracking voltages; toroidal power transformers; oversize heatsinks; current limiting; LED indicates power or unregulated voltage. .... \$518  
CP02. Short power cable (1 needed for each module) ..... \$25  
CP06. Long power cable (1 needed for remoting phono preamp) ..... \$30  
MF01. Mainframe houses 1 of above modules \$155  
MF02. Mainframe houses 2 of above modules. Half rack size ..... \$163  
MF04. Mainframe houses 4 of above modules. Full

rack size with removable rack-mount ears. .... \$211  
MS00. Blank module panel for covering unused slots. .... \$55  
CA06. 6-ft pair interconnects for connecting phono preamp remotely ..... \$69  
CA01. 8" pair of gold-plated RCA interconnects for connecting modules in frame ..... \$49  
Price varies with options: complete system with MS10, MS21, MS31, MS01, MF04, CP02, and CA01 ..... \$2,841

## BRYSTON

### 12B Preamplifier

Control preamp can play 1 source while taping or remoting another. Features stereo/mono/mute switch; 14-V headroom. Inputs for MM phono, MC phono, tape, 2, CD player, tuner; video. S/N -84 dB; THD 0.005%; 1.75 x 19 x 11-in ..... \$1,595  
11B. Second MM input instead of MC input ..... \$1,175

### .5B Preamplifier

Basic preamp with inputs for MM phono, tape, CD player, tuner. FR 20-20,000 Hz  $\pm$  0.1 dB; max output 14 V; THD 0.005%; IMD 0.005% IHF; 1.75 x 19 x 9-in; 9 lb ..... \$650

## CAMBRIDGE AUDIO

### C75 Preamplifier

Inputs for MM/MC phono (switchable), tape, tape 2. Features dubbing capabilities; straight-line design; solid-wood end panels. FR flat within 0.1 db 20-80,000 Hz; THD 0.005% 20-20,000 Hz; max output 12 V; MM input 2.6 mV at 47 kilohms; MC input 0.3 mV at 47 kilohms; S/N MM 82 dB, line 96 dB. .... \$698

### C50 Preamplifier

Connections for 4 input sources plus tape. Features passive tone controls with tone bypass switch and two outputs, one being a passive direct output after the volume control and the other a normal output. MM or MC switchable phono inputs with discrete circuitry. Segmented passive RIAA EQ. THD 0.005%. Sold only as a combination with the A50 power amp. combination price ..... \$999

## CARVER

### 4000-t Sonic Holography Preamplifier

With Sonic Hologram Generator designed to recreate 3-dimensional sound field of recording site and locate instruments precisely in space. Features MC preamp; surround-sound decoder; Digital Time Lens; Auto Correlator NR; L and R bass and treble controls with turnover frequency switches, tone defeat; cartridge matching; 2-way tape dubbing, monitoring; external signal processor input; infrasonic filter. NR 20 dB (20-200 Hz), 10 dB (2,000-20,000 Hz); Sonic Hologram image resolution 5x horizontally, 20x vertically ..... \$1,220

### C-1 Sonic Holography Preamplifier

Features Sonic Hologram Generator; separate L and R bass and treble controls, tone defeat; MC phono input; 18 dB/octave infrasonic filter; tape/source monitor with 2-way tape-dubbing; provision for external processor. .... \$610

### C-2 MM/MC Preamplifier

Switchable input for MM or MC cartridges; infrasonic filter (18 dB/octave below 20 Hz); bass and treble controls; tone control bypass; 2 tape inputs; provision for 2-way dubbing; AUX input; external processor loop; mode switch; rear-panel jack for high-level gain (choice of 15 or 25 dB); anodized aluminum dark pewter front panel ..... \$450

## CELLO

### 1003-00 Encore Preamp

Features universal phono section; gain 36 dB, 46 dB, 60 dB; loading 49k, 10k/220pF, 1k/.02pF; balanced

# PREAMPLIFIERS

line input (optional); 8 single-ended line inputs; buffered tape outputs; balanced line out plus 2 single-ended line outputs; choke input power supply; phase switch; 2 tape monitors ..... \$5,000

## Audio Suite

Open-architecture mainframe accepts up to 10 slide-in vertical modules for phono, tape, CD, video, DAT, and tuner inputs; houses pro modules including mic preamp/mixers, tape head recording and mastering amplification, upcoming digital-to-analog converters, monitor amps for headphones or speakers. Can control multi-room and multi-media systems.

Mainframe chassis.....	\$1,575
P101 MC phono input module.....	\$3,150
P100 MM phono input module.....	\$1,785
P100 high-gain MM phono input module.....	\$1,785
P200 tape input module.....	\$1,050
P200 CD input module.....	\$1,050
P200 tuner input module.....	\$1,050
P200 aux input module.....	\$1,050
P200 video input module.....	\$1,050
B301 output module.....	\$1,050
B100 MM phono input module.....	\$1,050
B201 Camac line input module.....	\$735
B200 RCA line input module.....	\$630
P301 output module.....	\$3,000
P200 DAT input module.....	\$1,050

## Accessories

Blank bay assembly.....	\$63
Blank front plates.....	\$42
Blank rear plates.....	\$21

## Etude Control Unit

4 inputs for sources such as CD players, tuners, tape, and video; 59-position volume control..... \$1,000

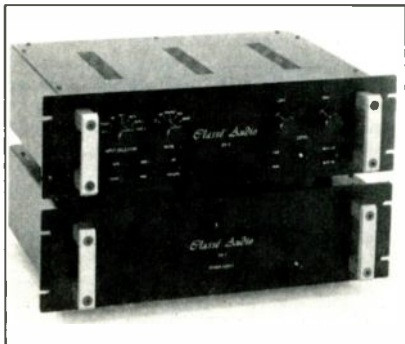
## Master Supply

120 V AC.....	\$2,250
---------------	---------

## CLASSE AUDIO

### DR-7 Preamplifier

Preamplifier features FR 20-20,000 Hz  $\pm$  0.2 dB; max output 8 V; THD 0.01%; balanced inputs/outputs; sens 50 mV; 2 tape & processor loops; MM & MCS/N



80 dB; MC input; dual chassis; 5-transformer power supply ..... \$4,895

### DR-5 Preamplifier

Preamplifier features FR 20-20,000 Hz  $\pm$  0.2 dB; max output 8 V; THD 0.01%; balanced inputs/outputs; sens 50 mV; 1 tape; polarity inverter optional; MM & MC S/N 80 dB; MC input; direct phono bypass; regular or balanced output stages ..... \$1,995

## CONVERGENT AUDIO TECHNOLOGY

### SL-1 Reference Preamplifier

Preamplifier with all-vacuum-tube design. Features 12 separate regulators, with 1 for each stage; adjustable loading; external power supply; switched metal film resistors for volume and balance controls. Inputs for MM phono; MC phono; tape; aux; CD player;

tuner; video. FR 0.1-1,000 Hz  $\pm$  3 dB; S/N 90 dB; sep 90 dB; THD 0.0005%; MM phono sens 0.125 mV for 0.5 V output at 1,000 Hz; MM phono input overload level 250 mV at 1,000 Hz; sens for line-level inputs 25 mV; 28 lb; 19 x 5.24 x 12.5 in. .... \$3,900  
**SL-2 Preamplifier.** Same as above except single-chassis version; 20 lb. .... \$1,995  
**SL-2L Preamplifier.** Same as SL-2 except there is no phono stage. .... \$1,695

## CONRAD-JOHNSON

### Premier Seven Preamp

Vacuum-tube preamp with FR2-100,000 Hz and .25% THD. Two tape processor loops and moving coil input ..... \$7,850

### PV9 Vacuum-Tube Preamp

With low-noise precision metal-film resistors; polystyrene capacitors in audio circuitry; facilities for 2 tape recorders; 2-way dubbing; phono, tuner, AUX inputs; 2 amp outputs; front-panel mute control. FR 20-20,000 Hz  $\pm$  0.25 dB phono; S/N 70 dB below 10 mV phono, 84 dB below 2.5 V output high level; THD and IMD 0.05%; gain 40 dB phono, 29 dB high level; max output 25 V; phono overload 500 mV at 1 kHz; 4.75 x 14 x 11.25-in ..... \$2,950

### PV8 Vacuum-Tube Preamp

With cathode follower outputs and solid-state voltage regulator designed for minimal AC imp; regulated filament supplies virtually eliminate infrasonic noise resulting from AC line fluctuations. Features 1% tolerance mil-spec deposited tin-oxide audio circuit resistors; audio circuit capacitors are polystyrene dielectric; volume control tracks within 0.5 dB; auto muting at turn-on, turn-off; 2 tape recorder loops with 2-way dubbing; 5-function mode switch; precision tracking volume control. Max output 40 V RMS; FR 2->100,000 Hz; <0.5% THD and IMD; hum and noise 20-20,000 Hz, phono 72 dB below 10 mV input, high level 84 dB below 2.5 V output; output imp <200 ohms; 10 x 16 x 3.75-in; 15 lb. .... \$1,685

### PV7 Vacuum-Tube Preamp

Stereo preamp with low-noise metal film resistors, polypropylene and polystyrene capacitors in audio circuitry, 2-deck tape monitoring with 2-way dubbing; inputs for phono, tuner, tape, AUX; 2 amp outputs. FR 20-20,000 Hz  $\pm$  0.25 dB phono; S/N 70 dB below 10 mV in phono, 84 dB below 2.5 V out high-level; THD and IMD 0.05%; gain 35 dB phono, 28 dB high-level; max output 25 V; phono overload 500 mV at kHz; 4.75 x 14 x 11.25-in. .... \$695  
**PV7 MC-Same as above with moving coil input** \$810

## COUNTERPOINT

### SA-11 Line-Level Control Amplifier

Full-featured line-level control center includes industrial-grade stepper motors to control 2 massive custom-built 41-position attenuators. Features full vacuum-tube power supply and audio circuitry; wireless hand-held remote control; Isolinear design for max isolation and extreme linearity. Inputs for tape; tape 2; aux; CD player; tuner; video. 6.7 x 19 x 19 in; 70 lb ..... \$5,495

### SA-9 Phono Equalizer/Preamplifier

Full-vacuum-tube phono-cartridge preamplification and equalization system with completely independent MC and MM circuits. Isolinear design for max isolation and extreme linearity. Input for MM and MC phono. FR 1-350,000 Hz  $\pm$  3 dB. 4.5 x 19 x 12.5-in; 25 lb ..... \$3,995  
**SA-9/11 Combo.** Features, functions, and inputs of SA-9 and 11 combined ..... \$9,490

### SA-5.1 Preamplifier

Preamp with inputs for MM phono, MC phono, tape, tape 2, AUX, CD player, tuner. FR 0.5-88,000 Hz  $\pm$  0.1 dB; max output 70 V; THD 0.08%; IMD 0.08% IHF; MM phono sens 0.5 mV for 0.5-V output at 1,000 Hz; MM

phono input overload level 700 mV; 2.03 x 19 x 17.03-in; 24 lb. .... \$1,895

### SA-3.1 Preamplifier

Preamp with inputs for MM phono, MC phono, tape, tape 2, AUX, CD player, tuner. FR 2.5-30,000 Hz  $\pm$  0.1 dB; max output 70 V; THD 0.18%; IMD 0.18% IHF; MM phono sens 2.5 mV for 0.5-V output at 1,000 Hz; MM phono input overload level 800 mV; 2.03 x 19 x 17.33-in; 18 lb. .... \$1,045

### SA-2 Preamplifier

Preamp with inputs for MC phono. FR 0.5-350,000 Hz; max output 38 V; 2.03 x 19 x 17.03-in; 18 lb. .... \$1,045

### SA-1000 Preamplifier

Preamp with inputs for MM phono, MC phono, tape, CD player, tuner. FR 2-30,000 Hz  $\pm$  0.1 dB; max output 30 V; THD 0.25%; IMD 0.3% IHF; MM phono sens 0.8 mV for 0.5-V output at 1,000 Hz; MM phono input overload level 500 mV; 2.23 x 19 x 7.1-in; 13 lb. .... \$745

## CROWN

### PSL-2 Preamplifier

Features seven inputs; versatile tape copying; seven-second turn-on; power switch; tape 1 and 2 monitor switch; detented treble and bass controls; center-detented output balance control; loudness switch; black polyester vinyl coated aluminum with black splatter coated steel; aluminum chassis; FR 10-50,000 Hz  $\pm$  0.25 dB; THD <0.0025% at rated output; 19.0 x 1.75 x 11.5 in; 11 lb. .... \$595

## DB SYSTEMS

### DBR-15B & 2A Preamplifier

Rack-mount precision pream and tone control with power supply. Combines DB-1B, DB-5 in a 19" rack unit. Auxiliary cable included ..... \$935  
 With oak cabinet ..... \$1,085

### DB-1A & 2A Preamplifier

Stereo preamp with separate DB-2A regulated power supply. THD  $\pm$  0.0008%, 20-20,000 Hz; IMD  $\pm$  0.001%; FR phono 10-40,000 Hz  $\pm$  0.07 dB, high-level 2-50,000 Hz  $\pm$  0/-1 dB; S/N A-wtd 89 dB phono, 90 dB line; filters: low-cut flat, 20 Hz, 36 Hz at 6 dB/octave phono only, high-cut flat, 5 kHz, 10,000 Hz at 6 dB/octave; output imp 1 kilohm; max output voltage 6 V into 10 kilohms/3,000 pF; input sens for 1 V output: phono 2 mV into 50,000 ohms/100 pF, high-level 120 mV into 50 kilohms; 8.5 x 7 x 3.2 in. .... \$495

**DB-1B & 2A.** DB-1A with low-noise high-level stage (-94 dB ref 1 V), reduced crosstalk, tight tracking volume control, all gold-plated jacks and solid oak cabinet with hand-rubbed tung-oil finish. 12 x 3.6 x 7 in. .... \$650  
**DBR-1A.** Same as DB-1A except mounted on 19" rack. Includes DB-2 A power supply ..... \$535  
**DB-1A-HL & DB-2A.** Preamplifier similar to DB-1A with 5 high-level inputs and no phono section. FR 1-250,000 Hz  $\pm$  3 dB; S/N 92 dB; THD 0.0006%; sens for line-level inputs 120 mV ..... \$375  
**DB-1B-HL & DB-2A.** Preamplifier similar to DB-1A-HL with lower noise (-94 dB ref 1 V); reduced crosstalk; tight tracking volume control; loudness compensation switch; gold-plated jacks; cabinet made of solid oak with hand-rubbed and buffed tung-oil finish ..... \$530

## dbx

### CX1 Preamplifier

Audio/video preamp with 2-channel switchable all-digital delay for ambience recovery. The built-in Dolby Pro Logic surround system has a 5-ch calibration signal and input-level adjustments for precise setup. Inputs for MM and MC phono, tuner, CD player, VCR, AUX, and 3 tape decks or 2 tape decks



## PREAMPLIFIERS

and 1 VCR (with video). Outputs for front L&R and side/rear stereo or Dolby Surround with center ch, 3 stereo-to-tape jacks, and a video-signal monitor. Features stereo audio external-processor loop; audio/video dubbing; independent recording and listening selectors; switchable tone controls (conventional bass/treble curves or low-bass only/spectral tilt); switchable infrasonic and high filter for all sources; precision-tracking 5-ch volume control; ch-mode controls for L/R stereo, RL reverse, L or R only, L+R mono, and L-R positions; headphone jack; anti-resonance chassis and aluminum feet... \$2,500

### DENNESEN ELECTROSTATICS

#### JC-80 Preamplifier

Dual mono, all FET, DC-coupled, fully complementary, push-pull. A preamp. No interstage coupling caps; feedback input stage; virtually unswellable; passive RIAA; each stage separately regulated. Completely mono, invertible phase. MM phono, MC phono, tape 1, tape 2, AUX, FR 1-15,000 Hz  $\pm 0.1$  dB; max output 20 V; THD 0.005%; IMD 0.005%; MM phono sens variable mV for 0.5 output at 1,000 Hz; MM phono input overload level 350  $\mu$ V; 19 x 1.75 x 12 in; 10 lb. .... \$2,250 ea

#### Sirius Preamplifier

Full-featured straight-line preamp with split passive RIAA and FET input. Inputs for MM phono, tape, tape 2, AUX, FR 5-100,000 Hz  $\pm 0.1$  dB; max output 10 V; THD 0.01%; IMD 0.01%; MM phono sens 2.5 mV of 0.5 V output at 1,000 Hz; MM phono input overload level 200 mV; sens for line level inputs 125  $\mu$ V. 19 x 2 x 8 in; 7 lb. .... \$489  
Sirius II. Dual mono; external power supply... \$650

### DENON

#### DAP-5500 Digital Preamplifier

Preamplifier with built-in D/A converter. Digital section features 4 D/A push-pull Super Linear Converter system; separate digital and analog chassis; 3 digital inputs (one optical, 2 coaxial); coaxial digital tape-monitor loop; four-times-oversampling digital filter; optical isolators between digital and analog sections; D/A converter output jacks. Audio section features Unity Gain Interface amplifier; Cannon-type input/output; 2 RCA line-in; 1 RCA line out; front-panel mounted RCA input/output jacks; two tape loops; source direct switch; separate power supplies for digital and analog sections; nonresonant, vibration-resistant chassis. 5.2 x 17.09 x 15-in \$1,500

#### PRA-1200 Stereo Preamplifier

Stereo preamp with video inputs and switching facility. 8 audio inputs; headphone amplifier; variable loudness control; MM & MC phono. THD < 0.001%; S/N MC 79 dB, MM 96 dB; FR 1-300,000 Hz  $\pm 0.2$  dB; S/N 105 dB; 4.8 x 17.08 x 11.81 in; 11 lb. .... \$475

### DISCRETE TECHNOLOGY

#### Compact Pro-Reference Preamplifier

Solid-state preamp. Features aluminum rack-mountable enclosure; high-current power supply; volume and power controls; designed to be matched with one of 3 different amplifier modules; direct-coupled circuit; switchable cartridge loading; switchable gain; Distech cable; modular construction; low imp main outputs. With MC Amplifier. .... \$2,995  
With Phono Amplifier Module .... \$2,495  
With Line Amplifier Module. .... \$1,895

### ELECTROCOMPANET BY MUSIC AND SOUND IMPORTS

Electrocompaniet preamps feature FR 5-100,000 Hz  $\pm 0.5$  dB; max output 15 V; MM phono S/N 84 dB; high-level sens 100 mV; no tone controls; balance and volume only; MM input imp 47 kilohms; external power supplies.

EC-1 Preamp. Includes MC, MM phono. 2 tape processor loops, tuner and inverts phase. Approx. .... \$1,995  
PreIIA. As above except no MC phono and no phase inverting. Approx. .... \$1,395

### FORTE AUDIO

#### Model 2 Class A Preamplifier

Dual-channel, non-inverting hybrid topology, low-noise, matched integrated gain devices enhanced with discrete pure class A biasing, active constant-current sourcing, and imp buffering. Accepts input from high and low output MC and MM cartridges; 4 high-level sources and tape recorder. Record/monitor facilities for recorder allow listening to one source while recording another. Internal selection of mip and capacitive cartridge loading. External power supply in separate chassis; gold-plated signal connectors; glass-epoxy circuit boards. Dist < 0.02% at 3 V; noise < -100 dBA referenced to 1 V input; gain +20 dB; imp 25,000 ohm; 19 x 1.75 x 7 in. .... \$790

### HAFLER

#### DH-110 Discrete Preamplifier

Preamplifier operates all discrete devices (no integrated circuits in signal path) in full symmetry format. Controls: volume, balance, bass, treble, input selector, phono selector, monitor selector, mono/stereo, high-pass filter; external processor loop, tone control engage. Features rack-mounting capability; single active circuit board; step-action volume control; integral muting circuit; 2 pairs of audio outputs; low-imp power supply; full power bandwidth to 200,000 Hz; 2 phono, tuner, AUX, 2 tape deck, EPL inputs; 2 tape (buffered), 2 line, EPL outputs; headphone jack. THD < 0.0006% at 1,000 Hz, 3 V RMS; phono input FR 20-20,000 Hz  $\pm 0/-0.25$  dB; S/N weighted 87 dB; rated output 3 V rms, 4-210,000 Hz; THD < 0.001% 20-20,000 Hz; 17 x 3 x 8.5 in; 10 lb; Assembled. .... \$500  
Kit. .... \$425

#### DH-100 Preamplifier Series 2

"No frills" preamp with RIAA EQ utilizing 1%-tolerance components; low-imp power supply; power on delay circuit. Inputs for MM phono, tape, AUX, tuner. Features volume, balance, treble, bass, tape monitor, power controls; 2 switched outlets. FR 20-20,000 Hz  $\pm 0.25$  dB; max output 8 V; THD < 0.005%; IMD below residual noise of current test instruments; MM phono sens 10 mV for 0.5-V output; 13.5 x 3 x 9 in; 7 lb. Assembled. .... \$275  
Kit. .... \$225

### HARMAN KARDON

#### Citation Twenty-Five Preamplifier

Preamplifier with remote control. Features inputs for CD, A/V 1, A/V 2, tape 1, tape 2, VCR 1, VCR 2, and phono; passive equalization in open-loop mode; moving coil head amp with resistance trim; moving magnet capacitance trim; hi-cut filter; subsonic filter; switchable bass and treble turnover; tone defeat; mono switch; headphone jack. Frequency response



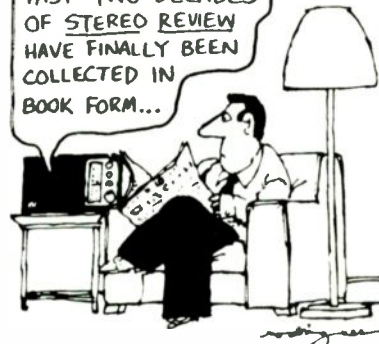
25-250,000 Hz; total harmonic distortion .002%; slew rate 120 V/ $\mu$ sec; estimated rise time 1.4  $\mu$ sec; RIAA equalization  $\pm 0.2$ dB; .... \$849

#### Citation Twenty-One Preamplifier

nputs for CD, CD direct, video sound, tuner, phono, 2 tape decks; ultrawideband fully discrete circuitry; switch for mono operation; front-panel headphone jack with adjustable level; frequency response 25-

# TOTAL HARMONIC DISTORTION

...AT LAST! THE FUNNIEST RODRIGUES CARTOONS FROM THE PAST TWO DECADES OF STEREO REVIEW HAVE FINALLY BEEN COLLECTED IN BOOK FORM...



Yes, now you can own **TOTAL HARMONIC DISTORTION** by Charles Rodrigues!

This handsome, 128-page paperback—with 118 classic cartoons, a foreword by William Livingstone, and an illustrated autobiographical sketch by Rodrigues himself—is only \$7.95. Enjoy your favorites again, catch the gems you missed, and share the laughs with friends!

**Makes a great gift!**

Get two copies for the full stereo effect!

**TO ORDER:** Send check or money order for \$7.95 per copy, plus \$1.50 for postage & handling to:

Perfectbound Press  
Suite 4118A  
1120 Ave. of the Americas  
New York, NY 10036

Type or print mailing address with order. New York State residents add 65¢ sales tax per copy. Outside U.S.: add \$1.75 postage & handling for first copy and 50¢ for each additional copy (U.S. bank funds only). Allow six to eight weeks for U.S. delivery, longer outside U.S.

# PREAMPLIFIERS

250,000 Hz; total harmonic distortion .002%; slew rate 120 V/ $\mu$ sec; estimated rise time 1.4  $\mu$ sec; RIAA equalization  $\pm 0.2$ dB; ..... \$849

## Citation Twenty-One Preamplifier

Inputs for CD, CD direct, video sound, tuner, phono, 2 tape decks; ultrawideband fully discrete circuitry; low negative feedback; active/passive symmetrical RIAA EQ; gold-plated jacks; mono switch; low-noise transistors; discrete MC head amp; subsonic filter (6 dB/octave,  $<3$  at 15 Hz); phase-correct loudness (+10 at 50 Hz, +3 at 250); bass and treble max boost/cut 10 dB; tone defeat. Max output 10 V \$599

## HEYBROOK BY D'ASCANIO AUDIO

### C-2 Preamplifier

Hand-assembled preamplifier with versatile input selections and black finish. Features special circuitry for CD input to prevent overloading; aluminum chassis; rear-panel power switch. Inputs for MM and MC phono, tape, AUX, CD player, tuner, and video. FR 10-50,000 Hz  $\pm 3$  dB; MM phono sens 85 mV for 0.5-V output at 1,000 Hz; line-level sens 160 mV. 17 x 3 x 13 in; 8 lb. .... \$898

## HITACHI

### HPT120AVSW AM/FM Preamp/Tuner

Quartz digital-synthesized tuner section; 20 AM/FM presets; unified infrared remote control with LCD display; audio inputs for phono, CD, tape; video inputs for TV, VCR, videodisc player; electronic volume and balance controls; 5-band graphic equalizer; video signal enhancer; rosewood end caps. \$450

## JADIS BY MADRIGAL

### JP-80 2-Part Tube Preamplifier

2 separate chassis (preamp and power supply). Uses no directly-delivered voltages to avoid noise generated by main input voltage. High voltage generated by custom-built oscillator circuit and amp. Inputs for MM phono; tape; aux. S/N 46-60 dB; MM phono sens 5 mV for 0.5-V output at 1,000 Hz. 48.5 lb. \$9,750

## JRM

### Preamp

Moving-coil input preamplifier with 2 tape and processor loops features optional tone controls; 10 V max output; THD 0.01%; FR 0-50,000 Hz +0, -1 dB. .... \$450/pr

## KENWOOD

### Basic C2 Preamplifier

Preamp with 2-step MM and 3-step MC inputs. Features single NFB-loop phono equalizer amplifier; 2-way tape dubbing with monitoring; source (rec out) tape selector; 2 AUX/video inputs; Kenwood NF-CR tone controls with selectable turnover; Super-coupled volume control for low noise at low volume; 4-way filter system; loudness switch; mono/stereo switch; headphone jack with level control; output on/off switch; power and output LED indicators. Frequency response 1-350,000 Hz -0.3 dB; THD 0.002% phono, 0.001% line; input sens/imp MM 2.5 mV/47 kilohms, line 150 mV/47 kilohms; signal-to-noise ratio 110 dB; MM 88 dB; 17.31 x 3.06 x 12.63 inches; 9.9 pounds ..... \$310

### Basic C1 Preamplifier

Features CD/AUX input; MM/MC cartridge selector; advanced single NFB loop phono equalizer amplifier; 2 tape inputs with dubbing and monitoring; subsonic filter; continuously variable loudness control; Kenwood NF-CR tone controls; LED input indicators; power-on muting relay. Frequency response 1-250,000 Hz -0.3 dB; total harmonic distortion 0.005% phono, 0.004% line; input sens/imp MM 2.5/47 kilohms, line 150 mV/47 kilohms; S/N 108 dB \$240

### KC-206 Audio/Video Preamplifier

Audio/video preamp with unified remote control. Features 7-band graphic equalizer; CD input; 2 video sound inputs; 2-way tape dubbing with monitor; FL display; EQ recording switch; subsonic filter; auto-function selector system (main/remote). FR 10-70,000 Hz -3 dB; input sens/imp 150 mV/33 kilohms (line), 2.5 mV/47 kilohms (phono); S/N 103 dB (line), 79 dB (phono). 16.56 x 3.5 x 10.75 in; 6.6 lb. \$230

## KINERGETICS

### KPA-1 Preamplifier

Designed to eliminate hysteresis distortion; MC phono, MM phono inputs, 2 tape loops; remote power supply; adjustable imp and capacitance for phono inputs; polarity switch. FR 2-500,000 Hz; slew rate  $>20$  V/ $\mu$ sec; gain 60 dB; 20lb; 19 x 2.5 x 16.25 in \$795

## KLYNE AUDIO ARTS

### SK-5A Preamplifier

Full-function stereo preamplifier with ultra-low distortion and high-resolution design. Features control to invert absolute phase; balanced differential outputs. Inputs for tuner; CD/AUX; tape; MM/MC phono; output imp 600 ohms; input imp phono 0-47,000 ohms. 2.5 x 19.0 x 12.5 in; 12 lb. .... \$3,250  
SK-4A. As above, straight-line version without line amps, phase inversion switch, or mode switch \$2,450  
With optional line amps installed. .... \$2,695

### SK-6 Preamplifier

Full-function stereo preamplifier with low distortion and high-resolution design. Features six high level inputs with optional user installable MM/MC phono board; independent listen and rec circuitry; inputs for phono/AUX, CD, tuner, tape 1, tape 2, and video/AUX; output imp 300 ohms; input imp phono 0-47k ohms. 2.5 x 19.0 x 11.5 in; 10 lb. .... \$1,450  
With optional phono board. .... \$1,950

## LAZARUS ELECTRONICS

### Cascade Deluxe Preamplifier

Hybrid preamplifier with vacuum tubes and FET's. Features MC output; 6 inputs; full switching capability; auto muting; front panel mute; power switching; tiffany connectors for phono, CD and main outputs; slim line chassis; black, fully anodized aluminum chassis; 74 dB gain; switchable phono loading \$1,200

### Cascade Classic Preamplifier

Vacuum tube preamp. Features 6 inputs; auto muting; front panel mute and power switching; 50 dB gain; 47k input impedance ..... \$950

### MC-1 Pre-Preamplifier

Moving coil step-up pre-preamplifier. For using low output MC cartridges with tubes; 28 dB gain; 150 ohm preset loading; adjustable phono load. .... \$650

### Cascade Basic Preamplifier

Tube preamp with inputs for MM phono; tape; tuner. FR 10-32,000 Hz  $\pm 3$  dB; S/N 90 dB; THD 1.2%; MM phono sens 1.5 mV for 0.5-V output at 1,000 Hz; MM phono input overload level  $>250$  mV at 1,000 Hz; line-level sens inputs 50 mV ..... \$650

## LINN PRODUCTS

### LK1 Remote-Controlled Preamp

Stereo microprocessor preamp with independently



adjustable input-level matching; all switching and level adjustments on board are electronic. Input for moving magnet phono; moving cartridge phono input; tape 1 and tape 2 inputs; auxiliary tuner input. 3 x 10.5 x 10.5 in; 9 lb. .... \$1,050

## LINEAGE

### CP 100 Control Preamplifier

Class-A preamp with all-discrete audio circuitry. Features full-complementary direct-coupled wide-bandwidth design using all Field-Effect transistors; TX servo to eliminate all capacitors in signal path except as required for phono equalization; complementary differential inputs; 2-stage phono equalizer; electronic input switching; front-panel phono gain for both MM and MC phonos; rear-panel control with continuously variable resistive cartridge loading; tone controls for low bass and upper treble; tone in, mute, stereo/mono, and polarity invert switches; gold-plated connectors. Inputs for phono; tuner; CD player; video sound source; aux; 2 tape monitors for 2-way dubbing. Rated output 3 V rms; max output 15 V. Includes separate power supply to provide 3 switched AC convenience outlets. Matte silver with removable teak pedestal base. 17 x 12 x 6.36 in (with base) ..... \$1,995

## LOGAN LABS BY SYMDEX

### PA-10B Preamplifier

Electron tube phono-only preamp with separate power supply. Features symmetrical layout for both channels; muting function for no system crash due to power loss; slow turn-on circuitry to prevent thermal shock to tubes. Input for MM phono, for compatible MC the 1010T is required. Frequency response 1-3,000,000 Hz  $\pm 3$  dB; max output 160 V; total harmonic distortion  $<0.2\%$ ; IMD  $<0.2\%$ ; separate transformer; 19 x 3.5 x 7 in. .... \$5,495  
HLE-1010T. Companion pre-preamplifier for PA-10B ..... \$3,495

## MARK LEVINSON BY MADRIGAL

### ML-6B Modular Preamps

Mono preamps in 2 separate chassis (with separate power supplies) with only essential control functions and connection. L-series open-frame plug-in modules; all audio circuitry completely discrete and operates in Class-A; each chassis has 1 L1 line amp and 1 phono amp module for any cartridge; L1 provides up to 26 dB gain with 0.003% THD typical and 0.002% IMD; S/N 100 dB (unwtd below 2 V reference); gain of L2 phono module 38 or 44 dB; L3 gain 67 dB; L3A gain 55 dB. Phono module THD  $\pm 0.008\%$ , IMD 0.005%. PLS-154 power supply maintains load regulation of 0.05% with wideband noise output 18  $\mu$ V. Camac connectors for all input and output connections; gold-plated cartridge-loading sockets on main circuit board and internal switches to select 10, 20, or 26 dB of line gain. With L2 ..... \$7,460/pr  
With L3 or L3A ..... \$8,250/pr

## PRICES LISTED

are manufacturers' suggested retail prices  
(also referred to as *list* prices);  
actual selling prices are set by individual dealers.  
All prices are subject to change without notice.



# Every Speaker We Sell Gets Feedback.

COMMENTS THESE SPEAKERS  
ADD MUCH ENJOYMENT  
TO MY SEX LIFE.

J.F., Huntington, New York

COMMENTS THE WHOLE  
BLOCK LOVES THEM!

J.B., Milledgeville, Georgia

COMMENTS THEY LOOK RAD,  
SOUND RAD AND ARE RAD.

D.S., Allentown, Pennsylvania

COMMENTS EXCEPTIONAL!  
HEAVY BASS! PINNACLE  
HEADS! JAWLIN' SOUND!

J.T., Tulsa, Oklahoma

COMMENTS They sure do  
vibrate the house.  
They're great!

C.O., Moline, Illinois

COMMENTS I want to  
knock down a wall.

M.K., Atlanta, Georgia

COMMENTS I LOVE THE TREE  
STUMP PULLING BASS!

C.R., El Paso, Texas

COMMENTS God bless you and your  
wonderful contribution to music!

P.G., Olympia, Washington

COMMENTS I wouldn't buy  
any other brand, the last  
ones lasted 15 years.

R.S., Schaumburg, Illinois

COMMENTS Bullet Proof  
Killer Bass!

R.F., Aberdeen, Washington

COMMENTS I used to listen to my wife,  
now I listen to my Cerwin-Vega speakers.  
Thank You!

L.L., Brookeville, Maryland

COMMENTS Boom Boom!

R.K., South Pasadena, California

Our customers have a way with words. In fact, every week we receive hundreds of customer comments. All of which we learn a little something from. And most of which serve as a pretty good indication that Cerwin-Vega speakers will give you great sound, years of service, and maybe even something more.

Writer's cramp.

 **Cerwin-Vega!**

For product information, please write or call: Cerwin-Vega/555 East Easy St., Simi Valley, CA 93065 805-584-9332  
Cerwin-Vega Canada/2360 Midland Ave., Unit 21, Scarborough, Ontario M1S 4A9 Cerwin-Vega Europe/Grynderupvej 12, P.O. Box 40, DK-9610 Norager, Denmark

CIRCLE NO. 71 ON READER SERVICE CARD

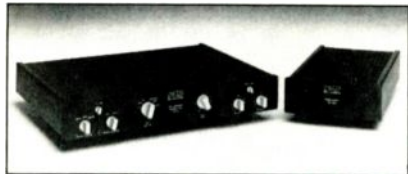
# PREAMPLIFIERS

## ML-7A Preamplifier

Inputs for 5 line sources, monitors 2 tape decks, with choice of 3 plug-in phono sections for virtually any cartridge. All audio circuitry completely discrete and operates in Class-A mode. Fitted with 2-L1 line amps. PLS-154 power supply maintains load regulation of 0.05% with wideband noise output of 18  $\mu$ V; external 5-pin self-locking connector parallels. Camac phono inputs for cartridge loading; 10 or 20 dB of line gain. L1 provides up to 26 dB of gain, with 0.003% THD and 0.002% IMD typical, typical S/N of 100 dB unwt'd below 2 V ref. Hand-brushed black anodized finish. ML-7: 2.25 x 19 x 10.12 in; PLS-154: 4.36 x 4 x 10.62 in; 14 lb. With no phono section ..... \$4,720  
With L2 phono module. Gain 38 or 44 dB . \$5,725  
With L3 or L3A. L3 gain 67 dB; L3A gain 55 dB ..... \$6,420

## No 26W/High Gain Phono Preamplifier

Matrix style DC switching; relays hermetically sealed, bifurcated contacts of silver with gold plating; 6-line level inputs; CD; tuner; Aux-1; phono/aux-2; tapes 1 & 2; 2-tape inputs; non-buffered tape outputs; absolute phase of main outputs or stereo/mono operation selection on front panel; independently switchable gain for each channel; internal gain adjustment provided through PC mount switches for each



channel providing gain of 6, 12, 18 at the unbalanced output or 12, 18, or 24 dB at the balanced output; custom-made Penny and Giles conductive plastic volume potentiometer; dual monaural design with separate circuitry for each channel; PLS-226 chassis contains 3-power supplies, 2 provide unregulated DC current for 2 audio channels and 3rd separately rectifies and filters circuit-supplies power to relay control circuit; 2 custom-made toroidal transformers; Faraday shields reduce AC line-coupled noise; 9 gold-plated contacts for connecting cable; pos, neg, and ground for each audio channel; 4 discrete, fully independent regulators; 3-pin Neutrik XLR connectors; all-aluminum chassis; Preamp 2.8 x 17.5 x 13.1 in; PLS-226 2.8 x 7.6 x 13.1 in; 321 lb ..... \$4,750  
**No 26W/Low Gain Phono.** Same as above but with low gain phono. .... \$4,750  
**No 26 No Phono.** Same as above but without phono ..... \$3,990

## No 26L-10A Stereo Preamplifier

Simplified version of L-series circuitry in single circuit board configuration. All audio circuitry completely discrete and operates in Class A. Inputs for 2 line sources, monitors tape deck, phono section for virtually any cartridge. Camac connectors. Line section provides up to 22 dB of gain with typical distortion of 0.004% THD and 0.004% IMD and typical S/N of 95 dB unwt'd below 2 V reference. Phono section offers selectable gain of 42, 53 or 63 dB. Six internal switches and gold-plated loading sockets allow infinite cartridge-loading capability. Typical distortion for phono circuit are 0.014% IMD and 0.005% IMD and S/N typically -72 dB. Internal power supply with high-speed push-pull regulator; biased for Class A; load regulation of 0.05%; wide-band noise output 23 V; 7 or 17 dB line gain. Hand-brushed anodized finish. 2.25 x 19 x 10.12 in \$3,325

## ML-12A Stereo Preamplifier

For use with ML-11 power amp, or with other power amp if used with PLS-124 power supply (see below). Inputs for MM phono, MC phono, tape, AUX, tuner. Phono section accepts any cartridge, gain 42, 53, or 63 dB and gold-plated sockets for precise cartridge loading. Line-level section gain 4, 9, 13, or 17 dB to

match amps, speakers, sources. Gold-plated Camac connectors for inputs and outputs and separate level controls for each section. Hand-engraved black anodized front panel. Phono S/N > 75 dB unwt'd at 63 dB gain; THD 0.006% and IMD 0.004% SMPTE at 6 V output; S/N < 92 dB below 1 V ref. .... \$1,600  
**PLS-124.** Optional power supply with separate rectification and filtering for each ch. Ripple 40 mV before regulation in ML-12A. .... \$455

## McINTOSH

### C-34V A/V Control Center

A/V control center with Compander system for controlling sources' dynamic range. Features inputs for laser, tape 1-3, VCR 1/2, TV, tuner, phono; 3 switched, 2 unswitched outlets in rear; provision for 2 sets of speakers; record and listen selector; built-in 5-band equalizer; master volume control; 38 lb \$2,195

### C-31V A/V Control Center

A/V control center with wireless IR remote control. Features McIntosh Electronic Precision Ladder Attenuator; 5-band equalizer; adjustable loudness contour; 9 source inputs; switching of 2 VCR's with two-way dubbing; remote-control expandable allowing remote control in two additional listening areas ..... \$1,895

## MELOS AUDIO

### MA-222 Hybrid Preamplifier

Dual mono construction; 2 heavy aluminium chassis; zero feedback circuitry; dual toroidal transformers; 10 regulated power supplies; heavy gold plate connectors; inputs for 2-CDs, phono, tuner, 2-Aux; 2 tape monitor loops; 3 main outputs; phase reversal switch; phono gain 65 dB; FR 5-300,000 Hz  $\pm$  1 dB; imp 20 ohms; maximum overall gain 85 dB \$2,895

### CD-T Preamplifier

CD-T preamplifier combined with CD-T II compact disc player and a flexible all tube line preamplifier. Features 1 CD input; input for tuner, video aux, aux phono; 2 tape monitor loops; 2 main outputs; 26 dB of gain; max output 26 V; output imp 100 ohms; fully regulated power supplies, toroidal transformer; gold-plated connectors ..... \$1,895

### GK-1+1 Preamplifier

Vacuum-tube preamp with remote power supply and stepped attenuators. 3 selectable MC and MM phono sections; each amplification stage powered by one of nine regulated power supplies; passive RIAA EQ; auto muting circuit protection. FR 2-300,000 Hz  $\pm$  1 dB; THD 0.07%, 20- 20,000 Hz; S/N 65-85 dB (phono/sens dependent); 19 x 3.5 x 13.25 in; 15 lb (preamp)\$1,395

## MERIDIAN BY MADRIGAL

### 201 Control Unit

Multi-room remote capability and ability to play 2 different sources simultaneously in any combination of 14 remote locations. Inputs for MM phono; MC phono; tape 1 & 2; aux; CD player; tuner .. \$1,150  
**209.** Remote master control works with 201 and other Meridian 200-series components; controls 8 inputs, volume, and mute ..... \$150

## THE MODSQUAD

### Line Drive Preamplifier

Passive preamplifier features Noble film potentiometers, Lorlin selector switches; wonder wire; wonder solder; Tiffany connectors and LC/OFC teflon insulated wires; selector for 5 sources; mode selector; mute; tape 1 or 2; balance control; jacks for 2-pair of power amps ..... \$500

## MOTIF BY CONRAD-JOHNSON

### MC7 Dual-Mono Preamplifier

Dual-mono all-FET preamp with remote power sup-

ply. Features precision-matched field-effect transistors for channel-to-channel balance; exclusive use of polystyrene capacitors throughout audio circuits and power supply regulators. Inputs for MM phono, MC phono, tape, tuner. FR 5-100,000 Hz  $\pm$  0.5 dB; max output 10 V; THD 0.1%; IMD 0.1% IHF; MM phono sens 0.35 mV for 0.5-V output at 1,000 Hz; MM phono input overload level 150 mV, sens for line-level inputs 50 mV; 3.5 x 19 x 12-in.; 15 lbs. .... \$3,500

### MC8 Stereo Preamplifier

Similar to MC7 except stereo with internal power supply. Inputs for MM phono; MC phono; tape; tape 2; CD player; tuner. FR 5-100,000 Hz  $\pm$  3 dB; THD 0.1%; MM phono sens 0.35 mV for 0.5-V output at 1,000 Hz; sens for line-level inputs 50 mV; MM phono input overload level 150 mV at 1,000 Hz. 3.5 x 19 x 12 in; 15 lb ..... \$2,250

**MC9 Stereo Preamplifier.** Line only preamp \$1,295

## NAD

### 1700 Monitor Series Preamp/Tuner

Remote control including motor-driven volume control; semi-parametric tone controls; EPL; bass EQ; 2-way tape-dubbing; 50 dB stereo separation; S/N ratio > 80 dB; IF wide/narrow; 14 resets, mixed AM and FM; rack mountable ..... \$798

### 1300 Monitor Series Preamplifier

Features high-resolution phono preamp; bass EQ; null switch to amplify L-R difference signal; low-noise MC pre-preamp; external processor loop; semiparametric tone controls (bass center switchable to 50, 120, or 250 Hz, treble to 3,000, 6,000, 12,000 Hz) with 1.5-octave bandwidth. 12-dB max boost or cut; 2-way tape dubbing; infrasonic filter. Max output 12 V; RIAA response accuracy  $\pm$  0.3 ..... \$498

### 1240 Preamplifier

Features discrete transistors in phono preamp; inputs for MM or MC phono, CD player, tuner, tape, video, aux 1, aux 2; treble boost or cut max 7 dB at 10,000 Hz, bass boost or cut max 10 dB at 50 Hz; switchable infrasonic filter down 3 dB at 12 Hz at 12 dB/octave; high-current (15 V) headphone amp; bass EQ; 2 outputs; cartridge capacitance loading. RIAA response accuracy  $\pm$  0.5 dB. .... \$248

## NAKAMICHI

### CA-7A Control Amplifier

Preamp with full-system wireless remote control of Nakamichi series 7 or 5 components. Features total isolation of digital and analog sections; isolated ground technology; acoustical fine-tuning system; motor-driven volume control; inputs for MM & MC phono, 2 tape, 2 AUX, tuner, CD; 2 outputs; multi-room remote control with RS-7 remote sensor. Input sens/imp MC (switchable) 40-80-160  $\mu$ V/100 ohms, MM 2.5 mV/50 kilohms, line 150 mV/12.5 kilohms; THD < 0.002%; FR 1-100,000 Hz  $\pm$  3 dB. .... \$2,995

### CA-5 II Control Amplifier

Features 5 high-level inputs; phono input; copies between 2 tape decks in either direction; recording deck monitors copying procedure; all inputs and 2-sets of output terminals are gold-plated; remote power connector optional (SPC-1 power strip); MM- or MC-cartridge phono input; output level; bass; balance; treble; low-noise FETs; bipolar transistors; multi-regulated isolated ground power supply; max pre-out level 7 V; 1% THD at 20-20,000 Hz; max input level 1,000 Hz; stereo sep 110 dB at 100 Hz CD; FR (tuner/CD/Aux/Tape) 1-100,000 Hz +0/-3 dB ..... \$1,095

## NIKKO AUDIO

### Beta 600 Preamplifier

Two-band parametric equalizer with variable level, variable bandwidth, and selectable frequency turn



# PREAMPLIFIERS

over controls; 2-record out selectors; CD direct circuit isolated from other analog circuitry with the shortest signal path as possible; S/N 104 dB; MM/MC selector; 2-output terminals; gold-plated pin jacks; mechanical switches; THD .002%; S/N 100 dB; channel sep Hz 76 dB at 1,000 Hz; 19" rack mountable with black die-cast aluminum front plates. . . . \$600

## Beta 400 Preamplifier

Preamplifier with variable level and variable bandwidth, and selectable frequency turnover controls; CD direct circuit isolated from other analog circuitry with the shortest signal path as possible; S/N 104 dB; MM/MC selector; 2-output terminals; gold-plated pin jacks; mechanical switches; total harmonic distortion .002%; S/N 100 dB; channel sep Hz 76 dB at 1,000 Hz. . . . \$440

## NOVA

### CPA-100A Preamplifier

All-discrete, all-JFET preamplifier with option for MC amp. Inputs for MM, MC phono; tape; tuner; CD player. Max output 12 V; THD 0.01%; IMD 0.01%; MM phono sens 2.5 mV for 0.5 V output at 1,000 Hz; MM phono input overload level 250 mV; phono gain 34 or 40 dB switchable; line-level sens 98 mV. Black finish with oak side panels. 19 x 4 x 9.5 in; 14 lb. . . \$1,995

PPA-202. JFET MC head-amp card plugs into CPA-100A. Features selectable input imp; 3 gain settings; MC phono input. High-overload capability allows greater than 1 V rms undistorted output. FR 0.05-1.5 mHz  $\pm$  3 dB; S/N 71 dB; THD 0.01%. 6.75 x 3 x 1.5 in. . . . \$300

## ONKYO

### Grand Integra P-308 Preamplifier

Dual-mono preamp with electrically separate left and right circuitry and 2 sets of preamp outputs: output #1 is from precision-paired master volume control using ALPS potentiometers, output #2 includes fines balance adjustment via stepped left and right precision resistor attenuators. Features passive tone control system; dual record output selectors; individual stereo/mono switching for output 1 and 2; contra bass equalization. Wood side panels included. Inputs for MM phono; MC phono; tape; 2; tape 3; AUX; AUX 2; tuner; CD player and DAT with input common-mode noise filters. FR 0.8-170,000 Hz  $\pm$  3 dB; phono S/N 92 dB; THD 0.0005%. 18.25 x 4 x 15.88 in; 19 lb. . . . \$660

### Integra P-304 Preamplifier

Dual-mono preamp with electrically separate left and right circuitry. Features direct tone controls with passive equalization; dual record output selectors; adjustable phono gain and load imp. Inputs for MM phono; MC phono; tape; 2; tape 3; AUX; AUX 2; tuner; CD player. FR 0.8-170,000 Hz  $\pm$  3 dB; phono S/N 85 dB; THD 0.005%. 17.75 x 4 x 15.88 in. . . \$530

### P-3160 Preamplifier

Preamplifier with selective tone control. Features CD direct input; simulated stereo circuitry; direct play



function; motorized volume control; RI remote compatible with supplied controller; 7 inputs; sleep timer function when used with Onkyo T-4120 tuner; front panel VCR jacks. . . . \$270

## PARASOUND

### P/FET-900 Class A Preamplifier

FET class A preamplifier. Features FET discrete transistors; electronic logic switching; polypropylene

capacitors; regulated power supply; gold-plated jacks; muting relay; variable loudness contour; 10-amp power switch; 3 AC outlets; mono switch; 2-tape monitors; 2-direction dubbing; separate CD, Video inputs; FR 10-80,000 Hz  $\pm$  0.5 dB; THD < .005%; S/N 95 dB; 17.25 x 2.5 x 9.5 in. . . . \$395

## PERREAUX

### SM3 Preamplifier

High-voltage MOSFET design; inputs for MM/MC cartridges; tuner; tape. CD. FR 20-50,000 Hz  $\pm$  0.25 dB; input sens MC 175  $\mu$ V rms @ 1 kHz/47 kilohms, 100 pF, MM 1.8 mV rms; AUX/CD 350 mV rms/20 kilohms, all other inputs 100mV rms/25 kilohms; THD/IMD phono 0.005%, all other inputs 0.008%; channel sep 70 dB, 20-20,000 Hz, all inputs. 1.75 x 19 x 13.5-in; 13 lb. . . . \$2,200

### SA33 Class A Preamplifier

Features tone controls and large power supply. Gold plated input/output sockets. High voltage MOSFET design; inputs for MC/MMcartridges; tuner, tape. CD. FR 20-50,000 Hz  $\pm$  0.25 dB; input sens MC 200  $\mu$ V rms at 1 kHz/47 kilohms, 100 pF, MM 2.8 mV rms; aux, CD 350 mVrms/250K ohms; THD/IMDphono 0.005%, all other inputs < 0.009% 20 Hz-20,000 Hz at rated output; channel sep 68 dB 20-20,000 Hz, all inputs. 1.75 x 19 x 13-in. 12lb. . . . \$1,750

## PIONEER

### C-90 A/V Preamplifier

Features wireless remote control; motorized rotary volume control; 5 audio inputs; 5 video inputs (3 input/outputs, 2 input only); 3 different power supplies; copper-plated chassis; 2 video outputs; recording selector/tape-dubbing switch; subsonic and high/low filters; loudness, muting, and tone controls; video enhancer (detail, sharpness, and noise cancel). 9 x 21.7 x 19 in. . . . \$900

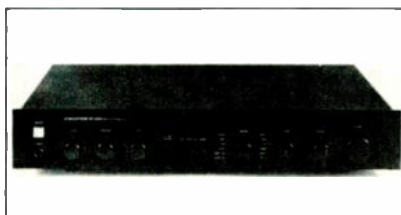
## PROTON

### 1100 Preamplifier

Stereo preamp with separate MC phono input. Features built-in headphone amp; bass equalizer switch; listen/record selector; high-level pre-out 18 V, total harmonic distortion 0.003% (20-20,000 Hz, 2 V output); IMD 0.003% (2 V output); FR 20-20,000  $\pm$  2 dB; high-level input resistance 30 kilohms; line-level input sens 150  $\mu$ V, 2.5  $\mu$ V MM phono, 0.2  $\mu$ V high-level MC, 0.1  $\mu$ V low-level MC; S/N A-wid 105 dB line level, 94 dB MM phono, 79 dB MC phono; bass control at 100 Hz  $\pm$  10 dB; treble control at 10,000 Hz  $\pm$  10 dB; bass EQ at 75 Hz  $\pm$  3 dB; infrasonic filter at 20 Hz -3 dB, slope -12 dB/oct; phono input capacitance selectable between 100, 200, 320 p-f; phono overload MM 290  $\mu$ V (1,000 Hz, 0.1% total harmonic distortion); MM, phono total harmonic distortion 0.006% at 4.5 V output, 0.01% MC phono; RIAA response  $\pm$  0.2 dB MM phono,  $\pm$  0.3 dB MC phono. 16.5 x 2.5 x 13 in. . . . \$399

### AP-1000 Preamplifier

Stereo preamp with separate record and listen selectors. Features bass, presence, and treble controls with bypass circuitry dual-mono construction with separate power supplies for both channels; two discrete



preamplifiers; phono preamp section with FET's; selectable input capacitance for MM cartridges; multiple gain levels for MC cartridges; bass EQ switch;

inputs for phono, tuner, CD, video, tape 1, tape 2; headphone jack. THD 0.003%; IMD 0.003%; FR 20-20,000 Hz  $\pm$  2 dB; high-level input resistance/capacitance 26,000 ohms/47pF; residual noise 0.02 mV; video S/N 103 dB; tape play S/N 103 dB; MMphono S/N 91 dB; MC phono S/N 70 dB. 16.5 x 3.2 x 13.5 in; 14.3 lb. . . . \$259

## PSAUDIO

### 5.5 Preamplifier

Full-function preamp. Features all MOSFET circuitry; dual-mono power regulation; extra-large transformer; moving-magnet and moving-coil phono sections; 5 gain selections for phono cartridge; cartridge loading; high-level bypass; remote power supply. THD < 0.01%; IMD < 0.01%. . . . \$1,195

### 4.6 Preamplifier

Full-function preamp. Features moving-magnet and moving-coil phono sections; 5 gain selections for phono cartridge; cartridge loading; high-level bypass; remote power supply. THD < 0.01%; IMD < 0.01%; MM noise -82 dB; MC noise -78 dB. 15 lb. . . \$659

## QUAD

### Quad 44 Control Unit

Preamp/control system with lift/step bass control to boost low-frequency output of small speakers, attenuate bass output when operating as filter to give 5-dB drop at 2 frequencies;  $\pm$  2-dB tilt control that shifts tonal balance; variable filter slope control at 5,000, 7,000, 10,000 Hz; all tone controls have defeat positions; balance/mono switch; radio, aux, disc, tape 1, tape 2 input selectors with optional microphone or MC phono inputs available. Input sens/imp 1 mV at 35 mV in/47 kilohms phono, 100 mV at 5 V in/39 kilohms tape, 1 M ohm radio and aux; FR  $\pm$  0.5 dB 30-20,000 Hz phono RIAA, 30-20,000 Hz -0, +1 dB; high-level distortion 0.02%; residual noise -104 dB A-wtd; 12 x 4 x 8 in. . . . \$995

### Quad 34 Control Unit

Preamp control unit with tilt control; bass control; inputs for disc, tape, tuner, aux; 3 push-button filters; bass lift and step. Distortion worst case any input 0.5%. Residual noise A-wid volume control at minimum -105 dB; FR  $\pm$  0.3 dB any input except phono, FR phono RIAA  $\pm$  0.5 dB. . . . \$795

## RCA

### MPT200 Audio/Video Preamp Tuner

Dimensia A/V control center with unified remote control and on-screen status indication when used with Dimensia monitor lets you select inputs from up to 13 Dimensia components and 5 nonsystem components. Features automatic input selection; remote control volume, mute, direct access and station scan, and off/on; SystemLink cabling; simultaneous recording and playback; auto status indication; auto switching; quartz-PLL synthesis tuning; 20-station random-tuning memory; preset channel scanning; FM search tuning; electronic volume control; signal processing loop; preset turn-on volume; fluorescent display; muting; bass, treble, and balance controls; 4 AC convenience outlets. Tuner section: FM sens 12.2 dBf; S/N 73 dB (mono); image rejection 45 dB; sel 60 dB; sep 40 dB at 1,000 Hz; capture ratio 1.5 dB; FM FR 30-15,000 Hz. 14.63 x 4.13 x 13.38 in. \$339

## REVOX

### B252 Preamplifier

Microprocessor-controlled preamp with input sensitivities programmable into nonvolatile memory and infrared remote control. Inputs for MM phono; MC phono; tuner; tape; tape 2; AUX; phono 2; CD player; EQ. FR 20-20,000 Hz  $\pm$  0, -0.2 dB; THD < 0.01%; S/N 96 dB (line input), 75 dB (phono input); MM phono sens 1.6-23 mV for 5-mV output; sens for line-level inputs 160 mV to 2.3 V. 17.7 x 6 x 13 in. . . \$1,400

# PREAMPLIFIERS

## ROTEL

### RC870BX Stereo Preamplifier

Flat preamp (no tone controls) with inputs for MM phono, MC phono, tape 2. Frequency response 4-100,000 Hz +0.5 dB, -0.3 dB total harmonic distortion 0.004%; IMD 0.004%; MM phono input overload level 180 mV, MM/MC signal-to-noise ratios 80/70dB ..... \$449

RC850 Stereo Preamplifier similar to above but has 2 tone controls ..... \$249

## JEFF ROWLAND DESIGN GROUP

### Coherence One Preamplifier

Solid-state FET preamp with companion regulated power supply. Accepts all MM and MC cartridges directly. Direct-coupled design from input to output. Split-passive RIAA equalizer minimizes phono equalizer errors. No negative feedback; propriety design optimizes low-level signal recognition. Provides inputs for 1 phono and 3 high-level inputs. Tape rec outputs selectable from any input. Features phase reversal and full muting from front panel; separate right/left channel balance controls; master volume; balanced outputs standard; outputs mute upon powerup or error. 19 x 1.75 x 13 inches; 37 pounds ..... \$3,950

## SAE

### X1P X-Series Preamplifier

—Computer direct-line fully discrete preamp. Features separate power supply, loading for MM and MC phono inputs, rack mountable. Inputs for MM phono, MC phono, tape, AUX. FR 20-20,000 Hz  $\pm$  0.1 dB; max output 17 V; THD 0.01%; IMD 0.01%; MM phono sens 0.07 mV for 0.5 V output at 1,000 Hz; 19 x 1.75 x 12.5 in; 14 lb. .... \$1,200

### P102 Preamplifier

Computer direct-line preamp with 3 digital tone memories, electronic volume and balance controls. Features sequential audio muting to provide crossfade between input sources; alphanumeric displays of all functions. Inputs for MM phono, MC phono, tape, tape 2, AUX, phono 2, CD player, tuner, external processor. Frequency response 20-20,000 Hz  $\pm$  0.5 dB; max output 7.5 V; THD 0.025%; IMD 0.025% IHF; MM phono sens 160 mV for 0.5-V output at 1,000 Hz; MM phono input overload level 240 mV. 19 x 3.5 x 14 in; 17 lb. .... \$449

## SANSUI

### C-1000 Control/Preamplifier

Preamplifier with full-function remote control. Features multiple audio inputs; 2 video inputs; motor-driven volume control; delay-line video enhancer; monitor output; keyboard instrument input; variable loudness; remote mute. Preamp output 1,000 mV/1.5 kilohms; FR 10-100,000 Hz. 3.6 x 17 x 9.4 in; 7.1 lb. .... \$190

## SOUNDCRAFTSMEN

### DX 4200 Preamplifier/Equalizer

Combination preamp/equalizer with digital audio and video inputs. Features in/out balancing to 0.1 dB; phono preamp has variable cartridge loading (50-800 pF, 100/47,000 ohm) adjustable  $\pm$  20 dB gain MC

The listings are based on data provided by the manufacturers. For more product information, contact an authorized dealer or the manufacturer directly. Manufacturers' addresses and phone numbers are listed in the directory beginning on page 217.

variable reluctance or MM cartridge inputs; 3-way tape dubbing; 2 external signal-processor loops; conventional line outputs plus separate autobridge line outputs for auto mono bridging of most amps; EQ S/N 114 dB; passive-coil filters with 15 dB boost or cut for each octave; differential/comparator circuitry for true 0.1 dB unity-gain equalizer balancing; 19" rack-mount front panel; includes frequency spectrum analyzer test record and instant reset Computone charts; 5.25 x 19 x 11 in. .... \$699

DX4000. Same as DX4200 without graphic equalizer but with 3 external signal-processor loops .... \$439

### Pro-Control Four-Control Center/Preamp.

Digital C-MOS MOSTROL. Features five tape monitors for audio or video tape, CD, tuner and phono inputs. Two signal processor loops, sub-sonic filter, and direct mode to bypass all processing. Headphone jack, auto-bridge circuit to triple amplifier output. Frequency response 20-20,000 Hz  $\pm$  0.1 dB; total harmonic distortion <0.005%; signal-to-noise ratio: phono 97 dB, high-level 116 dB. Rack mount front panel. 19 x 3.5 x 10.5 inches. .... \$699

Pro-Control Three Control Center/Preamp. Same as above, except with two tape monitors and one signal-processing loop. .... \$49

### DX3000 Preamplifier

Features bass and treble controls; 2 tape monitors with dubbing; stereo video inputs; loudness compensation; signal-processor input/output. Inputs for MM phono, tape, tape 2, CD player, tuner, video. CD inputs matched to high dynamic range of players. FR 5-60,000 Hz +0, -1 dB; S/N 95 dB; THD 0.01%; MM phono sens 1.4 mV for 0.5-V output at 1,000 Hz; MM phono input overload level 200 mV at 1,000 Hz; sens for line-level inputs 140 mV. 19 x 2.36 x 10 in; 10 lb. .... \$329

## SHERWOOD

### AP-7020 Preamplifier

Features discrete pure complementary flat amplifier; loudness switch; ultra-low bass EQ; gold-plated phono jack; switchable MM/MC phono gain amplifier; switchable tone control turn-over frequency; direct switch (tone bypass); active high and subsonic filter; record out selector switch; 2 sets of pre-amp output jack; external processor in/out jack; muting switch. 4.1 x 17.3 x 11 in. .... \$479

### AM-7040 Preamplifier

Features high speed MOSFET; huge power reserve; overload protection; multi-stage LED power indicator; variable output level control; independent L/R power transformer; variable and fixed inputs; heavy-duty speaker terminals; 6.4 x 17.3 x 15.7 in. .... \$949

## SONOGRAPHIE BY CONRAD-JOHNSON

### SC1 FET Preamp

All-FET preamp with matched-FET polypropylene and polystyrene capacitors for all audio circuits; discrete power-supply regulation; inputs for phono, tuner, CD, video, tape 1 and 2. Frequency response 5-100,000 Hz  $\pm$  0.5 dB; max output 10 V; total harmonic distortion 0.1%; IMD 0.1%; phono overload 150 mV; 3.5 x 18 x 12-in. .... \$595

## SONY

### TA-E77ESD Preamplifier

Preamplifier with built-in 16-bit, linear digital-to-analog converter with quadruple-oversampling digital filter. Features automatic matching of sampling rate; audio/video switching capability; S-video inputs and outputs; source direct switch; 12 total input sources; passive tone control circuitry; record out selector; adaptor terminals; 3-mode cartridge selector. IMD 0.001%; total harmonic distortion 0.001%; separation >90 dB; FR 5-20,000 Hz  $\pm$  0.5 dB \$1,200

## SPECTRASCAN

### LCA-10 Preamplifier

High gain, high voltage input buffer-amplifier eliminates cartridge interaction. Low noise MC head amp; input for MM, CD, video, tuner, tape 1 & 2, 2 sets of outputs. Frequency response 3-250,000 Hz; total harmonic distortion line amp .05%; IMD.05%; signal-to-noise ratio 100 dB; sens 100 mV for 1.0 V output; 3.75 x 19 x 9.5-in; 17 lb. .... \$1,345

## SUMO

### Athena Preamplifier

Stereo preamp with built-in moving-coil head amp. Features discrete circuitry utilizing 1% metal film resistors and metalized polypropylene capacitors; gold-plated input/output jacks; separate record/mode select functions; linear-phase-matrix subsonic filter; high-level bypass; laser-trimmed stepped volume control. FR 20-20,000 Hz  $\pm$  0.1 dB; crossover 80 dB; THD/IM <0.01% below 10 V output ..... \$699

## SUPERPHON

### Revelation II Preamplifier

Features 2 tape and processor loops; max output 5 V; 150 mV MM phono overload; MM phono input impedance 47K ohms ..... \$699

### C.D. Maxx Preamplifier

Features 1 tape and processor loop; max output 3 V ..... \$329

## TANDBERG

### TCA 3018 Control Preamplifier

Preamplifier with zero-negative-feedback design. All high-level inputs have overload rating of 20 V; toroidal transformer with separate winding for each ch; separate power supply for each ch; selected metal-film resistors and polypropylene capacitors; no tone controls; separate record and program selection. 17.13 x 3.25 x 13.75 in; 12.5 lb ..... \$2,500

### TCA 3038A Control Preamplifier

Fully remote controlled unit similar to above. Servo controlled volume (when used with remote); tone controls; tone defeat; loudness; MM and MC; DAT, CD, video, and tape inputs. Remote optional. Rosewood panels; 17.13 x 3.25 x 13.75 in; 11 lb. .... \$1,350

## TECHNICS

### SU-A200 Class AA Preamplifier

Features Class AA circuitry to separate voltage amplification from current amplification. Voltage amp operates in Class A driving Class AA bridge circuit which provides ideal load characteristics for max linearity and isolation from imp fluctuations. Class AA EQ circuit isolates voltage amp from load-imp fluctuations. Active Servo power supply. Switches video signals form A/V inputs as well as audio signals from 8 inputs with video output for monitor. Inputs for MM phono; MC phono; tape; tape 2/VCR; aux; phono 2; CD player; tuner; video (AV 1). FR 0.5-180,000 Hz +0,  $\pm$  3 dB. 17 x 5 x 14.25 in; 20 lb \$1,250

### SU-A4MK2 Stereo DC Preamplifier

Features amorphous step-up transformer for extended linear response; full-matching phono equalizer for all types of cartridges; all Class A with IC1, ultra-low-noise FET input; low output imp allows remote power amp placement; shelving tone controls for EQ; presettable CD/aux/video input selector; 4-ganged master volume control; infrasonic and high filter switches; loudness switch; separate rec selector with two-way dubbing; two tape monitors. Maximum output voltage rated at 8 volts; 16.94 x 3.81 x 14.19 inches; 17.6 pounds ..... \$1,190

### SU-A6MK2 Stereo DC Preamplifier

Features shelving tone controls, selectable turnover frequencies, infrasonic filter, audio muting. Inputs



# More For My Money

I'd always thought you needed big speakers to get good sound. So every couple of years, some department store would have a sale and I would buy the biggest speakers I could find for the money. Then I moved across the country to take a new job. I left my old speakers behind. I was sure they wouldn't fit in my new apartment and I was ready for new ones anyway.

After the move, I went shopping for new speakers at a specialty hi-fi store near my apartment. I told the salesman to show me something under \$500. He took me into a room full of all kinds and sizes of speakers.

The first speakers he demonstrated were fantastic. The bass was big and tight. The stereo image was beautiful. Surely it was the biggest pair in the room.

"I don't have the room for those big speakers," I said. "And besides, I'm sure I can't afford them."

He stopped the demonstration to show me a KLIPSCH® kg<sup>2</sup>, a compact and elegant model. "Yeah, this is more my size," I said, "let's hear a pair of these."

"You just did," he said.

I bought those kg<sup>2</sup>s. I paid a lot less than I had planned. And, believe me, I got a lot more for my money.

---

For your nearest KLIPSCH dealer, look in the Yellow Pages or call toll free, 1-800-223-3527.



A LEGEND IN SOUND.™

P.O. BOX 688 • HOPE, ARKANSAS USA 71801

CIRCLE NO. 74 ON READER SERVICE CARD

# PREAMPLIFIERS

for MM phono, MC phono, tape 3, tape 2, aux 2, phono 2, CD player, tuner, computer, VCR, DAT recorder, TV. Max output 8 V; 16.94 x 3.88 x 14.19 in. . . . . \$875

## THRESHOLD

### Model FET ten/hl Control Preamplifier

Dual-ch, high-level noninverting field-effect transistor preamp dedicated specifically to line-level signal applications. Accepts 5 high-level sources and 2 tape decks with full flexibility in record/monitor signal routing. External power supply in separate chassis. Input J-FETs operated in parallel, doubling transconductance and lowering noise and distortion. Secondary gain stages use cascaded MOSFETs to suppress voltage fluctuations, allowing low distortion even when driving loads less than 500 ohms. Circuit boards are military-grade glass-epoxy with gold-over-nickel-over-copper-plated paths. Gold-plated connectors with Teflon insulation. Precision metal film and wirewound resistors are used throughout. Bandwidth response 1.5 Hz and 125,000 Hz at -3 dB points; distortion 0.01% at 3 V rms from 20-20,000 Hz into 1,000-ohm load; crosstalk no greater than -75 dB at 20,000 Hz with 1,000-ohm source; noise no greater than -110 dBA referenced to 1 V input; input imp 25,000 ohms, nominal; output imp 100 ohms. Controls for program source selector; record signal routing; monitor signal selection; mode selector; balance control; audio level control. 1.75 x 19 x 6.5 in. . . . . \$2,000

### Model FET nine Preamplifier

Dual-ch noninverting field-effect transistor preamp. Accepts inputs from high- and low-level MC, MM or other velocity-output characteristic phono cartridge, 3 high-level sources, and 2 tape decks with full flexibility in record/monitor signal routing. Cartridge section uses single gain-variable preamplification stage for MC and MM cartridges. Cartridge loading selected by internal DIP switch assemblies. Signal-path topologies and power-regulation circuits derived from FET ten research. External power supply in separate chassis. Circuit boards are military-grade

glass-epoxy with gold-over-nickel-over-copper-plated paths. Gold-plated connectors with Teflon insulation. Precision metal film and wirewound resistors are used throughout. FR bandwidth 1.5 Hz and 125,000 Hz at -3 dB points; distortion 0.01% at 3 V rms from 20-20,000 Hz into 10,000-ohm load; high-level input imp 25,000 ohms, nominal; output imp 100 ohms. Controls for program source selector; record signal routing; monitor signal selection; independent channel balance control; audio level control. 1.75 x 19 x 6.5 in. . . . . \$1,750

### FET ten/pc Phono-Cartridge Preamp

Dual-ch noninverting field-effect transistor preamp dedicated specifically to phono-cartridge gain applications. Accepts inputs from high- and low-level MC, MM or other velocity-output characteristic phono cartridge and provides RIAA equalized output suitable for preamp high-level inputs. Single gain-variable high-performance stage provides signal increase required by different cartridge types. Combination of active low-frequency and active and passive high-frequency equalization make up RIAA equalization. Up to 16 different cartridge-loading characteristics may be user selected with internal DIP switch assemblies. External power supply in separate chassis. Circuit boards are military-grade glass-epoxy with gold-over-nickel-over-copper-plated paths. Gold-plated connectors with Teflon insulation. Precision metal film and wirewound resistors are used throughout. Crosstalk no greater than -70 dB at 20,000 Hz with 1,000-ohm source; output impedance 420 ohms. 1.75 x 19 x 6.5 in. . . . . \$1,200

## WINGATE AUDIO

### 1000 Audio/Video/Digital Preamp

Same performance as 550 except: 30 V output with < 0.02% total harmonic distortion; IMD < 0.02%; MM phono overload 400 mV; moving magnetic phono signal-to-noise ratio > 105 dB; moving cartridge phono signal-to-noise ratio > 85 dB; separate audio, video, and digital switching; dual-mono construction; dual independent power supplies; dual chassis; switch-selectable phase polarity . . . . . \$2,900

### 990 Audio/Video/Preamp

Same performance as the 550 plus separate audio and video switching; remote control . . . . . \$1,995

### 660 Audio/Video Preamplifier

Same performance as the 550 plus separate audio and video switching. . . . . \$1,695

### 550 Audio Preamplifier

100% FET; no negative feedback; MOSFET regulated power; toroidal power transformer; ultra-wide bandwidth; 20 V output with no more than 0.05% total harmonic distortion; frequency response 0.1-250,000 Hz +0, -3 dB; intermodulation distortion < 0.05%; MM phono overload 400 mV; MM phono signal-to-noise ratio > 100 dB; MC phono signal-to-noise ratio 80 dB; selectable phono input impedance . . . \$1,395

## YAMAHA

### CX-10000 Digital Preamplifier

Limited Centennial Edition digital control amplifier with built-in digital sound field processor and D/A converter. Features hi-bit quadruple oversampling; hi-bit precision D/A conversion; digital-direct connection; digital input/output port; digital parametric equalizer; 16 user-memory programs combining digital sound field and/or digital parametric equalizer; wireless remote control. Titanium grey with high luster walnut end panels; 65 lb . . . . . \$7,500

### HX-10000 Phono Head Amplifier

Limited Centennial Edition phono head amplifier. Features two independent moving-coil head amplifiers (selectable for phono 1 and phono 2). Titanium gray cabinet with high luster, hand-rubbed walnut end panels; 20 pounds . . . . . \$2,500

### CX-1000U Digital Preamplifier

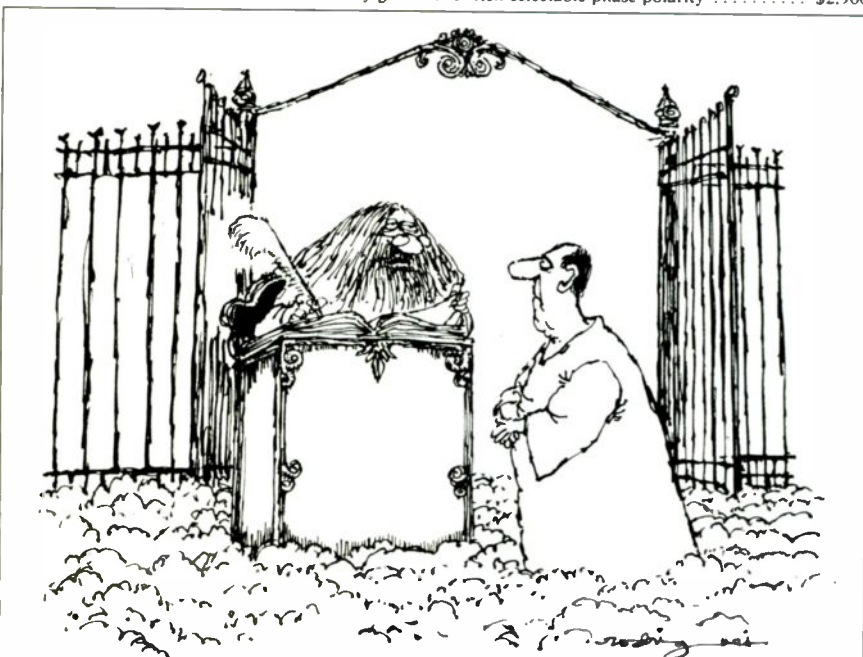
Digital preamplifier with built-in hi-bit 8-times-oversampling digital filter. Features hi-bit twin D/A converters; 4 digital (4 coaxial, 3 optical) audio inputs and 4 video inputs; continuously variable loudness control; 5 audio record outputs and 2 video record outputs; 12-position record out selector; provisions for simultaneous audio and video recording on two VCR's; 1 optical, 2 coaxial digital audio record outputs; automatic sampling frequency switching; 6-position moving magnet or moving coil phono cartridge load selector; source direct switch; audio mute; remote control . . . . . \$1,199

### CX-800U Preamplifier

Preamplifier with 8 audio and 3 video inputs. Features 4 audio and 2 video record outputs; 9-position record out selector; provision for simultaneous audio/video recording on two VCR's source direct switch; phase invert switch; continuously variable loudness control; 6-position MM and MC cartridge load selector; bass and treble controls; subsonic filter for frequencies below 30 Hz; remote control. . . . . \$699

### CX-600U Preamplifier

Preamplifier with 6 audio and 2 video inputs. Features 2 audio and 1 video record output; 6-position record out selector; source direct switch; continuously variable loudness control; MM and MC cartridge switch; bass, treble, and midrange controls; subsonic filter for frequencies below 30 Hz; remote control. . . . . \$449



"... So you're Joseph Paul Carruthers and you were president of Audivex speakers. You made many claims for your speakers. Tell me, Joseph, what is 'flux impulse driver'? And 'no-lag midrange crossover'? What about 'vectored ubiquitous maxi-woofer,' what is that, Joseph?"

The listings are based on data provided by the manufacturers. For more product information, contact an authorized dealer or the manufacturer directly. Manufacturers' addresses and phone numbers are listed in the directory beginning on page 217.





## Mastery. Reliability. Convenience.

*A new hybrid from Audio Research  
leads the way in amplifier technology.*

### The Hybrid Lineage

Audio Research has been a leader in developing innovative hybrid audio circuits combining the linearity and harmonic accuracy of vacuum tubes with the low noise and long service life of field-effect transistors.

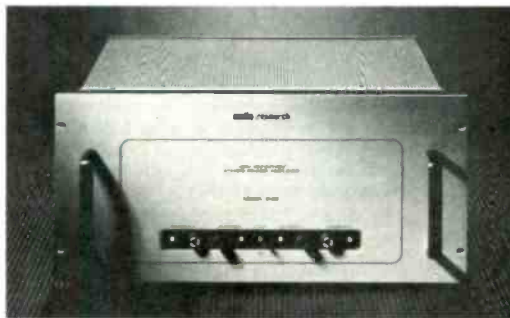
You'll hear that lineage in the D125's ability to produce musical dynamics with palpable authority, and low-level information with a transparency and lack of grain that mimics reality. Given a first-class program source, the D125 brings to the soundstage a three-dimensionality and precision unique in this price range.

### Unparalleled Convenience and Reliability

The D125 was also designed to provide day-to-day reliability and convenience.

Sophisticated protection circuitry assures that potentially damaging input signals won't stress the eight 6550 output tubes.

Routine maintenance couldn't be easier. Tube balancing is controlled automatically, while Plate Current Controls allow the owner to keep performance optimized as tubes age. Even when output tubes are replaced, the D125 won't need to be returned to the dealer for rebiasing.



The D125 Stereo Amplifier

By occasionally checking the Low Current Monitor LEDs on the back of the main circuit board, the owner can determine whether individual tubes need replacing, and do it himself. Quickly, economically.

The D125 allows a wider range of installation options, too. Music lovers who are looking to reduce the visual impact of their amplification can tuck the D125 out of sight in a cabinet or closet, thanks

to its moderate dimensions and quietly efficient fans.

### 20 Years of Quality

Of course, the quality of components and construction is as you would expect in a component from Audio Research. And D125 owners can rest assured their amplifier will have parts and service support for as long as they own it. That's a commitment to customers Audio Research has upheld for 20 years.

Audition the D125 at your Audio Research dealer soon.

HIGH DEFINITION® MUSIC REPRODUCTION

CIRCLE NO. 65 ON READER SERVICE CARD



# INTEGRATED AMPLIFIERS



## ACCUPHASE BY MADRIGAL

### E-302X 150-W/ch Integrated Amp

Power meters; 3-position loudness compensation; inputs for MM phono, MC phono, tuner, tape, tape 2, AUX, phono 2, CD player, line 2. 150 W/ch into 8 ohms; 250 W/ch into 2 ohms; MM phono sens 0.22 mV for 0.5 V output at 1,000 Hz; sens for line-level inputs 13.9 mV; 45.2 lb; 17.5 x 6.4 x 14.6 in \$3,500

### E-302 120-W/ch Integrated Amp

3-position loudness compensation and power meters. Inputs for MM phono; MC phono; tape; tape 2; phono 2; CD player; 3 line inputs. S/N 120 dB; MM phono sens 0.22 mV for 0.5 V output at 1,000 Hz; sens for line-level inputs 7.1 mV; 120 W/ch into 8 ohms; 180 W/ch into 4 ohms; 35.6 lb; 17.5 x 5.75 x 14.6 in. \$2,750

### E-205 80-W/ch Integrated Amp

Parallel push-pull output stage driven by MOSFET driver stage; large power supply; direct-coupled circuitry with DC servo; high-gain equalizer; MC-input imp selector; 9 inputs; turnover selector switch; tape monitor and dubbing switches; subsonic filter; outputs for 2 pairs of speakers; speaker selection switch; mono switch. Inputs for MM phono; MC phono; tape; tape 2; CD player; tuner; 3 line-level inputs. Champagne-gold or black-anodized finish. 80 W/ch into 8 ohms. 100 W/ch into 4 ohms. 17.5 x 5.75 x 14.56 in; 30.8 lb. \$1,700

## AUDIO DYNAMICS

### CA-2000E Integrated Amplifier

100-W/ch integrated amplifier. Features CD-direct switch; infrasonic filter; CD, tuner, AUX, and 2 tape inputs; two phono preamps; separate low-noise class-A moving coil preamp; dubbing capability; separate power-supply regulators; CD and phono jacks are gold-plated; wireless universal remote control for Audio Dynamics products. \$799

## AUDIO DESIGN ASSOCIATES

### MRA-808 Multiroom Amp Mainframe

Contains 8 integrated amplifier modules. Each module features digitally controlled volume, bass and treble. 40 W/ch continuous from 20-20,000 Hz into 8 ohms with no more than 0.03% THD; 60 W/ch into 4 ohms; slew rate 10 V/μsec; IMD 0.02%; 50 lb; 19 x 12.5 x 14.5 in \$9,927

### DCA-40 Digital Control Amplifier

Integrated amp with inputs for MM phono, tape, tape 2, AUX, CD player, tuner. Features electronic digital volume control; separate phono preamp. 40 continuous average W/ch from 20-20,000 Hz with no more than 0.06% THD into 8 ohms; 50 W into 4 ohms; FR 20-20,000 Hz ± 3 dB; THD 0.06%. 6 lbs. 19 x 3.5 x 12 in. \$950

### a/d/s/

### Atelier A2 80-W/ch Amplifier

Stereo integrated amp with separate input selectors for recording and listening. Features 2 tape monitor loops; phono preamps for MM and MC cartridges; preamp output and main amp input jacks; LED displays; clipping indicators; power output 100 W/ch

into 4 ohms, 80 W/ch into 8 ohms, 70 W/ch into 2 ohms. 2.8 x 17.5 x 14.8-in; 20 lbs. \$699

## AKAI

### AM-93-B 120-W/ch Integrated Amplifier

Features 120 W/ch with zero drive DC-servo main amp; 4-digital direct inputs (2 optical for CD/DAT); dual D/A converter; 18-bit processing; 8-times oversampling; digital filter; source direct mode; 11-position input selector; low-noise MM/MC phono EQ amp; 0.008% THD resonance free rigid chassis structure \$1,099

### AM-73-B 100-W/ch Integrated Amplifier

Features 100 W/ch with zero drive DC-servo main amp; 4-digital direct inputs (1 optical for CD/DAT); dual D/A converter; 4-times oversampling; digital filter; source direct mode; 11-position input selector (3 tape monitor); 0.008% THD; resonance free rigid chassis structure \$799

### AM-52-B 70-W/ch Integrated Amplifier

Features 70 W/ch with dual-pole DC-servo; source-director switch; low-noise MM/MC phono EQ amp; 7-position input selector (2 tape monitor); speaker A/B selector w/large binding posts; 0.005% THD; processor terminals for EQ \$399

### AM-32-B 50-W/ch Integrated Amplifier

Amplifier with dual-pole DC-servo delivers 50-W/ch. Features source direct mode switch; low-noise moving magnet/moving coil phone EQ amp; 7-position input selector (2 tape monitor); speaker A/B selector with large binding posts; 0.005% total harmonic distortion processor terminals for EQ \$349

## ARCAM

### Arcam Delta 90 Integrated Amplifier

Amplifier with toroidal power transformer delivers 70-W/ch into 8 ohms. Features inputs for MM/MC cartridges, tuner, CD and two-tape recorders; bypassable limited range tone controls; mono switch; two loudspeaker outputs; THD 0.02% at 60 W; FR 40-20,000 Hz -3 dB. 16.93 x 10.43 x 3.54 in. \$749

### Arcam Alpha+ Integrated Amplifier

Amplifier with toroidal power transformer delivers 30-W/ch into 8 ohms. Features 5 inputs; sensible tone controls; headphone socket with loudspeaker mute; THD 0.02% at 25 W; FR 60-20,000 Hz -3 dB. 15.75 x 9.1 x 3.74 in. \$299

### A60+ Integrated Amplifier

Amplifier with 40-W/ch into 8 ohms features four inputs including one dedicated to CD; optional MC60 plug-in preamplifier board; two tape outputs; switchable hi filter and mono functions; sensible tone controls; headphone socket with loudspeaker mute; total harmonic distortion 0.03% at 35 W. 17.72 x 9.45 x 2.36 in. \$399

### Arcam Delta 60 Integrated Amplifier

Purist integrated amplifier with 50-W/ch into 8 ohms; 20-20,000 Hz; inputs for MM/MC, straight-wire passive preamp section into a high gain power amplifier; tuner, CD mono/stereo switch; speaker 1 and 2; THD 0.02% slew rate 25; sens 120 μV; Delta Box converter. \$599

## AUDIO BY VAN ALSTINE

### CA-150 Plus Integrated Amplifier

Features Van Alstine Fet Three Plus hybrid preamplifier circuitry; 240D full complementary power MOSFET amp circuits driven from high-current toroidal power transformer and 2-stage power supply with isolated regulated preamp sections; precision tracking volume control and balance control; phono, CD, and tuner inputs; dual tape-to-tape monitoring and dubbing capability; drives two pairs of speakers simultaneously or separately; headphone jack; 75 W/ch into 8 ohms with less than 0.01% THD. 13.5 x 12.5 x 4.5 in; 15 lb. \$750

## CAMBRIDGE AUDIO

### P55 Intergrated Amplifier

Features passive segmented equalization on MMandMCinputs. Power output is 70 W/ch into 8 ohms, tone on/off control. THD 0.05%. \$648

### P40 Integrated Amplifier

Features passive segmented phono section; MC/MM switchable inputs; large toroidal input transformer; 40 W/ch; THD 0.05%; S/N MM 80 dB, MC 73 dB, line 80 dB. 2.5 x 17.5 x 11 in.; 17 lb. \$498

## CREEK AUDIO BY MUSIC HALL

### 5050 Integrated Amplifier

50-80 W/ch. Multi-function with MM and MC, video, CD, tuner, 2 tape to tape in and outs, tape monitor, tape to tape dubbing, active/passive tone controls, pre-amp out, power amp in, 4 speaker switching (A, A & B, B). Amp also bridgeable to mono unit to provide 2 mono amps, 100 W/ch. \$950

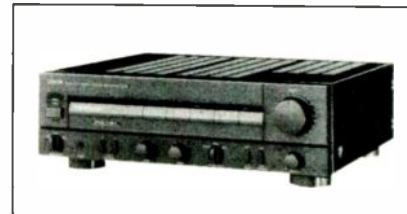
### 4040/S2 40-W/ch Integrated Amplifier

Inputs for MM phono, CD, tuner, tape in and out. Designed for extreme clarity and warmth. 40 W/ch into 8 ohms. \$425  
4140/S2. Similar to above but with 45-65 W/ch; MC switch; increased sens and gain. \$525

## DENON

### PMA-1520 Integrated Amplifier

130 W/ch integrated amplifier. Features Denon Optical Class A circuitry. Digital multi-interface decoder; 7 audio inputs phono AUX1,2, CD, tuner, tape 1, 2, 3 way speaker terminals; CD direct; THD.003% -3dB at rated output; IMD.003%; FR1-250,000 Hz -3 db at 1W; S/N120 dB; 6.37 x 17.08 x 15.43-in; 29 lb. \$1,000  
PMA-920. Similar to the PMA-1520 above except with 115 W/ch. \$600  
PMA-720. 90 W/ch. \$450



PMA-520. 70 W/ch. \$350



# INTEGRATED AMPLIFIERS

## PMA-250 Integrated Amplifier

Features high-speed power transistors; simple and straight signal path; CD-direct switch; inputs for phono, CD, tuner, AUX, tape monitor; dual-concentric volume controls; headphone jack; large speaker terminals for audiophile quality connections. 25 W/ch min rms into 8 ohms from 20-20,000 Hz with no more than 0.08% THD; dynamic power 52 W/ch into 8 ohms; IMD 0.03% . . . . . \$200

## DUAL BY ORTOFON

### PA5060 Integrated Amplifier

60 watt/ch integrated amplifier with high current output capability and MC phono input. Black . \$380

### PA5030 Integrated Amplifier

30 watt/ch integrated amplifier with high current output capability and MC phono input. Black . \$280

## ELECTROCOMPANET BY MUSIC AND SOUND IMPORTS

### AW100 Integrated Amplifier

Integrated Amp features 100 W/ch into 8 ohms; 180 W/ch into 4 ohms; FR 0-100,000 Hz; THD 0.003%; 30 lb. . . . . \$1,495

## HITACHI

### HA-007SW 65-W/ch Integrated Amp

Drives 2 pairs of speakers; inputs for 2 video sources, phono, CD, tuner, videodisc player, tape; bass and treble controls; balance control; loudness control; subsonic filter; Pure Drive Circuit; MOSFET's; rosewood end caps. 65 W/ch into 8 ohms; damping factor 60 at 1,000 Hz; 19 lb. . . . . \$400

## HARMAN KARDON

### PM665 Vxi 150-W/ch Integrated Amplifier

Inputs for A/V, aux, tuner, CD player, phono (MM or MC); VCR/tape monitor switches 2 decks and source; drives 2 pairs of speakers; selectable turnover frequencies (bass 200 or 400 Hz, treble 2,000 or 6,000); tone defeat; mono switch; capacitance trim (normal, +100, 200, 300 pF); phase-correct loudness; high and low filters; 2-way tape dubbing; lit mute button (20 dB down); preamp out and main in jacks; active/passive phono section; 2 power transformers; 8 150-W power transistors. 150 W/ch into 8 ohms; dynamic power 500 W; current capability  $\pm$ 80 amps . . . . . \$999

PM655 Vxi. As above, 90 W/ch; current capability  $\pm$ 45 amps for 260 W on peaks . . . . . \$699

PM645 Vxi. As above, 90 W/ch; current capability  $\pm$ 30 amps; external processor loop instead of preamp out/main in jacks . . . . . \$479

PM640 Vxi. As above, 45 W/ch; current capability  $\pm$ 18 amps; neg feedback 20 dB; no low or high filter. . . . . \$329

## JVC

### AX1100BK Integrated Amplifier

Features Pure Signal Transceiving; separate CD ground; separate CD input with differential input; Dynamic Super-A power amp; Gm selector; Gm volume; 2-amp construction; inputs include CD 1, CD 2, DAT, and 5 others; high-gain phono equalizer for MC/MM cartridges; connections for two pairs of speakers. 120 W/ch into 8 ohms from 20-20,000 Hz with no more than 0.003% THD . . . . . \$720

## KENWOOD

### KA-3300D 150-W/ch Integrated Amplifier

Basic series digital integrated amplifier with dual built-in 16-bit D/A converters. Features optical interface with DP-3300 CD player; VIG-DLD (Voltage Interface Gate with Dynamic Linear Drive) power amplifier; quadruple oversampling digital filters; 7-pole Butterworth FDNR analog low-pass filters; 3

sampling frequencies (48/44.1/32 kHz); coaxial digital input; 3 tape inputs; dual rec-out selector; 2-way dubbing; digital-direct and line-straight switches; dual MM/MC phono equalizer amplifiers; Kenwood NF-CR tone controls with selectable turnover; high-rigidity chassis; audio insulator feet; Sigma Drive Type B; variable loudness; subsonic filter; mono/stereo switch; volume control; gold-plated input jacks; 150 W/ch min rms; THD 0.004%; S/N 110 dB. 6.69 x 17.31 x 16.56 in; 39.2 lb. . . . . \$1,199

### KA-880D 100-W/ch Integrated Amplifier

Basic series integrated amplifier with VIG-DLD power amplifier. Features low-impedance drive capability; independent CD input; CD-direct and line-straight switches; 3 tape inputs; dual rec-out selector; 2-way dubbing with monitor switch; MM/MC cartridge selector with NFB loop equalizer amplifier; Kenwood NF-CR bass and treble controls; Sigma Drive Type B; -30 dB muting; loudness switch; subsonic filter; mono/stereo switch; 2 speaker systems operation; 100 W/ch min rms; THD 0.008%; S/N 108 dB. 5.69 x 17.31 x 13.5 in; 22 lb. . . . . \$410

### KA-770D 80-W/ch Integrated Amplifier

Basic series integrated amplifier with DLD power amplifier. Features low-impedance drive capability; independent CD input; CD-direct and line-straight switches; 3 tape inputs; dual rec-out selector; 2-way dubbing with monitor switch; MM/MC cartridge selector with NFB loop equalizer amplifier; Kenwood NF-CR bass and treble controls; -30 dB muting; loudness switch; subsonic filter; mono/stereo switch; 2 speaker systems operation; 80 W/ch min rms; THD 0.008%; S/N 108 dB. 5.69 x 17.31 x 13.5 in; 20.24 lb. . . . . \$360

### KA-76 100-W/ch Integrated Amplifier

Features 7-band graphic equalizer; dual-range LED power meters; CD/AUX input; 2 tape inputs with 2-way tape dubbing and monitor; equalizer recording switch; loudness switch; muting; A/B speaker selector; headphone jack; 100 W/ch min rms; THD 0.05%; S/N 100 dB. 4.31 x 16.56 x 10.88 in; 14.7 lb. . . \$300

### KA-127 125-W/ch Integrated Amplifier

Features 7-band graphic equalizer and power meters; 125 W/ch min rms; CD/AUX input; motorized volume control; unified full remote control system; auto-function; bi-directional tape dubbing; dual video sound inputs; connections and switching for two pairs of speakers; full circuit protection; headphone jack; THD 0.05%; IMD 0.03%; FR 10-70,000 Hz  $\pm$ 0-1B, -3 dB; S/N ratio 75 dB; 4.68 x 16.56 x 10.68 in; 17.6 lb. . . . . \$369

### KA-87 100-W/ch Integrated Amplifier

Features 7-band graphic equalizer; 100 W/ch min rms; LED power meters; separate CD input; auto-function; bi-directional tape dubbing; dual video sound inputs; connections and switching for two pairs of speakers; full circuit protection; headphone jack; THD 0.05%; IMD 0.03%; FR 10-70,000 Hz; S/N ratio 75 dB; 4.31 x 16.56 x 10.87 in; 15.84 lb. . \$269

### KA-V1000R Integrated Amplifier

80-W/ch, 30-W/ch for rear. 6 video and audio inputs; full-function wireless remote control additional learning 58 functions programmable; 16-bit digital delay; four mode surround sound including Dolby; 3 independent rec selectors; super VHS and BETA input; built-in sharpness and detail enhancer; on-screen data display; motor-driven rotary volume control. . . . . \$875

## KYOCERA

### A-910 150-W/ch Integrated Amplifier

Ceramic base/chassis; cutless-core power transformer; DC configuration with DC servo control; fine-ceramic linear modularized phono stages. Inputs for MM phono, MC phono, tape, tape 2, AUX, phono 2, CD player, tuner, video. FR 10-100,000 Hz  $\pm$ 1.5 dB;

max output 0.25 V at rated sens; S/N 96 dB; MM phono sens 2.2 mV for 0.5 V output at 1,000 Hz; sens for line-level inputs 250 mV; 150 continuous average W/ch from 20-20,000 Hz with no  $>$ 0.02% THD into 8 ohms; dynamic headroom 1.2 dB; slew rate 90 V/ $\mu$ s; 200 W/ch into 4 ohms with 0.05% THD; damping factor 150 (1 kHz); S/N 78 dB. 17 x 5.75 x 16.5 in. . . . . \$1,500

## LUXMAN

### LV-109 Digital Direct Integrated Amplifier

Integrated amplifier with built-in D/A converter. Features digital interaction with Luxman D-109 CD player; 2 digital direct inputs; line straight switch; front panel video input jack; signal-processor switch; rec-out dubbing selectors; sampling frequency indicator; tape/video monitor selector; mono/stereo switch; -30 dB attenuator switch; bass/treble controls. 150 W/ch; total harmonic distortion/intermodulation distortion  $<$ 0.09%; frequency response 5-200,000 Hz -3 dB; signal-to-noise ration (line straight) (CD)/line, tape  $>$ 110 dB; 17.25 x 6.56 x 18.13 in; 44 lb. . . . . \$1,500

### LV-105U Integrated Amplifier

Features BRID (hybrid) and STAR circuitry; Duo-Beta; voltage-driven amplification; tape and video dubbing; front-panel inputs (A/V 2, audio-video); rec-out selector; video amp and switching capability. Inputs for MM phono; MC phono; tape; tape 2; A/V; A/V 2; CD player; tuner. 80 continuous average W/ch from 20-20,000 Hz into 8 ohms with no more than 0.25% THD; 200-ms dynamic power 200 W at 4 ohms; FR (audio High level inputs) 3.5-300,000 Hz  $\pm$ 3 dB, 20-20,000 Hz  $\pm$ 0.2 dB phono, 10-6 MHz video  $\pm$ 1 dB; S/N 90 dB (MM), 70 dB (MC), 96 dB (tuner, tape, CD, video audio); IMD 0.03%. 17.25 x 5.19 x 13.88 in; 25.3 lb. . . . . \$1,000

### LV-109 Phono Pre-Amp

Designed as companion for LV-109. Features separate MC/MM inputs; variable gain and impedance switches, MC straight circuit; subsonic filter; 3 step attenuator selector. THD 0.005%; FR 20-20,000 Hz  $\pm$ 3 dB; input sens/imp phono 1 (MC straight) 150  $\mu$ V/100 ohms, phono 2 (MM 0 dB) 2.5 mV/47 K ohms, phono 2 (MC/22 dB) 260  $\mu$ V/3,400 ohms, Phono 2 (MC 32 dB) 90  $\mu$ V/3,400 ohms. 17.25 x 2.5 x 12.19 in; 9.9 lb. . . . . \$500

## McINTOSH

### MA-6200 Integrated Amplifier

Features 100 W/ch into 4 ohms, 75 W/ch into 8 ohms, 42 lb. . . . . \$1,795

## MARANTZ

### PM-94G 140-W/ch Integrated Amplifier

140 W/ch integrated amp features Quarter-A design; AVSS (automatic voltage supply shift); matched complementary MOSFET output devices in triple push-pull circuit; CD/phono direct switch; tone defeat switch toroidal power transformer; ceramic damped capacitors; copper-plated chassis; separate monitor/dubbing selectors for 2 tape decks plus VCR; built-in MC step-up transformer; switches for mono mode, subsonic filter, muting, speakers on/off; total harmonic distortion 0.01%; rosegold with rosewood side panels . . . . . \$3,000

PM-94BL. Similar to PM-95G above except with black finish . . . . . \$2,800

### PM-84D 100-W/ch Integrated Amplifier

100 W/ch integrated amp features Quarter-A design; AVSS (automatic voltage supply shift); matched complementary MOSFET output devices; CD/phono direct switch; tone defeat switch; ceramic damped capacitors; copper-plated chassis; separate monitor/dubbing selectors for 2 tape decks plus video cassette recorder; built-in moving coil step-up transformer; mono mode switch; THD 0.015%; . . . . . \$1,360

# INTEGRATED AMPLIFIERS

**PM-74DBI. 105-W/ch Integrated Amplifier**  
105 W/ch black integrated amp features Quarter-A design; AVSS (automatic voltage supply shift); CD/phono direct switch; tone defeat switch; ceramic damped capacitors; copper-plated chassis; separate monitor/dubbing selectors for 2 tape decks; tone defeat; switches for mono mode, subsonic filter, muting, speakers on/off; IMD 0.03%; THD 0.03%. 8.12 x 19.5 x 16.5 in; 23.1 lb. .... \$699

**PM-25BI. 30-W/ch Integrated Amplifier**  
30 W/ch integrated amp features CD/phono direct switch; independent heat sinks; 20-20,000 Hz bandwidth; THD 0.1%; IMD 0.03%. 4.62 x 16.5 x 12 in; 11.7 lb. .... \$299

**PM-65AVBI. 65-W/ch Integrated Amplifier**  
65 W/ch integrated amp features CD/phono direct switch; 3 monitor loops; 4 position record out; video switching; 20-20,000 Hz bandwidth; total harmonic distortion 0.03%; intermodulation distortion 0.03%. 5.37 x 16.37 x 14.37 in; 22 lb. .... \$499

## MISSION ELECTRONICS

**Cyrus II 60 W/ch Integrated Amplifier**  
Integrated amp with high peak current delivery. Non-magnetic, precision fabricated die-cast alloy case and chassis; separate listen and record selectors; inputs for CD, tuner, hi-fi, video, tape recorder, and MM and MC phono cartridges; direct connected, front panel mounted headphone socket without loudspeaker switching; metal film resistors; polypropylene capacitors; polystyrene capacitors; drives any loudspeaker load; fully compatible; FR 20-20,000 Hz; S/N 83 dB; 8.5 x 3 x 13.5 in; 5 kg. .... \$799

**Cyrus I 30 W/ch Integrated Amplifier**  
Integrated amp with high current delivery. Non-magnetic, precision fabricated die-cast alloy case and chassis; separate listen and record selectors; inputs for CD, tuner, hi-fi, video, tape recorder, and both MM and MC phono cartridges; direct connected, front panel mounted headphone socket without loudspeaker switching; close-tolerance metal film resistors, polypropylene capacitors, polystyrene capacitors; fully compatible; 8.5 x 3 x 13.5 inches; 9 pounds. .... \$499

## NAD

**3400 Monitor Series Integrated Amplifier**  
Full remote control; 100 W/ch; power envelope circuitry; +6.2 dB dynamic headroom; bridgeable; lab input; pre-amp out/main in; semi-parametric tone controls; Soft Clipping; bass EQ; rack mountable \$798

**3240 PE Integrated Amplifier**  
40 W/ch; +6 dB dynamic headroom; power envelope circuitry; bass EQ; speaker imp selector; high current; Soft Clipping. .... \$398

**3225PE Integrated Amplifier**  
25 W/ch; power envelope circuitry; 85 W IHF dynamic power; +4 dB dynamic headroom; Soft Clipping; discrete 4 transistor phono pre-amp; pre-amp out/main amp. .... \$248

## NEC

**A-910 Integrated Amplifier**  
Features unified remote control that can operate other NEC audio and video components; inputs for MM/MC phono, tuner, CD player, tape deck, AUX, TV and VCR sound sources; independent record and input selectors for listening to one source while recording another; mute switch; bass and treble controls; bipolar power supply for video output to keep degradation of video signal to a minimum. 100 W/ch into 8 ohms from 20-20,000 Hz with 0.006% THD, 130 W/ch into 4 ohms; dynamic headroom 2 dB; frequency response 10-40,000 Hz  $\pm$  1 dB. 17 x 5.1 x 13.4 in. .... \$649

**AV-360 Integrated Amplifier**  
Remote-controlled integrated amp with built-in Dolby, hall, matrix, and synthetic stereo surround-sound processors. Features image enhancer; surround indicator; 30 watts per channel into each of 4 channels in normal mode. .... \$649

**AV-350 Integrated Amplifier**  
Remote-controlled integrated amp with built-in Dolby, hall, and matrix surround-sound processors. Features 16-bit digital delay; simulated stereo from mono sources; 3 volume/balance presets; video image enhancer; separate front and rear tone controls; a master volume control; front/rear volume control; front-left, front-right, rear-left, and rear-right volume controls; 4 built-in amplifiers that can be bridged into 2. Inputs for 2 audio and 4 video sound sources. 30 W/ch x 4 ch, 60 W/ch bridged. 17 x 4.3 x 13.4 in; 21 lb. .... \$579

**AV-330 Integrated Amplifier**  
Integrated amp with 24-key infrared wireless remote control. Features built-in Dolby, hall, and synthetic stereo surround-sound effects; digital delay circuit; 4 amplifiers; 30 watts per channel for front speakers, 15 watts per channel for rear speakers; 3 memory presets; visual channel balance display; input levels and balance controls; audio/video input/output array; high-cut filter; bass-emphasis switch; headphone output. .... \$499

**A-610 Integrated Amplifier**  
Features unified remote control that can operate other NEC audio and video components; inputs for MM/MC phono, tuner, CD player, tape deck, AUX, TV and VCR sound sources; independent record and input selectors for listening to one source while recording another; mute switch; bass and treble controls. 60 W/ch into 8 ohms from 20-20,000 Hz with 0.006% THD, 80 W/ch into 4 ohms; dynamic headroom 2 dB; FR 10-40,000 Hz  $\pm$  1 dB. 17 x 5.1 x 13.4 in. .... \$469

**AVA-505 Integrated Amplifier**  
Integrated amplifier designed for dynamic surround-sound and Dolby Pro-Logic. Features 3- or 5-channel amplification; high dynamic power (222 W total); all IC construction; separate volume controls for front, surround, and center; built-in speaker protection relay. 5-channel amplification: 30 W x 4 and 60 W x 1 (center). 3-channel BTL-mode amplification: 60 W x 3. 0.03% THD; S/N 90 dB. 17 x 4.3 x 13.4 in; 20.3 lb. .... \$449

**AV-260 Integrated Amplifier**  
Remote-controlled integrated amplifier with built-in Dolby, hall, and matrix surround-sound effects.



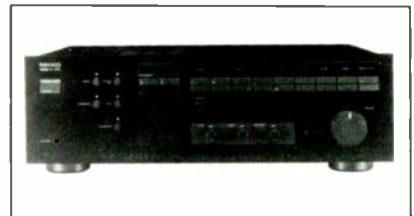
Features 3 memory presets; separate left and right input level controls; audio and video input/output array; 30 W/ch. .... \$349

## Renaissance Series

**PLA-610 Integrated Amplifier**  
Remote-controlled integrated amp with built-in Dolby Pro-Logic, hall, matrix, and concert surround-sound processors. Features 16-bit digital delay circuit; 3-position sound memory function; pre-out, main-in, and monaural-out terminals; 2 audio/video inputs/outputs; 2 audio/video inputs; 1 audio input/output; 1 audio input; 1 center out; 2 monitor outputs; 1 monaural output. .... \$599

## NIKKO AUDIO

**IA-600 Integrated Amplifier**  
Integrated amp with 120 W/ch FTC into 8 ohms. Features 1.76 dB headroom; 5-60,000 Hz power bandwidth; 10 inputs for CD, tuner, phono, aux, tape



1 & 2, video 1 & 2, signal processor, CD direct; permits any source to be routed to all 4-outputs and allows listening to one source while recording another; RCA connectors for pre-out and main-in; MM or MC selectors, 20 dB muting; subsonic filter; stereo/mono switch; bass, treble and balance knobs are back lit; THD .003% dB; FR 5-100,000 Hz. .... \$660  
**IA-400.** Similar to IA-600 but 80 W/ch FTC at 8 ohms; power bandwidth 10-70 kHz. .... \$530

## ONIX AUDIO BY MUSIC HALL

**OA21 50-W/ch Integrated Amplifier**  
Inputs for MM or MC phono, tape, CD player, tuner; 300 VA toroidal input transformer; 20,000  $\mu$ farad capacitors; MM or MC board. 50 W/ch into 8 ohms; FR 15-40,000  $\pm$  3 dB; 15 x 3 x 9 in; 11 lb. .... \$775

**OA20 35-W/ch Integrated Amplifier**  
Inputs for MM, CD player, tuner, and tape. 35 W/ch. .... \$375

## ONKYO

**Grand Integra A-G10 Integrated Amplifier**  
Features linear 18-bit D/A converter; 150 W/ch rms; dual mono design with real phase power supplies; Opto-Drive power supply for differential amp; 8-times-oversampling digital filter; separate left and right Opto-Drive D/A converters; opto-coupling; optical and coaxial digital outputs; absolute analog phase reversal; source direct mode; remote control; wood sidepanels. .... \$1,100

**A-8800 Integrated Amplifier**  
Features linear 18-bit DA converter; 100 W/ch rms; low-imp drive discrete output section; Opto-Drive power supply for differential amplifier; quadruple-oversampling digital filter; separate left and right Opto-Drive D/A converters; optical and coaxial digital inputs; pre-out/main-in terminals. .... \$900

**A-8190 Integrated Amplifier**  
Features real-phase power supply; full audio and video input switching; 6 audio and 2 video inputs including MM/MC phono; direct CD input with gold-plated terminals; direct tone control with contrabass; pre-out terminals; dubbing capability; heavy-duty speaker terminals. 100 W/ch min rms into 8 ohms from 20-20,000 Hz with no more than 0.008% THD; dynamic power 303 W/ch into 2 ohms, 235 W/ch into 4 ohms; 150 W/ch into 8 ohms; frequency response 2-50,000 Hz +0, -1 dB. .... \$530  
**CW-A90.** Optional woodgrain side panels for A-8190. .... \$70

**A-8170 Intergrated Amplifier**  
Integrated amplifier features super-servo and delta power supplies; full audio and video input switching; 6 audio and 2 video inputs including moving magnet/moving coil phono; direct CD input; direct tone controls with contrabass; heavy-duty speaker terminals. 80 W/ch min root mean square into 8 ohms from 20-20,000 Hz with no more than 0.008% THD; dynamic power 224 W/ch into 2 ohms, 170 W/ch into 4 ohms, 115 W/ch into 8 ohms; frequency



# INTEGRATED AMPLIFIERS

response 2-50,000 Hz +0, -1 dB, 17.12 x 5.81 x 15.31 in; 24.7 lb ..... \$420

## A-8150 Integrated Amplifier

Features delta power supply; seven audio inputs including MM/MC phono; CD direct input; selective tone control; off. A/B, and A + B speaker selection; discrete output stage. 60 W/ch min rms into 8 ohms from 20-20,000 Hz with no more than 0.06% THD; dynamic power 135 W/ch into 2 ohms, 110 W/ch into 4 ohms, 78 W/ch into 8 ohms; FR 1.5-30,000 Hz  $\pm$  1 dB, 17.12 x 4.31 x 10.69 in; 15.4 lb. .... \$280

## PHILIPS

### FA 860 Integrated Amplifier

High current/low impedance drive capability; FTC rated at 65 watts, 80 watts; dynamic power 90 watts, 150 watts, 180 watts; separate power supplies and heat sinks; 4 gang volume control; CD Direct and 6 other inputs; gold plated terminals for CD Direct and phono input; phono amplifier for either MC or MM cartridge; equalization curve to IEM standard; active tone control; parallel, selectable loudspeaker outputs for each channel; muting/protection circuit; source and tape selected display; metal cabinet; headphone output; gold-plated speaker relays; loudness and mono switches; 2 tape monitors; tape copy keys; slide balance control; bi-polar push-pull output stages. Output power 8 ohms; THD 0.008% at 65 watts at 8 ohms (1 kHz); IMD 0.03% at 65 watts at 8 ohms; linear inputs FR 18-70,000 Hz  $\pm$  1.0 dB; equalized inputs FR 40-20,000 Hz  $\pm$  1.0 dB; S/N CD Direct 106 dB, 4.5 x 16.5 x 13 in. .... \$439

### FA 960 Integrated Amplifier

High current/low impedance drive capability; FTC rated at 100 watts, 125 watts; dynamic power supplies and heat sinks for each channel; CD Direct function and 6 other inputs; Record Selector for parallel recording; Tone Defeat key to bypass bass and treble controls; gold plated terminals for CD Direct and Phono inputs; high accuracy phono amplifier for either MC or MM cartridges; equalization curve to IEC standard; active tone control; parallel, selectable loudspeaker outputs for each channel; muting/protection circuit; source and tape selected display; metal cabinet; headphone output; gold plated speaker relays; loudness and mono switches; 2 tape monitors; tape copy keys; slide balance control; bi-polar push-pull output stages. Output power 8 ohms; total harmonic distortion 0.008% at 100 watts at 8 ohms (1 kHz); intermodulation distortion 0.03% at 100 watts at 8 ohms; line inputs frequency response 18-70,000 Hz  $\pm$  1.0 dB; phono input frequency response 40-20,000 Hz  $\pm$  0.5 dB; signal-to-noise ratio CD Direct 106 dB, 5.75 x 16.5 x 13.25 inches ..... \$549

## PIONEER

### Elite A-91D Digital Integrated Amplifier

Integrated amplifier with digital circuit for CD's. Features line direct switch; non-resonating frame chassis, insulators, and heat sink; non-switching circuit type III; separate voltage- and current-amplifying stages; 2 high capacity, magnetically-shielded transformers; independent digital conversion circuitry; dual digital-to-analog converters; digital filter; quadruple-oversampling; analog low-pass filter; six digital inputs (two optical); three digital outputs (one optical); optical transfer distortion canceller ..... \$1,600

### VSA-910 Integrated Amplifier

Integrated amplifier with continuous average power output of 100 watts per channel minimum at 8 ohms from 20-20,000 Hertz with <0.005% total harmonic distortion. Features surround sound mode with continuous average power output of 70 W/ch in front speakers, 30 W/ch in rear; non-switching circuit type II; Dolby, stadium, and simulated surround with digital delay; 4 video inputs; split-screen video enhancer; programmable smart remote; acoustic memory; Super Bass ..... \$830

## A-717 Integrated Amplifier

Integrated amplifier with continuous average power output of 100 W/ch min at 8 ohms from 20-20,000 Hz with < 0.003% THD. Features non-switching circuit type III; separate voltage- and output-amplifying stages; separate circuit blocks; anti-resonance, anti-vibration design; line direct switch; 8 inputs; hybrid booster for MC cartridges; independent power switch for phono; gold-plated phono and CD inputs. 17 x 6.25 x 16.75 in; 41 lb, 14 oz ..... \$750

## PROTON

### D540 Integrated Amplifier

High-current, high-dynamic power amplifier with Dynamic Power On Demand (DPD). Features phono section with MC and MM phono selections; active volume control; anti-clipping circuit. 40 continuous W/ch from 20-20,000 Hz; FR 20-20,000 Hz  $\pm$  0.2 dB; S/N 85 dB (unweighted), 105 dB (A-wtd); dynamic headroom 6 dB; dynamic power rating: 1HF 20 ms at 8 ohms is 160 W, 4 ohms 280 W, 2 ohms 380 W; 100 ms duration 8 ohms is 150 W, 4 ohms 220 W, 2 ohms 230 W; 200 ms 8 ohms is 150 W, 4 ohms 190 W, 2 ohms 200 W, 16.5 x 3.5 x 12.5 in; 19.14 lb ..... \$319

### AM-300 Integrated Amplifier

30 W/ch integrated amp with DPD for 6 dB of headroom and a dynamic power rating at 8/4/2 ohms of 120/200/220 W. Features low imp drive capability; remote control; low-noise MC amp; selectable MC/MM input. THD 0.01%; damping factor 90 dB; line input sens 150 mV; line input imp 47K ohms/220pF; phono input sens MM/MC 2.5/0.25 mV; phono input imp MM/MC 47K ohm/100 ohm; crosstalk at 1,000 Hz is 75 dB; S/N 100 dB for tape and video. .... \$289

### AM-200 Integrated Amplifier

20 W/ch integrated amp with up to 52 W of dynamic power at ohms with 0.15% THD. Features low imp drive capability; bass EQ; selectable phono preamp load capacitance for any MM cartridge; cassette deck loop. IMD 0.15%; damping factor > 150; FR 20-20,000 Hz  $\pm$  0.2 dB; S/N 102 dB, 16.5 x 3 x 10 in; 11.4 lb \$249

## REALISTIC

### SA-150 Stereo Mini Amplifier

Inputs for tuner, tape deck, turntable. Mono/stereo button; tone control; headphone jack; walnut-grain vinyl. 9 x 2.5 x 6 in ..... \$60

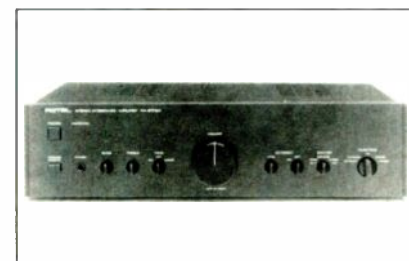
### SA-10 Stereo Micro Amplifier

Inputs for ceramic phono, tuner, tape deck. Stereo/mono button; tone control; L/R volume control. 7.9 x 3.25 x 5.5 in ..... \$30

## ROTEL

### RA870BX Integrated Amplifier

Integrated amp with 100 W/ch from 20-20,000 Hz



bridgeable to 300 W. MC input; CD direct input with level control; high current, 0.03% THD; 0.05% intermodulation distortion ..... \$649

### RA840BX2 Integrated Amplifier

50 W/ch 20-20,000 Hz; Upgraded power supply with metal bypass caps. Close tolerance selected components; high tolerance; 0.05% THD; 0.08% IMD; MM/MC phono inputs; high current ..... \$379

RA820BX2. Similar to RA840BX2 except no MC phono and 30 continuous W/ch from 20-20,000 Hz with no more than 0.05% THD into 8 ohms; IMD 0.08%. .... \$279

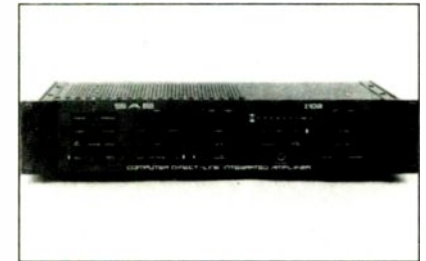
### RA840BX3 Integrated Amplifier

50-W/ch amplifier with 3 gain stage front end; close tolerance selected components; high current design MC ..... \$399

## SAE

### I102 Integrated Amplifier

60 W/ch integrated amp with on board computer to eliminate dependency between front-panel control switches and audio circuits. Max THD from 20 Hz-20,000 Hz 0.025% at full rated power both ch driven. All controls are grouped together by function with alphanumeric and digital LED display for input



functions, tone settings and volume level. Features 2-way tape copy; external loop; MM & MC phono inputs; 3 programmable digital tone memories; sequential audio muting (fade out/in when switching inputs); high-current power-amp stage; peak/average LED power display ..... \$499

## SHARP

### Optonica SM-A75 A/V Surround-Sound Integrated Amp

Features 11 surround effects; 3 user-programmable modes; 15 W/ch, 4 ch system; 2 monitor output controls; FL display; Super Bass; A/V cross playback; wireless remote control; adjustable time delay; adjustable feedback level; dubbing selection; 9 audio inputs/5 video inputs; 3 audio outputs/4 video outputs, signal-to-noise ratio 89 dB (75 dB phono); IMD 0.8%; CD frequency response 15-30,000 Hz in front, 15-17,000 Hz in rear ..... \$600

## SHERWOOD

### AI-1210R Integrated Amplifier

Feature: surround sound; full-function infrared wireless remote control; video sound input; loudness control; direct switch; low-noise phono amplifier; subsonic filter; 100 watts per channel; headphone input jack; peak power indicator; mute switch; intermodulation distortion 0.04%; signal-to-noise ratio 79 dB; frequency response 8-70,000 Hz; 5.1 x 17.3 x 13.0 in ..... \$449



### AI-1110 Integrated Amplifier

Features surround sound; video sound input; loudness control; direct switch; 50 watts per channel; low-noise phono amplifier; rotary-type volume control; intermodulation distortion 0.1% ..... \$219

# INTEGRATED AMPLIFIERS

## SANSUI

### AU-X901 Integrated Amplifier

Vintage series stereo integrated amp with Alpha X-balanced technology. Features direct-balanced input for Sansui CD players; independent record selector with OFF position; power amp direct connection; high-gain phono EQ for MM and MC cartridges with FET input; bass and treble controls; selectable bass turnover; gold-plated input/output terminals; A-B speaker switching; subsonic filter; loudness contour; ext processor loop. Inputs for phono; tuner; tape; tape 2; tape 3; tape/DAT; CD player; tuner. 130 continuous average W/ch from 10-20,000 Hz with no more than 0.003% THD into 8 ohms. S/N 120 dB; MM phono sens 2.5 mV/47k ohms. Slew rate  $\pm 200V/\mu\text{sec}$ ; 17.63 x 6.31 x 17.38 in; 44.1 lb; black finish ..... \$1,000  
**AU-X701.** Similar to AU-X901 except 100 W/ch into 8 ohms with no more than 0.003% THD. .... \$700  
**AU-X501.** Similar to AU-X701 except 80 W/ch with no more than 0.005% THD ..... \$400

### AU-X301 Integrated Amplifier

Vintage series integrated amplifier with Alpha X-balanced technology. Features high-gain phono EQ for MM and MC cartridges; independent record selector; subsonic filter; A-B speaker switching. 65 W/ch into 8 ohms from 20-20,000 Hz with no more than 0.05% THD ..... \$300

### AU-G99X Integrated Amplifier

Stereo integrated amp with X-balanced technology. Features FL peak power level indicators with meter range switch; MC cartridge preamp; bass, treble, and midrange tone controls; tone-defeat switch; bi-directional tape dubbing with REC selector; low/high filters; muting switch; loudness switch; headphone jack; connections for 2 pairs of speakers. 160 W/ch into 8 ohms from 20-20,000 Hz with no more than 0.003% THD; S/N 110 dB (line). 88/70 dB (MM/MC phono). .... \$1,000

## SONY

### TA-F700ES 105-W/ch Integrated Amplifier

Features nonmagnetic G-chassis construction; spontaneous twin-drive power supply; super legato linear circuitry; source direct switch to route input signal directly to volume control; passive tone-control circuitry with switch-selectable bass and treble turnover frequencies; defeatable subsonic filter; inputs for 3 tape decks with dubbing capabilities, MM/MC phono, CD player, tuner, and AUX signal; independent record output selector for taping one signal while listening to another; A-B, A + B speaker switching. 105 continuous W/ch into 8 ohms with 0.004% THD, 140 W/ch into 4 ohms with 0.008% THD. 17 x 6.38 x 17.25 in; 40 lb. .... \$700

### TA-F500ES 80-W/ch Integrated Amplifier

Features nonmagnetic G-chassis construction; spontaneous twin-drive power supply; super legato linear circuitry; source direct switch to route input signal directly to volume control; passive tone-control circuitry; defeatable subsonic filter; inputs for 3 tape decks (2 video); MM/MC phono, CD player, tuner, and AUX signal; independent record output selector for taping one signal while listening to another; A-B, A + B speaker switching. 80 continuous W/ch into 8 ohms with 0.006% THD, 100 W/ch into 4 ohms with 0.01 THD. 17 x 5.75 x 14.75 in; 29 lb ..... \$500

## TECHNICS

### SU-V90D 100-W/ch Digital Integrated Amplifier

Digital integrated amplifier that accepts optical or coaxial digital outputs from CD players and other digital equipment; 4-DAC 18-Bit high resolution internal digital signal processing; 100 W/Ch at 0.002% THD into 8 ohms, both channels driven from 20-20,000 Hz; 4 D/A; quadruple-oversampling digital filter; automatic switching between sampling frequencies; subsonic filter; direct digital operation mode. .... \$1,100



### SU-V10X 120-W/ch Integrated Amplifier

Features separate record and input selectors and A/V terminals. Inputs for MM phono; MC phono; tuner; tape; tape 2; aux; phono 2; CD player; DAT deck; VCR; TV; tuner. 120 W/ch into 8 ohms; 29.8 lb; 16.94 x 5.8 x 15.41 in ..... \$820  
**SU-V7X.** Similar to above except 100 W/ch into 8 ohms; 24.3 lb ..... \$625

### SU-AV55 50-W/ch A/V Integrated Amplifier

A/V integrated amplifier with digital Dolby surround-sound. Features digital low-bass synthesis with level control; wireless remote control; S-VHS input/output terminals; 3 A/V inputs; 7 audio inputs; video out and S-VHS video out; FL display; stereo-plex simulated stereo. Front: 50 W/ch, both channels driven into 8 ohms from 20-20,000 Hz with less than 0.02% THD. Rear: 10 W/ch both channels driven into 8 ohms from 20-20,000 Hz with less than 0.09% THD ..... \$800

### SU-V650 90-W/ch Integrated Amplifier

Integrated amplifier with moving coil and moving magnet phono inputs. Features class AA operation; tone control defeat switch; subsonic filter; 4-input selector with LED indicators; 2 tape loops; record out selector; CD-direct operation; 90 W/ch ..... \$500



### SU-V450 50-W/ch Integrated Amplifier

Integrated amplifier rated at 50 W/ch, both channels driven into 8 ohms, from 20-20,000 Hz with <0.003% THD. Features phono EQ section; class AA operation; tone control defeat switch; 4-input selector with LED indicator; 2 tape loops; CD-direct operation ..... \$360

## TOSHIBA

### XB-1000 Digital Sound Integrated Amplifier

A/V digital surround-sound processor and controller. Features 10 audio inputs; 4 video inputs; numerous A/V cross-play options; inputs include 2 tape decks, 2 VCR's, CD player, DAT deck, television; 125 W/ch stereo, 50 W/ch Dolby surround; remote control; 12 digital sound effects including concert hall, night club, cathedral, stadium, and theater ..... \$949

## VECTOR RESEARCH

### VA-1400 100-W/ch Integrated Amplifier

100-W/ch high-current integrated amp with 8 output transistors. 200 W/ch with optional VA-1450 bridging amp. Inputs for MM phono; MC phono; tape; CD; video sound source. 100 continuous average W/ch from 20-20,000 Hz with <0.08% THD into 4 ohms; dynamic headroom 2.5 dB; IHF IMD 0.08%; FR 10-

40,000 Hz  $\pm 1$  dB. 17 x 3 x 12 in; 20 lb ..... \$350

## YAMAHA

### AX-900U Integrated Amplifier

Integrated amplifier with independent preamp/power amp configuration. Features absolute linear amplification; high dynamic power; low-impedance drive capability; CD direct position; continuously variable loudness control; preamp in/main amp out terminals; dual record-out selectors. 130 W/ch min rms into 8 ohms from 20-20,000 Hz with less than 0.005% THD. Black; 42 lb. .... \$749-

### AVX-1009 Integrated Amplifier

Master A/V control amplifier with 10 audio and 6 video inputs. Features S-VHS terminals; switchable 4 channel (65 W/ch front, 14 W/ch rear) or 3 channel (65 W/ch front, 28 W center channel out) operation; bass, midrange, treble, stereo balance and bass extension tone controls; separate rear or center channel volume control; 8 mode digital surround processor with continuously variable delay including Dolby surround; video enhancer; independent record out selection of video and audio signals; 3-mode superimpose video monitoring; title editing; master volume control; integrated system remote control. .... \$699

### AX-700U Integrated Amplifier

Integrated amplifier with low-impedance drive capability. Features absolute linear amplification; high dynamic power; low-impedance drive capability; CD direct position; continuously variable loudness control; record-out selector; accessory output loop; 3 tape inputs. 110 W/ch minimum root mean square into 8 ohms from 20-20,000 Hz with less than 0.005% total harmonic distortion. With black finish; 29 lb ..... \$599

### AVC-50 Audio Video Integrated Amplifier

Master A/V integrated amplifier with built-in surround sound decoder. Features 10 audio and 4 video inputs and outputs; RS integrated system remote control; built-in video enhancer with continuously variable sharpness, detail, and level control; 5 surround modes including Dolby Surround; bass extension control; continuously variable delay time control. 45 W/ch (front), 45 W/ch (rear) min rms into 8 ohms from 20,000 Hz with less than 0.05% THD. Black; 18 lb. .... \$549

### AVC-30U Audio Video Integrated Amplifier

Master A/V integrated amplifier with built-in surround sound decoder. Features RS integrated system remote control; audio and video input source selection; independent record out selection of audio and video sources; pre-main coupling loop; 4-channel drive. 100 watts per channel (front), 20 watts per channel (rear) into 8 ohms from 20-20,000 Hertz with less than 0.05% total harmonic distortion. With black finish; 26 lb. .... \$449

### AX-500U Integrated Amplifier

Features absolute linear amplification; high dynamic power; low-impedance drive capability; CD direct position; continuously variable loudness control; record-out selector; accessory output loop; MM/MC phono selector; 2 tape inputs; banana-plug compatible speaker terminals. 85 W/ch minimum root mean square into 8 ohms from 20-20,000 Hz with less than 0.01% total harmonic distortion. With black finish. 18 lb ..... \$399

### AX-400U Integrated Amplifier

Integrated amplifier with low-impedance drive capability. Features high dynamic power; continuously variable loudness control; pure-current servo phono-EQ amp; moving magnet/moving coil phono selector; banana-plug compatible speaker terminals. 55 watts per channel minimum root mean square into 8 ohms from 20-20,000 Hertz with less than 0.015 percent total harmonic distortion. With black finish. 16 pounds ..... \$289



# Investing in sound? Here's how to make it pay off.



## Great buys—at a great buy: SAVE 74%!

*Stereo Review* is written for people who want to make smart buying decisions. We'll help you find the right stereo equipment—the *first* time you buy—and show you how to use it the right way. Because *sound information* is the key to getting an audio system that gives you what you really want.

We test over 70 stereo products in all price ranges each year. *Stereo Review's* product evaluations tell you how the components sound... identify unique features... compare models to others in the same price bracket. We warn you about design quirks, distortion, potential problems. We make the components suffer—so you don't have to.

You'll appreciate our straightforward explanations of audio technology. Telling you how to get more out of your equipment. Announcing important breakthroughs. Clueing you in on professional maintenance tips. The kind of inexpensive know-how that can make a million-dollar difference in how your system sounds.

Even if you already have the perfect system, you'll value *Stereo Review's* record reviews. An average of 30 a month, in all categories of music. They'll insure that your system's power isn't wasted on inferior recordings.

**Use this coupon to subscribe to *Stereo Review* at 74% OFF. It's one of the best sound investments you'll ever make!**

### Stereo Review

P.O. Box 55527  
Boulder, CO 80322-5627

**YES!** I want superior stereo sound.  
Please enter my subscription to *Stereo Review* for the term checked below:

- One year (12 issues) \$6.97  
 Two years (24 issues) \$13.94  
 Three years (36 issues) \$20.97

CHECK ONE:  Payment enclosed.  Bill me later.

Mr. \_\_\_\_\_  
Mrs. \_\_\_\_\_  
Ms. \_\_\_\_\_  
(please print full name)

Address \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_ Zip \_\_\_\_\_

Annual newsstand cost is \$2700. The full one-year subscription price is \$13.94.

Foreign postage: Add \$3 a year for Canada, \$5 a year (payment in U.S. currency must accompany order) for other countries outside U.S. and possessions. Please allow 30 to 60 days for delivery of first issue. 8H55

# TUNERS



## ACCUPHASE BY MADRIGAL

### T-106 AM/FM Stereo Tuner

Quartz-locked synthesis; 14-station random memory; pulse tuning; double-tuned front end; FM stereo demodulator; AM synchronous detector; signal-strength meter; peak-modulation meter; MPX filter; sel switch; muting switch. FM section: 50-dB quieting sens, mono 17 dBf, stereo 17 dBf; S/N 83 dB stereo, 79 dB mono (at 80 dBf A-wtd); FR 10-60,000 Hz  $\pm 0.5$  dB; capture ratio 1.5 dB; sep 50 dB at 1,000 Hz; AM sup 80 dB at 65 dBf. AM section: sens 20  $\mu$ V/m at 20 dB S/N; 17.5 x 5.06 x 14.56 in ..... \$2,000

### T-107 Synthesizer FM Tuner

Electronic tuning; 12-station random memory; auto sweep for FM reception; double-tuned front end to reject interference and IMD; differential-gain linear FM detector; IF filters with flat group-delay characteristics; resonator-controlled stereo demodulator; multipath and signal-strength meter; MPX filter; muting switch; champagne-gold or anodized-black finishes. FM section: 50-dB quieting sens 17 dBf; S/N stereo 85 dB; FR 10-16,000 Hz  $\pm 3$  dB; capture ratio 1.5 dB; sep 50 dB at 1,000 Hz; AM sup 80 dB; adj-ch rej 30 dB. 17.5 x 4.36 x 13 in; 12.8 lb ..... \$1,350

## ACOUSTIC RESEARCH

### AR T-02 AM/FM Tuner

Features infrared remote control of tuning functions; system remote operation; 8 AM/FM station presets; frequency-synthesized tuning; digital frequency display; smooth flywheel-assisted tuning; manual or auto station search. FM section: FM usable sens (mono) 11.2 dBf (2.0  $\mu$ V); FM 50-dB quieting sens 37.2 dBf (40  $\mu$ V) stereo, 14.6 dBf (3.0 mV) mono; S/N 75 dB stereo; FR 30-15,000 Hz  $\pm 0.5$  dB; capture ratio 1.0 dB; sep 48 dB at 1,000 Hz; AM suppression 58 dB; alt-ch sel 60 dB. AM section: FR 60-3,000 Hz  $\pm 3$  dB. 3.31 x 17 x 13-in. .... \$499

## ADCOM

### GTP-500 Tuner/Preamplifier

Preamplifier with built-in tuner can be used with Adcom or other power amps. Wireless remote control included. Remote sensors available for remote control from different rooms. Tuner section features quartz-referenced digitally synthesized tuning; auto up and down scan; 8 AM/FM presets; 5-LED signal-strength display; high-blend circuit; 2 sets of outputs (AC coupled, DC coupled). Preamp section features inputs for MM phono; tape; tape 2; CD player; tuner. S/N phono A-wtd 85 dB; IMD preamp 0.0015%; sens tuner 36.5 dBf stereo; THD tuner 0.09% stereo at 1,000 Hz; S/N tuner 75 dB stereo; sep tuner 52 dB at 1,000 Hz. 3.325 x 17 x 12.75-in ..... \$600  
GTP-500W. As above with white front panel. \$650  
GTP-500S. With silver front pane ..... \$650

### GFP-555 AM/FM-Stereo Tuner

Features quartz-referenced digitally synthesized tuning; auto up/down scan; instant-recall preset tuning; fluorescent digital-frequency display; 8 AM/FM presets; 5-LED signal-strength display; switchable high-blend circuit; mono/mute switch; tuning accuracy of 0.00025%. THD stereo 0.07% at 1,000 Hz; 50-dB quieting sens stereo 35.5 dBf; S/N 78 dB stereo; FR 30-15,000 Hz  $\pm 3$  dB; capture ratio 1.5 dB; sep 53 dB at

1,000 Hz; AM supression 70 dB. 3.25 x 17 x 12.5-in. .... \$500  
GFP-555W. As above with white front panel. \$550  
GFT-555S. With silver front panel. .... \$550

### Accessories

RM-3. Optional rack-mount adaptors for GTP-500 and GFT-500 ..... \$20/pr  
RM-3W. RM-3 in white ..... \$25/pr  
RM-3S. RM-3 in silver ..... \$25/pr  
XR-500. Optional remote sensor for GTP-500. \$90

## a/d/s/

### CC4 Digital Tuner/Preamp

With microprocessor operating system for remote-control operation, digital volume and tone controls, and alphanumeric display. Remote IR receiver capability for multi-room remote control; RS-232 port for control by personal computer; digital-synthesized tuning with 30 AM or FM stations; optional remote control. Preamp section: max output  $>7$  V rms into 10,000 ohms/1,000 pF; volume and balance control range 80 dB in 1-dB steps; bass and treble control range  $\pm 10$  dB in 2-dB steps; low bass 0 to +6 dB in 1-dB steps. FM section: sens  $<13$  dBf mono; 50-dB quieting sens  $<40$  dBf stereo; capture ratio  $<1.5$  dB; sel  $>65$  dB; spurious rejection  $>100$  dB; stereo S/N  $>70$  dB; sep at 1,000 Hz  $>47$  dB. AM section: sens for 6-dB S/N  $<10$   $\mu$ V; IF rejection  $>50$  dB; S/N 44 dB. 2.8 x 17.5 x 14.8-in; 18 lb ..... \$1,000

### Atelier T2 Digital Tuner

AM/FM synthesized tuner with 16 station presets and auto FM search tuning. Features flywheel manual tuning; fine-tuning control; switchable muting; high-blend control; LED frequency display; center tuning plus signal-strength displays; AC outlets. FM usable sens mono 1.0  $\mu$ V (11.0 dBf) stereo 5.5  $\mu$ V (26.1 dBf); stereo 50-dB quieting sens 15  $\mu$ V (34.8 dBf); S/N mono  $>70$  dB, stereo  $>65$  dB; FR 10-14,500 Hz,  $\pm 0.5$  dB; ch sep  $>38$  dB at 10,000 Hz; capture ratio  $<1.8$  dB; AM quieting sens  $<5$   $\mu$ V for 6 dB S/N; image rejection  $>55$  dB; S/N (with 1,000-Hz 5-mV signal)  $>44$  dB; 2.8 x 17.5 x 14.8-in; 13.2 lb ..... \$539

### RC1 Unified Remote Control

Infrared wireless remote controls CC4, R4 receiver, CD3 CD player, and other a/d/s/ components. \$150

## AKAI

### AT-93-B AM/FM Tuner

Quartz digital synthesized AM/FM tuner; 20-station random preset; optimum reception system; automatic select antenna A/B; band width; blend mode and hi-cut mode; open loop DC amp in audio section; resonance-free rigid chassis structure; separate power supply for RF and audio; timer program preset \$599

### AT-52-B AM/FM Tuner

Quartz digital synthesized AM/FM tuner; 16-station random preset; IF band selector; 5 step signal strength meter; preset station scan ..... \$249

## ARCAM

### Arcam Delta 80 AM/FM Stereo Tuner

AM/FM tuner with 12 presets features classic flywheel-assisted rotary knob for continuous tuning; three-

color Traffic Lights FM tuning indicator; signal strength meter; sens 1.4  $\mu$ V; S/N 70 dB; FR 20-12,000 Hz  $\pm 0.5$  dB; capture ratio 1.5 dB. 16.93 x 10.43 x 2.36 inches ..... \$599

### T21 Stereo FM Tuner

FM tuner has both 5 presets and continuously variable tuning. Features bar graph LED frequency scale; signal strength meter; tuning indicator; optional genuine wood veneers in teak, walnut, or rosewood finish; sens 1.3  $\mu$ V; capture ration 1.5 dB. 17.72 x 9.45 x 2.36 in ..... \$399

### Arcam Alpha AM/FM Stereo Tuner

AM/FM tuner with flywheel assisted tuning knob and supplied station markers. Features three-color Traffic Lights tuning indicator; stereo beacon; mono switch; AFC switch; sensitivity 1.4  $\mu$ V; signal-to-noise ratio  $>68$  dB; frequency response 20-12,000 Hertz  $\pm 0.5$  dB; capture ration 1.5 dB. 15.75 x 9.1 x 3.74 inches ..... \$299

## AUDIO BY VAN ALSTINE

### Transcendence Series Two FM Tuner

FM tuner with discrete audio stage. Features electronic signal seeking; digital readout; 5 non-volatile station presets; mono/stereo switching; variable tuning with between-step capability; isolated active output circuits; all-metal film resistors and capacitors; class-A current-sourced predrivers; separate shunt-regulated and filtered power supply. 17 x 9 x 3 in; 10 lb. .... \$825

### Fet Three FM Tuner

FM tuner with Overload-Immune FET integrated circuitry in the audio stages. Features film coupling capacitors; optimized power supply decoupling circuits; electronic signal-seeking; tuning; digital readout; non-volatile station presets; mono-stereo switching; variable tuning; headphone jack. 17 x 9 x 3 in; 9 lb. .... \$525

## AUDIO DESIGN ASSOCIATES

### FM-600A Tuner

Analog FM tuner with 6 presets and digital frequency readout. Features AFC tuning; muting; stereo-blend noise filter; stereo/mono mode all front-panel switchable; signal strength/multipath LED meter; 15-pole IF filter; rear panel left and right output level controls; servo-lock circuitry; standard EIA rack-mountable. FM section: FM usable sens stereo 1.9 mV; 50-dB quieting sens stereo 2.7 mV; THD 0.15% at 1,000 Hz; S/N 65 dB; FR 15-15,000 Hz  $\pm 3$  dB; capture ratio 1.9 dB; sep 47 dB at 1,000 Hz; adjacent-ch rejection 90 dB 12 lb; 19 x 5.25 x 13 in. .... \$2,395

## AUDIO DYNAMICS

### T200 AM/FM Tuner

Digital-synthesis tuner with Schotz noise reduction. Features 8 AM/ 8 FM station presets; auto wide/narrow-bandwidth switching; extended AM response; auto station scanning; frequency response 15-15,000 Hz  $\pm 0.375$  dB; signal-to-noise ratio 77 dB stereo; capture ratio 1.75 dB. .... \$249

### T2000E AM/FM Tuner

Programmable AM/FM tuner. Features remote-con-



# TUNERS

trol; Schotz noise reduction; interference rejection; 10 AM/10 FM station presets; capture ratio 1.5 dB; signal-strength range 25-65 dB; sep 30 dB . . . \$349

## CAMBRIDGE AUDIO

### T75 AM/FM Tuner

Digital synthesis tuner with FM and AM wavebands. Variable bandwidth, 8 presets on FM and AM, dual FM demodulator with linear IF strip . . . \$799

### T40 AM/FM Tuner

Analog tuner with AM and two FM wavebands. Dual MOSFET tuning head, dual FM demodulator with linear IF strip, pilot tone cancelling stereo decoder and linear phase "Birdie" filter . . . \$599

## CARVER

### TX-11a FM/AM Stereo Tuner

Digital quartz-synthesized tuner with Asymmetrical Charge Coupled FM Detector circuit to reduce multipath distortion while retaining full separation. 13 presets; auto/manual scan; wide/narrow bandwidth selector; antenna. FM section: FM usable sens 1  $\mu$ V mono; 50-dB quieting sens 3.1  $\mu$ V; alt-ch sel 110 dB; adj-ch rej 110 dB; capture ratio 1.0 dB; AM sup 65 dB; image, i-f, spurious-response ratio 110 dB. AM section: sep 35 dB; S/N 77 dB . . . \$720

### TX-2 AM/FM Stereo Tuner

AM/FM tuner with Asymmetrical Charge Coupled FM Detector. FM section: FM usable sens mono 1.8  $\mu$ V, stereo 4.5  $\mu$ V; 50-dB quieting sens stereo 5  $\mu$ V; capture ratio 1.5; sep 43 dB at 1,000 Hz; AM sup 60 dB; alt-ch rej 58 dB; adj-ch rej 28 dB. AM section: sens 250  $\mu$ V with built-in antenna, 20  $\mu$ V with external antenna . . . \$450

## CREEK AUDIO BY MUSIC HALL

### T40 FM Tuner

FM tuner with auto mute, AFC, local/DX and narrow/wide switching . . . \$425

## DAVIDSON-ROTH

### Day Sequerra FM Broadcast Monitor

Features spectrum analyzer, audio vector oscilloscope; FM tuning with 1 KHz accuracy, multipath display; RF frequency counter. Fully balanced, dual differential RF signal path with FFT circuitry. Modified Travis-Smith detector for flat frequency response over 1.2 MHz deviation bandwidth, reducing stereo distortion to <0.1% at 1 KHz. IHF sens 5.0 dBf mono/15.0 dBf stereo; 50 dB quieting sens 12.0 dBf; S/N 75 dB; FR 30 KHz-15 KHz  $\pm$  0.5 dB; IMD 0.09%. Rosewood, walnut, and black cabinet types available; 7.38 x 19.5 x 16 in; 45-50 lb . . . \$8,500

dbx

### TX1 AM/FM Tuner

Features Schotz dynamic noise reduction; auto IF-bandwidth switching; extended NRSC AM response; 6 AM/6 FM station presets; mono and high-blend switches. FM FR 15-15,000 Hz  $\pm$  0.25 dB; FM S/N 79 dB stereo; capture ratio 1.5 dB; FM sens (75-ohm input) 43.7 dBf (42  $\mu$ V) stereo with 60-dB S/N. \$800

## DENON

### TU-800 AM/FM Tuner

Features Dynamic-Twin-Drive PLL circuits; 3-step IF bandwidth selection; 30-station random preset memory; MPX-NR switch; high-sensitivity digital synthesis tuning; low-impedance output; auto-scan tuning; quick manual tuning; step manual tuning; last-channel-tuned memory; large FI display. FM 50 dB quieting sens 20  $\mu$ V (37.2 dBf) stereo, 1.6  $\mu$ V (15.3 dBf) mono; signal-to-noise ratio 96 dB mono, 86 dB stereo; capture ratio 1.2 dB; AM sup 70 dB. 3.5 x 17.09 x 12.4-in . . . \$500

### TU-600 AM/FM Tuner

Features dynamic PLL detection with auto bandwidth selection; 20 AM/FM presets with stored bandwidth instruction from each station; low-imp outputs; auto or manual scan. Side panels standard. . . \$400

### TU-550 AM/FM Tuner

Features front end MOSFET RF; 20-station random preset memory; 2-position IF mode selection; MPX NR switch; auto scan tuning/manual tuning; last-



channel memory; fluorescent display; FM usable sens 0.9  $\mu$ V; S/N mono 84 dB, stereo 78 dB; THD stereo 0.08%; image rejection 45 dB; IF rejection 85 dB; 2.79 x 17.08 x 11.41 in; 6.84 lb . . . \$300

### TU-450 AM/FM Tuner

Quartz-locked digital tuner features 16 station presets; digital-synthesis tuning; MPX-NR switch; auto-scan tuning; quick manual tuning; manual step tuning; last-channel memory. FM 50 dB quieting sens 23.1  $\mu$ V (38.5 dBf) stereo, 3.1  $\mu$ V (21.2 dBf) mono; S/N 80 dB mono, 76 dB stereo; capture ratio 1.5 dB; AM sup 50 dB. 2.75 x 17.09 x 9.37-in . . . \$225

## DUAL BY ORTOFON

### CT5040 AM/FM Tuner

High-performance AM/FM tuner features digital synthesis tuning and 40 AM/FM station presets. Black . . . \$220

## HAFLER

### DH-330 AM/FM Tuner

Quartz-controlled tuner provides exact station selection with a digitally synthesized tuning system. Features multipath distortion and noise-sensing circuit; 5-station memory; autosearch; digital read out; nonvolatile memory; 3 dual-gate MOSFET's; 5 tuned front end circuits; triple-tuned RF stage volume control and separate output on front panel for taping or headphones; kit is comprised of 4 fully assembled, tested, and aligned circuit boards which plug together. Usable sens 11.3 dBf; 50-dB quieting sens mono 15.3 dBf, stereo 36.5 dBf; dist. at 1,000 Hz, 100% modulation mono 0.1%, stereo 0.18%; capture ratio 1.5 dB; alternate ch sel 60 dB; sep 45 dB at 1,000 Hz; 35 dB at 10,000 Hz; S/N, mono, 72 dB, stereo, 68 dB; assembled . . . \$425

## HARMAN KARDON

### Citation Twenty-Three AM/FM Tuner

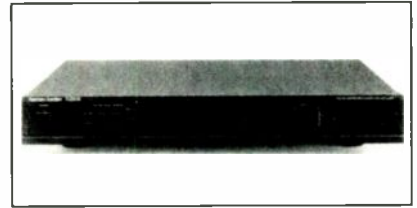
16 presets; infrared remote control; mono and mute buttons; LCD readout; Active-Tracking High-Selectivity (Hi Q) Circuit; digital-synthesized quartz-locked tuning; analog fine tuning; flywheel-stabilized tuning knob; seek and manual tuning; anodized brushed aluminum blue/black finish with molded rubber trim; heavy-gauge metal chassis. FM specs: 50-dB quieting sens stereo 15.2 dBf (normal), 19.1 (Hi Q); S/N stereo 75 dB (normal and Hi Q); capture ratio 0.75 dB (normal), 1.75 (Hi Q); alt-ch sel 65 dB (normal), 75 (Hi Q) . . . \$649

### TU920 Active-Tracking AM/FM Tuner

Active-Tracking High-Selectivity (Hi Q) Circuit; digital-synthesized quartz-locked tuning; all-metal chassis; 16 presets; muting; 2-way seek; manual up/down tuning; 5-LED signal-strength meter; tuned indicator. FM specs: S/N stereo 74 dB (normal and Hi Q); capture ratio 1.3 dB (normal), 2.0 (Hi Q); alt-ch sel 60 dB (normal), 75 (Hi Q) . . . \$399  
TU911. Similar to above except lacks Active Tracking; signal-strength meter. . . \$299

### TU909 AM/FM Tuner

Digital-synthesized quartz-locked tuning; 6 AM/12FM presets; bi-directional seek tuning; black-out LCD;



ultrawideband; manual tuning; tuned indicator; stereo indicator; black metal chassis . . . \$229

## HITACHI

### HPT120AVSW AM/FM Tuner/Preamp

Quartz digital-synthesized tuner section; 20 AM/FM presets; unified infrared remote control with LCD display; audio inputs for phono, CD, tape; video inputs for TV, VCR, videodisc player; electronic volume and balance controls; 5-band graphic equalizer; video signal enhancer; rosewood end caps . \$450

### FT-007SW Quartz Digital AM/FM Tuner

16 AM or FM presets; FCCS designed to eliminate intermodulation and interference; auto quieting control function; signal-locked indicator for FM; 2-pole birdy filters; AM loop antenna; digital display to help position FM antenna; rosewood end caps . . . \$350

## JVC

### FX1100BK AM/FM Tuner

Computer-controlled quartz-PLL digital-synthesis tuner with Opticalink system for reduced digital noise. Features 40 AM/40 FM station presets; auto memory; preset scan; variable stop level; dB signal-strength indicator; auto QSC; 6-column alphanumeric display; 2 antenna inputs; program memory and monitor for recording off the air unattended; record calibration signal generator . . . \$470

### FX555BK AM/FM Tuner

Quartz-PLL digital frequency synthesis tuner. Features Opticalink digital noise reduction system; 40 AM/40 FM station presets; preset scan; variable stop level; dB-reference signal-strength indicator; auto memory; preset repeat; preset cancel; multi-mode LCD; AM loop antenna; CATV antenna control unit . . . \$240

## KENWOOD

### KT-990D AM/FM Tuner

Features Pentacle power supply; DLRC (Direct Linear Reception Circuit); DLLD (Direct Linear Loop Director); DCC (Distortion Correcting Circuit); and DPD; usable sens 10.8 dBf; 50 dB quieting sens 16.2 dBf; S/N ratio 78 dB at 65 dBf; THD 0.009% at 1,000 Hz; alt-ch sel 60 dB; FR 20-15,000 Hz  $\pm$  0.5 dB; 17.31 x 3.06 x 13.06 in; 8.2 lb . . . \$375

### Basic KT-880D AM/FM Tuner

Basic series FM tuner with Pentacle Power Supply design. Features Direct Linear Reception Circuit; computer-controlled tuning system; 10-key direct-access tuning; auto/manual digital tuning; wide/nar-

The listings are based on data provided by the manufacturers. For more product information, contact an authorized dealer or the manufacturer directly. Manufacturers' addresses and phone numbers are listed in the directory beginning on page 217.

# TUNERS

row FM IF band selector; rec calibration switch; 20-station presets; FL display. FM 50 dB quieting sens 38.8 dBf (24  $\mu$ V) stereo; S/N 76 dB at 65 dBf, 83 dB at 85 dBf (stereo); capture ratio 1.0 dB (wide), 2.5 dB (narrow); FR 20-15,000 Hz  $\pm$  0.5 dB. 17.31 x 3.06 x 12.25 in; 7.7 lb. . . . . \$280

## KT-87 AM/FM Tuner

Quartz-synthesis digital tuner; Station Name Preset System (SNPS) for 12 AM/FM presets or 20 presets without SNPS; 2-event programmable timer; 60-minute sleep timer; preset scan; automatic/manual tuning; system remote controllable through KA-127; usable sens 10.8 dBf (0.95  $\mu$ V); 50 dB quieting sens, stereo 39 dBf at 65 dBf; stereo S/N ratio 73 dB; THD stereo 0.3%; capture ratio 1.2 dB; alt-ch sel 50 dB ( $\pm$  400 kHz); FR 30-15,000 Hz; spurious rejection ratio 80 dB; 6.5 x 16.56 x 9.87 in; 6.2 lb. . . . . \$189

## KINERGETICS

### KBT-1 AM/FM-Stereo Tuner

Designed to correct for hysteresis errors in electronics of broadcast station (adjustable correction); circuit designed to compensate for components used in broadcast station's electronics; remote power supply; digital-synthesis tuning; 5 AM, 5 FM presets; scan tuning; selectable IF bandwidth; inputs for 300- and 75-ohm antennas; finished in black or silver-anodized brushed aluminum. FM specs: 50-dB quieting sens 36.0 dBf stereo; THD stereo 0.05% (wide), 0.10% (narrow) at 1,000 Hz, 100% modulation, signal level 65 dBf; S/N mono 75 dB, stereo 70 dB; sep 40 dB (wide), 45 dB (narrow); capture ratio 1.5 dB; alt ch sel 70 dB (narrow), 50 dB (wide); image rej 75 dB; pilot and subcarrier rej 60 dB. AM specs: sens to 6 dB S/N 6.3  $\mu$ V; image rejection 50 dB; IF rejection 50 dB; FR 4,000 - 6 dB. . . . . \$695

## KYOCERA

### T-910 Digital AM/FM Tuner

Digital PLL quartz-synthesized stereo tuner. Features Dynamic Noise Reduction; 16 station presets; non-ferrous ceramic base/chassis; 2 FM antennas; computer-programmed narrow/wideband IF selection. FM section: FM usable sens 1.7  $\mu$ V (9.8 dBf); 50-dB quieting sens mono 3.0  $\mu$ V (14.8 dBf); THD 0.07%, mono 0.06% at 1,000 Hz; S/N stereo 81 dB, mono 84 dB; capture ratio 1.0 dB; sep 58 dB at 1,000 Hz; AM sup 55 dB; alt-ch rej 85 dB narrow, 40 dB normal. AM section: sens 280  $\mu$ V with built-in antenna, 10  $\mu$ V with external antenna; 26.5 lb. . . . . \$590

## LUXMAN

### T-111 AM/FM-Stereo Tuner

Remote AM/FM tuner with cable-ready FM fine tuning; unattended program recording; auto-seek AM/FM tuning; auto preset (memory) scanning; 20 random-access AM/FM stations stored in compu-store memory; computer analyzed tuning automatically adjusts internal parameters to optimize performance under variable reception conditions. FM usable sens 10.8 dbf; 50 dB quieting sens mono 19.0 dbf, stereo 38.0 dbf; S/N ratio mono 75 dB, stereo 70 dB; THD 0.2%, mono 0.15% (at 1,000 Hz); separation 50 dB (at 1,000 Hz); capture ratio 1.3 dB (at 65 dBf & 98.1 mHz). . . . . \$300

## MARANTZ

### ST 54 AM/FM Stereo Tuner

Quartz-locked digital frequency synthesis tuner. Features 24-station preset memory (16 FM/8 AM plus bandwidth setting for each preset); retains memory for 2 weeks without AC or battery; switchable wide/narrow bandwidth. . . . . \$780

### ST-432 AM/FM Tuner

Quartz-digital synthesized AM/FM tuner. Features 24 random-access preset station memories; remote control; last-tuned station recall; non-volatile memory

insures against power failure; THD 0.25%; alt-ch sel 55 dB; rejection ratio 60 dB. . . . . \$115

## McINTOSH

### MR-7082 AM/FM Tuner

AM/FM tuner with Signal Locked Loop tuning system. Features electronic memory for 7 AM and 7 FM stations; digital frequency readout; DMOS-FET RF amplifier; double-balanced mixer; PLL MPX decoder; audio output suppression circuits for 19 kHz and 38 kHz carrier; LED tuning meter; electronically regulated power supply; internal audio processor; memory search; wide-band AM; remote control interface. FM section: sensitivity mono 13 dBf (1.3 V) for 30 dB of quieting; signal strength for 50 dB of quieting, 18/36 dBf mono/stereo; capture ratio 1.5 dB; IMD 0.08% from 20-15,000 Hz with 100% modulation or less; alt ch sel 55 dB; sep 50 dB at 1 kHz; FM suppression 60 dB; image rejection 90 dB. AM section: sensitivity 35 V; S/N 55 dB IHF, 65 dB at 100% modulation; THD 0.2% at 30% modulation; sel 40 dB IHF; IF response 90 dB. Power requirement 120 V 50/60 Hz 10 W. 16 x 5.44 x 13 in. . . . . \$1,499

## MERIDIAN BY MADRIGAL

### 204 FM Stereo Tuner-Timer

Instant access to 18 preset stations; scan tuning; manual tuning in 50-kHz steps; displays frequency, preset number, signal strength, or time; battery backup; timer controls 200 system. 50-dB quieting sens 23  $\mu$ V stereo; sel 56 dB; capture ratio 1.5 dB; AM sup >55 dB. . . . . \$1,100

209. Remote master control works with 204 and other Meridian 200-series components; selects FM stations; controls 8 inputs, volume, and mute; needs 9-V battery. . . . . \$150

## NAD

### 4300 Monitor Series Tuner

Features digital frequency synthesis tuning; 55 decibels stereo separation; 80 dB selectivity; 120 dB image rejection; S/N ratio exceeds 80 dB; 8 AM/FM presets; IF wide/narrow; FM noise reduction; rack mountable. . . . . \$598

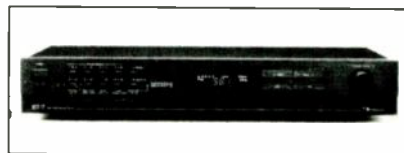
### 4225 Tuner

14 random AM/FM presets; ultralinear IF filters; switchable blend circuit; S/N ratio exceeds 75 dB \$248

## NAKAMICHI

### ST-7 AM/FM Stereo Tuner

Tuner with Schotz noise reduction. Features signal/multipath meter; 16 station presets; output level controls (R + L independent). FM IHF sens mono 1.7  $\mu$ V (10 dBf), stereo 3.9  $\mu$ V (17 dBf); FM usable sens



mono 1.7  $\mu$ V (10 dBf), stereo 3.9  $\mu$ V (17 dBf); 50-dB quieting sens mono 2.7  $\mu$ V (14 dBf), stereo 14  $\mu$ V (28 dBf); THD stereo 0.08%, mono 0.06% at 1,000 Hz; S/N 76 dB stereo, 80 dB mono; FR 20-15,000 Hz  $\pm$  1 dB; capture ratio 1.9 dB; sep 55 dB at 1,000 Hz; AM suppression better than 60 dB; alt-ch rejection >60 dB. 17.12 x 2.5 x 11.37 in; 10 lb, 6 oz. . . . . \$725

## NEC

### T-710 Digital AM/FM Tuner

Computer-controlled quartz-PLL digital-synthesis tuner with 16 AM/FM station presets. Features auto scan; preset scan; selectable (wide, narrow) IF bandwidth; FL frequency readout; low-noise dual-gate MOSFET front end; multiplex stereo decoder with a

pilot canceler and active filter; static-resistant low-imp AM loop antenna; ladder IF filter. Remote controllable when used with NEC unified-remote integrated amplifiers. FM usable sens 10.8 dBf (1.9  $\mu$ V). 17 x 3.2 x 10.8 in. . . . . \$299

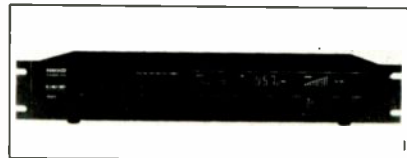
### T-610 Digital AM/FM Tuner

Digital quartz-PLL frequency-synthesis tuner with 16 AM/FM presets. Features auto seek; memory backup; ceramic IF filters; LED signal-strength meters; MPX filter; auto scan; low-noise junction FET. Alt. ch. selectivity 60 dB; stereo separation 0.3%; S/N 50 dB; image rejection 38 dB. . . . . \$229

## NIKKO AUDIO

### Gamma-400 Tuner

Variable high-blend control tuner with memory scan. Features 10 FM and 10 AM presets; muting; narrow/wide IF band selector; seek; auto/manual tuning;



220k microfarad capacitor for power back up; sens 9.2 dBf; sel 80 dB; sep 60 dB; S/N 86 dB; FR 30-15,000 Hz + 1 dB; 19" rack mountable. . . . . \$440

T-400. Identical to Gamma-400 but it is standard 17.25" width. . . . . \$420

## ONIX AUDIO BY MUSIC HALL

### BWD1 FM Tuner

Designed for high sensitivity, capture ratio and AM suppression. . . . . \$885

## ONKYO

### Grand Integra T-G10 FM Tuner

FM tuner with 5-mode APR system. Features 20-station random memory with battery-free backup; ultra high sensitivity; chassis damping; dual-antenna inputs; cable FM tuning capability; timer-controlled program preset capability; remote capable with supplied controller; wood side panel. . . . . \$850

### T-9090 MKII FM Tuner

Remote-controlled ultra-high-sensitivity FM tuner with computer-controlled APR to automatically or manually adjust for stereo/mono, local/DX, high-blend, wide/narrow/super-narrow bandwidth, and A/B antenna switching. Features multi-function digital display; digital readout of signal strength in dBf; 20 station presets; preset scan; auto memorization; timer programming; motorized output level control. Cable ready. . . . . \$750

### T-4087 AM/FM Tuner

Tuner with automatic precision reception system to control 4 modes (stereo-muting on/mono-muting off, auto high-blend on/off, local/DX, and IF bandwidth wide/narrow). Features 4 separate power supplies for RF amp, IF amp, demodulator, and multiplex decoder; 20 AM/FM station presets; battery-free memory backup; MOSFET RF amp front end; PLL demodulator. Black finish only. Wood side panels included. FM usable sens 17.2 dBf (2  $\mu$ V) stereo; 50-dB quieting sens 36 dBf (17  $\mu$ V) stereo; S/N 77 dB stereo; FR 30-15,000 Hz  $\pm$  1 dB; capture ratio 1 dB. 18.25 x 3 x 14.62 in; 12 lb. . . . . \$420

### T-4150 AM/FM Tuner

Computer-controlled quartz-synthesized AM/FM tuner with 3-mode APR, 20 station presets, high-blend override, and multi-PLL. FM usable sens 17.2 dBf (2  $\mu$ V) stereo; 50-dB quieting sens 36.1 dBf (35  $\mu$ V) stereo; capture ratio 1.3 decibels (wide); FM frequency response 30-15,000 Hz +0.5, -1 decibels. 17.2 x 2.75 x 14.5 inches; 8.2 pounds. . . . . \$320



# TUNERS

## T-4120 AM/FM Tuner

Digital quartz-synthesized AM/FM tuner with 16 station presets. Features digital frequency display; battery-free memory backup; stereo/mono switch; mute on/off; memory and signal-strength indicator. FM usable sens 17.2 dBf (2  $\mu$ V) stereo; 50-dB quieting sens 36.1 dBf (35  $\mu$ V) stereo; capture ratio 1.5 dB (wide); FM FR 30-15,000 Hz  $\pm$  1.5 dB. 17.2 x 2.81 x 10.56 in; 6 lb. .... \$210

## PARASOUND

### T/DQ-260 Digital Quartz Tuner

Quartz referenced, digitally synthesized tuner features 16 presets, 8 AM/8 FM; scan/manual tuning; mono mode switch; PLL tuning; regulated power supply; all metal chassis and panel; sep 50 dB; THD <0.1%; FR 20-15,000 Hz  $\pm$  0.5 dB; channel selectivity 66 dB; 17.25 x 2.5 x 9.5 in. .... \$285

### TU3 PLL FM Tuner

5-section tuned-Varicap RF section; microprocessor-controlled digital tuning; linear phase filters in IF stage; switchable de-emphasis. S/N stereo 68 dB (at 65 dBf), usable sens stereo 35.8 dBf (17  $\mu$ V); THD stereo 0.14%; FR 15-30,000 Hz  $\pm$  0.5 dB; capture ratio 1.5 dB; de-emphasis 25  $\mu$ s, 50  $\mu$ s, 75  $\mu$ s (switchable). 1.75 x 19 x 13.5-in; 13.5 lb. .... \$1,100

## PHILIPS

### FT 565 Digital-Synthesis Tuner

Quartz-locked digital synthesis tuner with 24-station random memory; 2-level automatic search tuning; multi-functional LCD display; 5-bar LED signal strength indicator; FM noise reduction; optional remote control; low-noise Tetrode MOSFET front ends, with intrinsic high linearity handle strong signals without distortion, and receives weak signals clearly; FM mixer oscillator is buffered to suppress radio interference; 75 ohm coaxial and 300 ohm balanced inputs accept any type of FM aerial input. Wave range 87.5-108 MHz; sens at 75 ohm, mono 26 dB S/N 1.3  $\mu$ V at 75 kHz deviation; stereo 46 dB S/N 25  $\mu$ V at 75 kHz deviation; THD mono/stereo 0.2%/0.5%; FR 30-15,000 Hz  $\pm$  0.5 -2 dB; IF suppression 80 dB; audio output 1000 mV. 60/66 x 420 x 260 mm; 3 kilograms. .... \$259

## PIONEER

### Elite F-91 Digital-Synthesizer Tuner

Digital AM/FM tuner. Features ARTS (Active Real-Time Tracing System) with active IF filter; digital decoding; 4-ganged tuning capacitor; MOSFET circuit; 24 AM/FM station presets; 3-position muting level; remote compatible; honeycomb chassis. THD 0.02%; alt ch sel 85 dB; S/N 88 dB. .... \$550

### F-717 Digital Direct Decoder AM/FM Tuner

Digital-processing tuner. Features electronic twin-varicaps; Pulse-Swallow frequency synthesis; 16 random AM/FM presets; large-loop AM antenna; FET buffer; 3-point signal indicator; AM stereo adaptor terminal. FR 20-15,000 Hz; alt ch sel 56 dB; sep (at 1 kHz) 60 dB; capture ration 1.0 dB. .... \$325

### F-551 AM/FM Tuner

AM/FM tuner with quartz-PLL tuning. Features CCTS (Computer-Controlled Tuning System); hi-blend circuit; 3-speed search; 24 random AM/FM presets; digital readout of signal strength; digital frequency display; remote-control capability. FR 30-15,000 Hz; alt ch sel 65 dB; sep (at 1 kHz) 40 dB. .... \$170

## PROTON

### 440 Digital Tuner

Schotz AM/FM tuner with Schotz Noise Reduction. Features digital station readout; 12 station presets; memory backup holds station settings for 2 weeks

when unplugged; adjustable rear panel output level. FM section: FM usable sens mono 1.8  $\mu$ V (10.3 dBf); 50-dB quieting sens mono (15.3 dBf), stereo (33.2 dBf); THD stereo 0.2%, mono 0.05% at 1,000 Hz; S/N 70 dB stereo, 75 dB mono; FR 20-20,000 Hz  $\pm$  0.2 dB; capture ratio 1.5 dB; sep 45 dB at 1,000 Hz; AM sup 60 dB; alt-ch rej 55 dB; adj-ch rej 90 dB. AM section: sens 300  $\mu$ V with built-in antenna. 16.5 x 2.5 x 9.75 in; 15 lb. .... \$269

### AT-300 AM/FM Stereo Tuner

AM/FM-stereo tuner with Schotz noise reduction and remote control option; 20 station presets; search & scan; PLL; FM sens 1.9  $\mu$ V and 50 dB quieting sens (stereo) is 3.5 dB; THD 65 dBf 0.1%; S/N 75 dB; sep 50 dB. .... \$229

### AT-200 AM/FM Stereo Tuner

AM/FM stereo tuner with dual-mode tuning system. Features search tuning; manual tuning; 12-position touchbutton-activated memory for 6 AM/6 FM station presets; phase-locked-loop frequency synthesis tuning; 5-number digital readout; stereo LED indicator; mono/stereo selector; signal strength indicator. Usable sens 1.8  $\mu$ V; THD 0.2%; S/N 74 dB stereo; capture ratio 1.5 dB; alt ch sel 65 dB; IF rejection 90 dB; stereo separation (at 1 kHz) 45 decibels. 16.5 x 2.5 x 10 inches; 7.5 pounds. .... \$209

## QUAD

### FM4 FM Tuner

FM-stereo tuner designed to be used with Quad 44 preamp. Features no controls except 8 pushbuttons to store/recall station presets, tuning knob, power switch; bar-graph meter to indicate signal strength, center-channel tuning; dedicated microprocessor that recalls desired station from memory, tunes it, automatically sets muting, automatic frequency control levels. Stations stored in memory remain there for up to 5 years, even with power disconnected. Available in anthracite grey. Mono/stereo 50-dB quieting sens 2.7/25  $\mu$ V; mono/stereo S/N ratio 76/70 dB at 1 kHz, 1 mV A-wtd; mono/stereo distortion 0.05%/0.10% stereo; capture ratio 2.5 dB; sel 53 dB; image/IF rejection 80/100 dB; frequency response 20-15,000 Hz  $\pm$  0/-1 dB; crosstalk 40 dB at 1 kHz; pilot-tone suppression 60 dB; deemphasis switchable for 50/75 microseconds; power consumption 6 volts; 321 x 207 x 64 mm; 3 kilograms. .... \$695

## RCA

### MPT200 Audio/Video Preamp Tuner

Dimensia A/V control center with unified remote control and on-screen status indication when used with Dimensia monitor lets you select inputs from up to 13 Dimensia components and 5 nonsystem components. Features automatic input selection; remote control volume, mute, direct access and station scan, and off/on; SystemLink cabling; simultaneous recording and playback; auto status indication; auto switching; quartz-PLL synthesis tuning; 20-station random tuning memory; preset channel scanning; FM search tuning; electronic volume control; signal processing loop; preset turn-on volume; fluorescent display; muting; bass, treble, and balance controls; 4 AC convenience outlets. Tuner section: FM sens 12.2 dBf; S/N 73 dB (mono); image rejection 45 dB; sel 60 dB; sep 40 dB at 1,000 Hz; capture ratio 1.5 dB; FM frequency response 30-15,000 Hz. 14.63 x 4.13 x 13.38 inches. .... \$339

## REALISTIC

### TM-150 AM/FM-Stereo Mini Tuner

PLL tuning; stereo/mono switch; FM stereo LED; illuminated tuning dial; built-in AM and FM antennas; built-in terminals for external FM antenna. 9 x 2.5 x 6 inches. .... \$60

## REVOX

### B260-S FM-Tuner

FM stereo tuner stores 60 preset stations with reception modes in non-volatile memory. allows user to arrange stored stations into separate groups for scanning. Features control prt; max S/N >80 dB; THD 0.07%; alternate channel selectivity; FR 20-15,000 Hz  $\pm$  0.5 dB; 17.2 x 4.3 x 13 in; 15.4 lb. .... \$2,500

**B160 FM-Tuner.** Similar to B260-S but stores up to 30 preset stations. .... \$1,575

### B250-S Tuner/Amplifier

6 inputs for tuner, tape 1 & 2, aux, CD, and phono MM; each input level is adjustable and storable in non-volatile memory. Optional video-switcher provides 4 video inputs for sound and picture; remote control. Preamp has 2 separate circuits to simultaneously listen/record from 2 different sources; 150 W/ch; THD <0.015%; S/N 80 dB; 17.7 x 4.3 x 13 in; 33 lb. .... \$2,500

**B150 Tuner/Amplifier.** Similar to B250-S but continuous average 60 W/ch. .... \$1,575

## ROTEL

### RT850A AM/FM Tuner

Quartz-synthesizer tuner with microprocessor circuitry. Features 6 AM/6 FM presets, manual and autoscanning tuning. FM section: usable sens mono 2  $\mu$ V (11.2 dBf), 50-dB quieting sens mono 3  $\mu$ V (14.6 dBf), stereo 40  $\mu$ V (37.2 dBf); THD stereo 0.2%, mono 0.08% at 1,000 Hz; S/N 73 dB stereo, 75 dB mono; FR 30-15,000 Hz  $\pm$  0, -2 dB; capture ratio 1.0 dB; sep 48 dB at 1,000 Hz; AM suppression 58 dB; AM section: sens 300  $\mu$ V/m; S/N 50 dB; 2.56 x 17 x 11.5-in; 8.5 lb. .... \$299

### RT830 AM/FM Analog Tuner

AM/FM stereo tuner with LED indicators for signal strength; muting switch. FM section: usable sens mono 2  $\mu$ V (11.2 dBf), 50-dB quieting sens mono 3.5  $\mu$ V (16 dBf), stereo 50  $\mu$ V (39.4 dBf); THD stereo 0.6%, mono 0.3% at 1,000 Hz; S/N 65 dB stereo, 70 dB mono; FR 35-13,000 Hz  $\pm$  1.5 dB; capture ratio 2 dB; sep 38 dB at 1,000 Hz; AM suppression 62 dB; AM section: sens 300  $\mu$ V/m; S/N 45 dB; 2.56 x 17 x 12.56-in; 6.8 lb. .... \$199

## SAE

### T101 AM/FM Stereo Tuner

Computer direct-line digital tuner. Features 16 station presets (8 AM/8 FM); auto and manual tuning; signal-strength, multipath, and level indicators; IF narrow; high blend; memory scan. FM Section: IHF sens stereo 3.9  $\mu$ V (17 dBf); 50-dB quieting sens stereo 32  $\mu$ V (35.3 dBf); THD stereo 0.08% at 1,000 Hz; S/N stereo 70 dB. FR 30-18,000 Hz  $\pm$  1, -2 dB; capture ratio 1.2 dB; sep 55 dB at 1,000 Hz; alt-ch rejection -100 dB narrow. .... \$650

### T102 AM/FM Stereo Tuner

Computer direct-line digital tuner with 16 station

## PRICES LISTED

are manufacturers' suggested retail prices  
(also referred to as *list* prices);  
actual selling prices are set by individual dealers.  
All prices are subject to change without notice.

# TUNERS

presets; auto and manual tuning; IF narrow; high blend. FM section: IHF sens stereo 4.1  $\mu$ V; 50-dB quieting sens 34  $\mu$ V; THD stereo 0.08% at 1,000 Hz; S/N 70 dB stereo; FR 30-18,000 Hz  $\pm$  1, -2 dB; capture ratio 1.2 dB; sep 55 dB at 1,000 Hz; alt-ch



rejection -100 dB narrow; adj-ch rejection -15 dB narrow. 19 x 3.5 x 12.5 in. . . . . \$349

## SANSUI

### TU-X701 AM/FM Tuner

Vintage series tuner featuring random presets for 30 FM and AM stations; numeric keypad for recall; programming two station frequencies for unattended recording; memory scan; RF mode selection; IF bandwidth selection; record calibrator; FM noise canceller; mode switch. Usable sen 38.0 dBf (stereo); THD 0.0095% (stereo); S/N 98 dB; IF response (at 84 MHz) 110 dB. 17.63 x 3.81 x 11.81 in; 10.4 lb \$500

### TU-X301 AM/FM Tuner

Vintage series tuner features digital-synthesis tuning; 6 AM/6 FM station presets; FM noise canceller circuit. 50 dB quieting sens 36 dBf (stereo), 16 dBf (mono); S/N 72 dB (stereo), 78 dB (mono); capture ratio 1 dB. 17.69 x 1.81 x 8.94 in; 5.3 lb. . . . . \$210

### T-1000 AM/FM Tuner

AM/FM stereo tuner with quartz-PLL synthesizer tuning. Features 16 station presets; high-blend circuitry; two FM tuning modes, one for strong signals, one for weak signals. 50 dB quieting sens 16.5 dBf; S/N 75 dB; capture ratio 1.5 dB. 3.6 x 17 x 9 in; 6 lb. . . . . \$145

## SHERWOOD

### TD-7010R Synthesizer Tuner

Quartz PLL synthesized tuning system. Features digital display; MOSFET front end; auto-tuning; 30-preset stations; preset scan switch; 10-segment signal-strength meter; hi-blend switch; FM mute switch; AM/FM reception; AM bar antenna; usable sens 9.8 dBf; 50 dB quieting sens 36.1 dBf; FR 10-15 Hz  $\pm$  3 dB; THD 0.25%; 50 dB stereo sep at 1 kHz; capture ratio 1.5 dB; alt-ch sel 70 dB; 3.2 x 17.3 x 8.7 in \$319

### TD-1120 Synthesizer Tuner

Quartz PLL synthesized tuning system. Features digital display; 24-preset stations; MOSFET front end; auto-tuning; AM/FM reception; AM loop antenna;

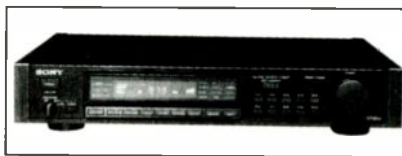


usable sens 11.2 dBf; 50 dB quieting sens 39.2 dBf; THD 0.4%; 45 dB stereo sep at 1 kHz; FR 10-15 Hz  $\pm$  3 dB; capture ratio 2 dB; alt-ch sel 60 dB. 3.2 x 17.3 x 8.7 in. . . . . \$169

## SONY

### ST-S730ES AM/FM Tuner

Features radial power-supply design; automatic microprocessor exclusion circuit master clock; SST super sound tracking; WOIF wave optimized IF system; WODD wave optimized direct detector; WODSD wave optimized digital stereo decoder; direct comparator circuitry. S/N 92 dB stereo, 100 dB mono; THD



0.0075% stereo, 0.004% mono; sens 10.3 dBf/0.9  $\mu$ V; sel (at 400 kHz) 70 dB; sep (at 1 kHz) 70 dB. 3.38 x 18.5 x 14.75 in; 12 lb. 6 oz. . . . . \$550

### ST-S500ES AM/FM Tuner

Features quartz frequency-synthesis tuning; WODD wave optimized direct PLL detector with low distortion and noise; WODSD wave optimized digital stereo decoder; direct comparator circuitry; 10 AM/FM station presets; multi-process memory to remember various station settings for each preset; calibration tone presets for off-air taping. S/N 84 dB stereo; FR 15-15,000 Hz  $\pm$  0.2, -0.5 dB; sel 55 dB narrow, 90 dB wide. 17 x 3.38 x 13.62 in; 9 lb. . . . . \$300

## SOUNDCRAFTSMEN

### Pro-Tuner Four AM/FM Stereo Digital Tuner

Digital quartz-PLL tuner with 16 station presets, 5-digit station readout, auto scan tuning, and active high-blend filter. 19" rack-mount front panel. IHF sens 1.6  $\mu$ V; S/N 75 dB; distortion 0.08%. 2.36 x 19 x 12 in. . . . . \$349

## SUMO

### Aurora Slimline Tuner

Digital AM/FM tuner. Features auto seek forward/reverse; rotary tuning knob; 8 presets for both AM/FM; dynamic impulse noise reduction system; linear-phase IF filters; gold-plated output jacks; sens 11 dBf; alternate ch selectivity 75 dB; sep at 1,000 Hz 50 dB; S/N 82 dB; 19 x 8.75 x 1.75 in. . . . . \$649

## TANDBERG

### TPT 3001A Programmable FM Tuner

Features computer-type logic servo tuning system; 8-ganged varactor tuning diodes in front end, dual-gate MOSFET's in R-F and mixer stages; 8-station memory preset with touch-button recall and LED program readout; wide/normal/narrow IF bandwidth selector; autorange signal-strength with 1,000-meter-range LED, center tuning/preset frequency meters. Audio circuitry includes selected all-metal film resistors, polypropylene capacitors, and min negative feedback; mono, ANC, servo, mute switches with LED's; 3-circuit muting; output level control; S/N 90 dB; narrow sel 125 dB. Rosewood side panels optional. . . . . \$2,000

### TPT 3031A Programmable FM Tuner

Remote controlled tuner with 4 ganged diodes; dual gate MOSFET's in RF stage; 16 station preset; manual/



auto tuning; zero-negative-feedback audio section. Remote control and rosewood side panels optional. 17.13 x 3.25 x 13.75 in; 11 lb. . . . . \$1,200

## TECHNICS

### ST-G70 AM/FM Tuner

Stereo tuner with 39 AM/FM station presets. Features twin tuner design; automatic IF band width selection;

10-key random access; class AA operation; auto-scan; automatic preset assignment capability; FM signal-strength display; DC twin quartz circuitry; DC linear switching multiplex filter. . . . . \$380

### ST-G450 Digital AM/FM Tuner

Digital AM/FM tuner with 24-station presets. Features preset channel scan; 10-key direct access; class AA operation; FL display; 3-point LED signal-strength indicator. . . . . \$270

## TOSHIBA

### ST-5528 AM/FM Stereo Tuner

Features digital display; 16 station presets; preset memory recall; preset scan; automatic digital tuning lock-in for each available station; system remote control. . . . . \$170

## VECTOR RESEARCH

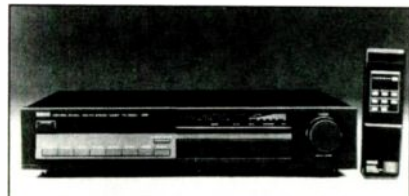
### VU-1500 Tuner

Quartz PLL-synthesized tuner. FM section: alt-ch sel 60 dB; 50-dB quieting sens mono 3  $\mu$ V (10 dBf); 50-dB quieting sens stereo 40  $\mu$ V (37 dBf); max S/N A-wtd, mono 75 dB, stereo 73 dB; THD mono 0.08%; stereo 0.2%. 8.5 lb; 17 x 3 x 12.5 in. . . . . \$200

## YAMAHA

### TX-1000U AM/FM Digital Tuner

Digital AM/FM stereo tuner with computer servo lock tuning. Features digital fine tuning; absolute linear phase IF amplifier "Alpha" circuitry for 90 dB channel selectivity; 2-position IF mode selector; 4



tuning modes; antenna selector switch; 24-station random access memory presets; multi-status memory; 4-letter station name display; 24-segment signal quality meter; remote control; optical integrated system remote compatible. . . . . \$549

### TX-900U AM/FM Digital Tuner

Features integrated system remote compatibility; digital fine tuning; 3-position auto/manual IF mode selector; 20-station random access preset tuning; 4-way station memory; high blend; integrated multi-function LCD display. Black; 9 lb. . . . . \$399

### TX-500U AM/FM Digital Tuner

Features integrated system remote compatibility; direct PLL IF count synthesizer tuning; 2-position IF mode selector; 20-station random access preset tuning; 4-way station memory; high blend; integrated multi-function LCD display. Black; 9 lb. . . . . \$319

### TX-400U AM/FM Digital Tuner

Features integrated system remote compatibility; direct PLL synthesizer tuning; 16-station random access preset tuning; integrated multi-function LCD display; auto-search tuning; manual up/down tuning. Black; 7 lb. . . . . \$249

The listings are based on data provided by the manufacturers. For more product information, contact an authorized dealer or the manufacturer directly. Manufacturers' addresses and phone numbers are listed in the directory beginning on page 217.



# "If I Had It To Do All Over Again... And I Do...This Is How I'd Do It."

"Henry Kloss. Member of the Audio Hall of Fame. Creator of Acoustic Research in the 1950's, KLH in the 1960's, and Advent in the 1970's—the dominant speakers of their decades—now brings you Ensemble: the best-sounding speaker system of this era."

## Ensemble. By Henry Kloss.

Ensemble is the first of a new generation of stereo loudspeaker systems. It combines two bass units, two mid- to high-frequency satellite units and something you won't find in any hi-fi store on earth:

Your living room. Which now, because of Ensemble's unique "double-dedicated" design, becomes a totally integrated part of the sound propagation process giving you perfectly balanced energy throughout the full ten octaves of music.

## The first speaker system that doesn't cheat you out of either bass or space.

The fundamental octaves that so much of music is built on...

The almost subaudible but palpable sounds generated by the big pipes of the organ, the bottom of the acoustic or electric bass, the low notes of the synth...

The frequencies completely ignored in the so-called "mini-speakers" now in vogue...

Ensemble provides them. With two dedicated, acoustic-suspension loudspeakers whose jobs are solely to reproduce the bottom two octaves of musical significance.

At a compact 12"x21"x4.5" they're small enough to be placed where they'll produce the best sound, minimizing "standing waves"; and without visually overpowering your room.

Beneath the couch, on top of the bookshelf, or under the potted plant... wherever the ear dictates, they'll be unoffended.

## As for the other 8 octaves of music.

The rest of the sound spectrum, from a nominal crossover of 140 Hz, is reproduced by a stereo pair of two-way satellite units. Each incorporates a low-frequency driver, crossing over at 2,700 Hz to a direct-radiator tweeter that goes beyond audibility.

They are small enough (4"x5"x8" high) to set the sound stage wherever you want it. Finished in scratch-proof, gunmetal grey Nextel, they will look good for a lifetime.



## What Henry Kloss tells his friends:

Every time I came out with a new speaker at AR, KLH, or Advent, my friends would ask me, "Henry, is it worth the extra money for me to trade up?" And every time I would answer, "No, what you've already got is still good enough."

But today, with the introduction of Ensemble, I tell them, "Perhaps now is the time to give your old speakers to the children!"

## Overcoming the fear of paying too little.

This is more difficult than it may sound. Because the Ensemble System sells for an introductory price of only \$499. And it can be jarring to accept the notion that a product actually outperforms others costing several times more.

The second thing you must overcome is the misdirected notion that you must go to a dealer showroom and listen to the speakers.

Because the fact is, the only way to appreciate the astonishing sound reproduction of this unconventional system is to audition it in your own room environment. Therefore, we sell direct to you, not to dealers.

By phone, by mail, or by our front door. With a straightforward 30-day money-back return policy.

*There is a wager you can make, if you don't mind taking money from house guests.*

*Place Ensemble's satellites where they're visible. Then hide one of the bass units under the sofa, and put the other on the floor with a plant on it. When your friends arrive, bet them to point out where the bass is coming from. They'll point to the satellites. Every time.*

## Speaking directly to the people who make the speaker.

To our knowledge, no other hi-fi manufacturer invites you to call, talk about, and buy the system. ("Hello, Mr. Sony?" Try that.)

In fact, the easiest way to buy Ensemble is to call us with your credit card in hand, and speak with an expert who will be happy to walk you through everything you want to know about the system. For literature, for information—or to order—the toll-free

number is 1-800-252-4434, Mon.-Thurs., 9-9, Fri. and Sat., 9-6 Eastern Time. (In Canada, 1-800-525-4434.) Fax # (617) 332-9229.

*The Ensemble Stereo System: 2 bass units, 2 satellites, 100 feet of wire, mounting units, intelligent documentation, and a warm body. (Your Cambridge SoundWorks audio expert.)*



## CAMBRIDGE SOUNDWORKS

154 California St., Newton, Massachusetts 02158

- Send more information  
 Send Ensemble risk-free for 30 days, for \$499.\*  
 I'm paying by  Check  MC  Visa  AmEx

Acct. Number \_\_\_\_\_ Exp. \_\_\_\_\_

Signature \_\_\_\_\_

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone (Area Code) \_\_\_\_\_ Number \_\_\_\_\_

FOR IMMEDIATE SERVICE: 1-800-AKA-HIFI  
 MA residents add 5% sales tax.

\* Plus freight. Call and ask.

Suite 102

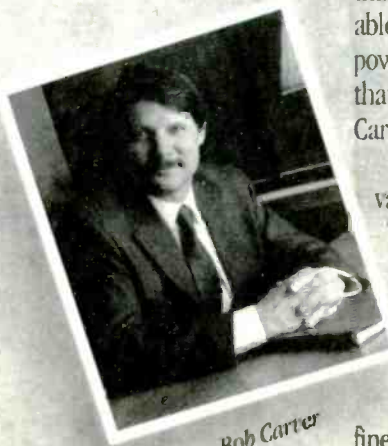


“Because I wanted to have the world’s finest amplifier and the world’s greatest transfer function, I built the astonishing Silver Seven.”

*The Silver Seven, finest power amplifier in the world. \$8,750 each. Two required for stereo. Tube counters note: The 15th KT88/6550A is a voltage regulator.*



*Before you meet the new M-4.0i, Bob Carver wants you to meet its inspiration, the money-is-no-object Silver Seven.*



*Bob Carver*

“One of my important design precepts is that power amplifiers should be easily affordable but last year, when I began designing a powerful new amplifier, I temporarily set aside that precept of affordability. The result is the Carver Silver Seven Mono Power Amplifier.”

Destined to redefine ultra-high-end values forever, the Silver Seven is truly a “money-is-no-object” design. In fact, just a single pair of its fourteen KT88/6550A Beam Power output tubes cost more than some budget amplifiers.

The Silver Seven employs classic, fully balanced circuit topology and the finest components in existence.

A-450 Ultra Linear output transformers with oxygen-free primary leads and pure silver secondaries.

- *Wonder Cap capacitors throughout.*
- *Interconnects are Van den Hul Silver.*
- *Internal wiring is pure silver.*
- *Wonder Solder throughout.*
- *Gold input connectors and high current gold output connectors.*

The Silver Seven’s polished granite anti-vibration base floats on four Simm’s vibration dampers. The separate power supply’s power transformer end-bells are machined from a solid block of high-density aluminum.

Capable of an astonishing 390 joules energy storage, the Silver Seven delivers *a conservatively rated 375 watts into 8 ohms from 20Hz to 20kHz with no more than 0.5% distortion.* On the 1-ohm tap, peak current is in excess of 35 amps!

Sonically, a pair (for stereo) of the flawless Silver Sevens almost defies description.

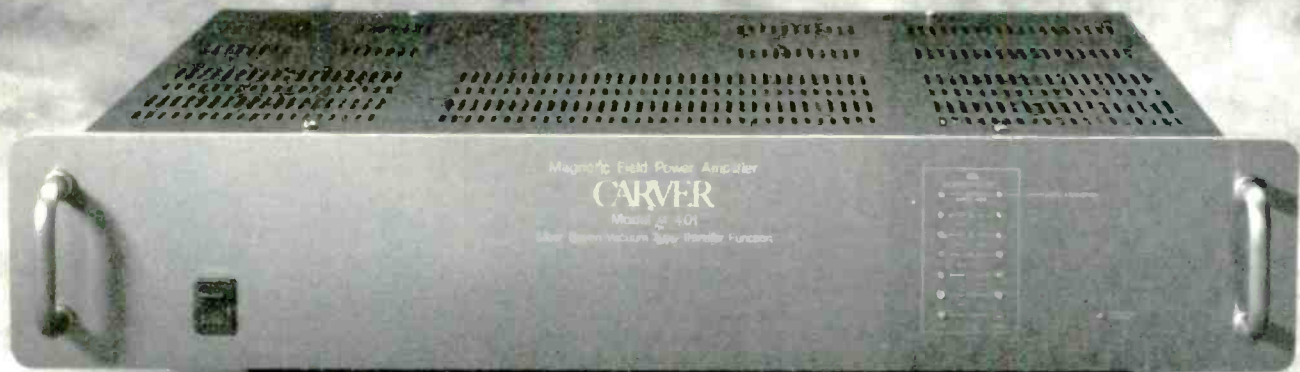
*Powerful*

Distributed in Canada by: *evolution technology*



# "Because I wanted to share its magnificent sound with you we built the new Carver M-4.0t."

The M-4.0t, identical transfer function and 375 watts rms/ch. at 8 ohms 20-20kHz with no more than 0.5% thd. Total maximum output current is 60 amperes.



Superlatives are insufficient.

*What does this have to do with the new M-4.0t?*

Everything. Because the M-4.0t precisely duplicates the transfer function of the Silver Seven.

Ever wondered why two amplifiers of identical wattage can sound different? Or why two designs with different output ratings can sound much the same? In many cases, it's because each power amplifier exhibits a unique relationship between its input and output signals. Like human fingerprints, this *transfer function* is subtly distinct, defining much of the sonic character of the design. Bob has not only perfected the art of measuring an amplifier's transfer function, but is able to duplicate it in a completely dissimilar amplifier design! That's how he invested his solid state M-1.0t with the

transfer function of a set of \$5000 esoteric tube amps several years ago.

This time he's gone one better. Or two.

He's used this powerful scientific method to duplicate the transfer function of the Silver Seven in the new M-4.0t (now you know what the "t" signifies). Mind you, we are not saying the M-4.0t is *identical* to a pair of Silver Sevens. An M-4.0t weighs 23 pounds versus the Silver Seven at 300 pounds a pair. The Silver Seven stores 390 joules of energy while the M-4.0t stores none. As a Magnetic Field Power Amplifier the M-4.0t instantly draws the power it needs directly from the AC line.

Though in choosing the M-4.0t you may miss the warm glow of the Silver Seven's silver tipped vacuum tubes reflecting in polished black lacquer, be assured both amplifiers are the most musical, effortless, and open sounding you have

ever heard. Bass is full and tight, midrange is detailed, treble is pure and transparent.

Each can float a full symphony orchestra across the hemisphere of your living room with striking realism.

Bob Carver developed this incredible design for one reason: to bring you the best the world has to offer and the best amplifier value ever, and he has succeeded handsomely.

Listen to the new, incredibly affordable M-4.0t at your nearest Carver dealer. Or write us for more information. We'll even send you data on the Silver Seven. After all, if you ever want to move up from the M-4.0t, there's only one possible alternative.

## CARVER

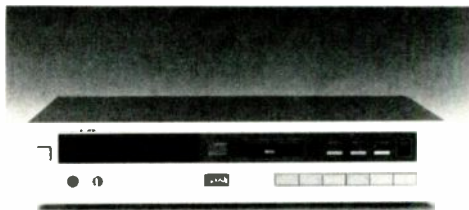
Musical

Accurate

CIRCLE NO. 3 ON READER SERVICE CARD

P.O. Box 1237, Lynnwood, WA 98046

# COMPACT DISC PLAYERS



## ACCUPHASE BY MADRIGAL

### DP-80/DC-81 Two-Part CD Player

DP-80 transport plays discs and DC-81 digital processor converts digital signals to analog; optical fiber cable. DP-80 features 1 master clock; linear motor laser pickup; <1-sec selection time; ceramic-resin mounting floated from chassis; play, search, pause, skip back, fast forward, fast reverse, repeat disc or phrase; cues by track number; displays current track number. DC-81 features D/A converter with discrete elements; wideband optical-fiber inputs; 16-bit digital signal and deglitch signal for each ch input to D/A converter through 17 optoisolators; 121-stage double-oversampling digital filter per ch; 9-pole GIC Butterworth active filters; directly coupled 0-dB gain buffer amp as output stage; de-emphasis circuit consisting of passive elements and buffer amp; independent power transformer for each digital and analog circuit; fixed- and variable-level audio output; XLR-type balanced output; connects to other CD players with 75-ohm coaxial-cable terminal. \$8,750

### DP-70 Remote-Controlled CD Player

Play, track search, pause on front panel; number keypad, stop, repeat (all, 1, phrase), index search, display (track and index or time), scan, and output-level controls behind panel; fixed and variable RCA outputs; XLR balanced output; 75-ohm coaxial cable output; optional wide-band optical-fiber output; digital output pins; track selection in <1 sec with linear motor; 4-times oversampling (176.4 kHz) digital filters; discrete digital-to-analog converter; 5-pole GIC Butterworth low-pass filters; isolating optocouplers; independent power supply for digital and analog circuits; 4 optocouplers input digital data, latch clock signal, deglitch signal to D/A converter; directly coupled 0-dB-gain buffer amp as output stage with push-pull DC servo direct coupling; metal shielding; passive elements and buffer amp in de-emphasis circuit; ceramic composite resin floating mounting; legs lathed from pure brass bar; hairline-finish golden panel and natural permision side-board; infrared remote needs 2 AA batteries. Pass-band ripple of digital filters  $\pm 0.00005$  dB with attenuation of <100 dB; 46.4 lb. \$6,000

## ACOUSTIC RESEARCH

### CD-06 CD Player

16 bit, 4x oversampling CD player. Computer driven laser swing arm; dual digital to analog converters



(analog circuitry employs a Gaussian filter for elimination of filter delay); random access programming of up to 20 tracks in any order; scanning, play, pause and volume control can be performed by remote control. Fixed level and remote variable audio outputs as well as digital output. FR 4-20,000 Hz  $\pm 0.5$  dB; THD 0.007%; S/N 105 dB. \$749

## ADC

### CD 16/2R CD Player

Slide-drawer-loading CD player with full-function remote control and advanced error-processing circuitry. Features random 16-track programming; skip forward; skip back; fast forward; fast reverse; repeat track, disc, or program; 7-pole (7th-order) analog filtering; 3-beam laser; displays track number, elapsed time of track, remaining time on disc, and program in memory. 3.12 x 17.0 x 11.75 in. \$250

## ADCOM

### GCD-575 CD Player

Dual digital-to-analog, 16 bit linear converters. Selectable Analog Frequency/Phase Contouring circuitry, fixed and variable outputs, triple beam laser, plays 3" CD's. Programs up to 24 tracks in any sequence; repeats disc, track, program or any selected sequence or phrase; audible fast scan and fast forward. Displays, simultaneously total tracks up to 20, track being played, programmed tracks, tracks to be played. Timer display. Remote transmitter. FR 5-20,000 Hz  $\pm 0.1$ , -0.5 dB; S/N 105 dB; THD 0.0025%; ch sep 95 dB; IMD (SMPTE) 0.0015%; 3.44 x 17 x 11.25-in; 12 lb; black. \$600  
GCD-575, white. \$650

## a/d/s/

### Atelier CD3 CD Player

Programs 30 tracks in any order; sound audible during fast forward and fast reverse; skip forward; skip back; fast forward; fast reverse; cancel; repeat track, disc, phrase, program; headphone jack with adjustable level; digital filtering (resampling frequency 88.2 kHz); 3-beam laser. Displays current track number, elapsed time of current track, remaining time on disc, program in memory. Cues by track number, index number. Max line output 2 V; headphone output 2 V. Optional remote control. 20 lb; 2.75 x 17.5 x 14.8 in. \$1,200

### Atelier CD4 Compact Disc Player

Cast laser and transport assembly shock mounted with rubber isolators, aluminum and steel chassis/housing, and multiple power supplies to isolate digital and analog stages for minimum interaction and noise generation. Servo-laser intensity system switches focus intensity depending on quality of disc to maximize performance. Brick-wall digital filter works in conjunction with advanced multiple-pole low-pass filter. Error correction uses variable-size window; 16-bit D/A converters; fast-focus 3-beam laser; programming of 16 tracks in random order; repeat disc, track, phrase, or program; random access by time within a track; access by index point; audible fast search. Displays elapsed time from track start, remaining time to disc end, track/program selection number, index, program in memory. \$1,000

### RC1 Unified Remote Control

Infrared wireless remote control for CD3, CD4, and other Atelier components. \$150

## AIWA

### DX-PI Portable CD Player

3 beam laser CD with adaptor to play 3-inch discs as

well as standard size CD's. AC/DC operation; line out terminal and headphone jack. Compatible with AA batteries for 4.5 hours of operation. FR 20-20,000 Hz



$\pm 2$  dB; S/N 75 dB; THD 0.15%. Package includes: battery case, AC adaptor, carrying strap, and Y output cable. \$250

## AKAI

### CD-93-B CD Player

3-beam laser pick-up w/linear motor; 18 bits 4x oversampling; digital filter; dual D/A converters; diecast chassis and diecast disc tray; 20-track random programming; FL calendar display; 31 function remote; digital out (optical/coaxial) w/wood side panels; separate power transformers for digital and analog. \$1,099

### CD-73-B CD Player

3-beam laser pick-up w/linear motor; 18 bits 4x oversampling; digital filter; dual D/A converters; 20-track random programming; FL calendar display; 31 function remote; digital out (optical/coaxial); resonance free rigid chassis structure. \$799

### CD-52-B CD Player

3-beam laser; 22 function remote; 4x oversampling; digital filter; dual D/A converters; 20 track random programming; FL calendar display; digital output; index search; auto space play; A-B repeat; headphone volume. \$379

### CD-32-B CD Player

3-beam laser; 21 function remote; 2x oversampling; digital filter; 20-track random programming; FL display; digital output; index search; repeat; headphone volume; anti-resonant chassis. \$329

### CD-22-B CD Player

3-beam laser; 21 function remote; 2x oversampling; digital filter; 20 track random programming; digital out; index search; repeat; headphone volume. \$279

## ANALOGIC DESIGN GROUP

### NX Series Vacuum Tube Hybrid CD

Drawer loading CD player with wireless remote control. Features opamps for current/voltage conversion; hybrid analog stages; vacuum tubes for active filtering and final outputs; isolated power supply and transport damping; 20 track random programming; track skip; 3 speed audible fast search; repeat disc-



# COMPACT DISC PLAYERS

track-program; 4 times oversampling; 16 bit processing; 2 D/A converters; cues by track and index; display indicates current track number, elapsed time of current track. FR 10-20,000 Hz  $\pm$  0.5 dB; S/N 100 dB; THD 0.09% at 0 dB; 3.5 x 19 x 11-in. .... \$1,495

## NX Series FET Hybrid CD

Drawer loading CD player with FET output/analog filtering circuitry. Features hybrid analog stage; opamps for voltage conversion and FET output circuitry; direct coupled DC servo'd; decoupled/isolated analog and digital power supply stages; track skip 3 speed audible track search; repeat disc-track-program; 4 times oversampling; 2 D/A converters; 16 bit processing. Display indicates current track number, elapsed time of current track. FR 17-19,000 Hz  $\pm$  0.75 dB; S/N 102 dB A-wtd; THD 0.01% .... \$895  
With infrared remote control ..... \$995

## ARCAM

### Arcam Delta 70 CD Player

CD player features 16-bit D/A converters; quadruple oversampling; 20-track programming; 3-speed search; track skip; optional remote; direct/variable audio outputs; headphone socket; digital output socket; FR 10-10,000  $\pm$  0.1 dB; S/N ratio 105 dB; dynamic range 96 dB. 16.93 x 10.63 x 3.54 in. \$999

## AUDIO BY VAN ALSTINE

### Transcendence FET-Valve CD Player

Drawer-loading CD player with class-A compound hybrid vacuum tube and power MOSFET filter driver circuits. Features toroidal power transformer; regulated heater supply; 16-bit, quadruple-oversampling digital filter; calibrated dual digital filters; exact-channel phase-gain tracking; 20-track programming; repeat; shuffle play; time and track display; 3-speed music search with cueing; CD-single compatibility; wireless remote control. 16.5 x 11 x 3 in; 12 lb \$1,195

### FET-Three-Plus CD Player

Drawer-loading CD player with custom hybrid module output stages and film coupling capacitors. Filter drivers have 1/2-amp current drive at 200 V/ $\mu$ sec. Player features 16-bit, 4-times oversampling with dual digital filters and exact channel phase-gain tracking. Other features include 20-track (and index number) programming with repeat, skip forward, skip back, and time and track display. Infrared remote control optional. 16.5 x 11.5 x 3 in; 9 lb \$495

### FET-Three CD Player

Drawer-loading CD player with fast (30 V/ $\mu$ sec) overload immune integrated circuit audio stages, and film coupling capacitors. Player features 16-bit, 4-times oversampling with dual digital filters and exact channel phase-gain tracking. Other features include 20-track (and index number) programming with repeat, skip forward, skip back, and time and track display. Infrared remote control optional. 16.5 x 11.5 x 3 in; 9 lb. .... \$295

## AUDIO DYNAMICS

### CD-2000E CD Player

Slide-drawer-loading CD player with full-function remote control and advanced error-processing circuitry. Features 3-beam laser pickup; 16-track random programming; 16-bit D/A converter with quadruple-oversampling digital filter; CD-single compatible. FR 10-20,000 Hz  $\pm$  0.5 dB; THD 0.005% at 1,000 Hz; dynamic range 96 dB; ch sep 90 dB; S/N 96 dB. 17 x 2 x 12.63 in; 8 lb, 3 oz. .... \$399

### CD-1000E CD Player

Slide-drawer-loading CD player with full-function remote control and advanced error-processing circuitry. Features random 16-track programming; 16-bit linear D/A converter; skip forward; skip back; fast forward; fast reverse; repeat track, disc, or program; 7-pole (7th-order) analog filtering; 3-beam laser; FR

20-20,000 Hz  $\pm$  0.5 dB; THD 0.005%; S/N 96 dB; displays current track number, elapsed time of current track, remaining time on disc, and program in memory. 3.5 x 17.0 x 11.75 in; 10 lb ..... \$250

## BANG & OLUFSEN

### Beogram 5500 Programmable CD Player

Integrates with Beosystem 5500; programs 20 tracks; adds time of programmed tracks; displays time remaining on disc; skip forward and back; 3-speed forward and reverse; direct access by track number; intro scan; 16-bit quadruple oversampling; Bessel elliptical analog filters; auto space; silver and black; controlled by Master Control Panel (comes with Beomaster 5500 receiver); 2 D/A converters; separate power supplies for digital and analog sections; digital output. 16.5 x 3 x 12.75 in. .... \$1,100

### Beogram 3300 Remote-Controlled CD Player

Communicates with other Beosystem 3300 components (stops when cassette deck comes to end of tape; deck stops when disc ends); front panel displays operating status; sensi-touch controls; display of track number, index number, track time, time left on disc; skip forward and back; 4-sec auto space; optional bracketed shelf for wall mounting; 16-bit, quadruple oversampling digital filter. 16.5 x 3 x 12.25 in. .... \$765

### Beogram CDX Top-Loading CD Player

Skip forward and back; clear key cancels unwanted tracks or cancels program; quadruple oversampling; search without program audible; digital and analog filters; displays track numbers (up to 20), programmed tracks, elapsed time of track or disc, current track and index number; programs 40 tracks in any order; repeats disc or program up to 4 times; 14-bit digital-to-analog conversion; integral output cable. 16.5 x 3 x 12.25 in; 12.4 lb ..... \$765

## CAMBRIDGE AUDIO

### CD1 Series II CD Player

32 bit, 16 times oversampling player with 64k of error correction. Features include volume and digital polarity inversion from a comprehensive remote handset. Lead beam suspension system. Rosewood side cheeks ..... \$4,000

### CD2 S CD Player

16 bit, 16 times oversampling player with 64k of error correction. No analog stages. Full remote facilities and rosewood side cheeks ..... \$2,500

### CD2 CD Player

16 bit, 16 times oversampling player with 64k of error correction. No analog stages. THD 0.0025%, dynamic range > 100 dB. .... \$1,700

## CARVER

### DTL-200 Mk II Remote-Controlled CD Player

With 3-beam laser and Digital Time Lens circuitry to change frequency balance and ratio of L-R and L+R. Programs 12 tracks in any order, 99 in sequential order; skip forward; skip back; fast forward; fast reverse; cancel; repeat track, disc, phrase, and program; 24-function remote control; quadruple oversampling (at 176.4 kHz); error indication; dual D/A converters. Cues by track and index number. Displays current track number, elapsed time of current track, elapsed time on disc, remaining time on disc, program in memory. Sound audible during fast forward and reverse ..... \$720

## CITIZEN

### CBM-3000 Portable CD Player

Portable CD player with optional FM transmitter and remote control keypad. Features 16-track random access programming; double oversampling; 3-beam laser; 16-bit D/A converter; special anti-shock

circuit; headphone jack; line-out jack; DC plug-in; remote jack for optional remote sensor; controls include play/pause, stop/clear, forward/reverse track skip, fast forward, reverse, headphone level volume, and power switch; intro scan/A-B; memory enter/repeat; memory/keylock; LCD displays total number of tracks, total playing time of disc, track in play, elapsed playing time, and A-B repeat. Optional FM transmitter and remote control. Comes with AC adaptor, battery recharger, soft carrying case and connection cord ..... \$330

### CBM-2000 Portable CD Player

Portable CD player with anti-shock circuit that pauses after shock, then automatically resumes play at point on disc where disrupted. Features 16-track random programming; stop; memory clear; memory back-up; skip forward/back; repeat track; auto shut-off; headphone jack with adjustable output and audio level; inputs/outputs for DC plug, headphone jack; line-out jack; AC adaptor/charger; earbuds; carrying belt; patch cord; rechargeable battery pack. FR 5-20,000 Hz; THD 0.07% at 1,000 Hz; S/N 92 dB \$300

### CBM-1000 Portable CD Player

Top-loading portable CD player with feather-touch control panel; 3-beam laser pickup; line in/out jack; line cord for connection with larger system; AC adaptor; battery cradle; earbuds; 16-track programming; controls include repeat, fast forward/reverse, audio scan, memory; displays current track number, time remaining/elapsed; dynamic range 90 dB; FR 20-20,000 Hz; digital filter circuitry ..... \$250

### CBM-777 Portable CD Player

Features double-oversampling digital filter; 3-beam laser; 13 bit D/A converter; functions include play/pause, stop, forward/reverse, skip, fast forward/reverse, repeat, headphone level volume, power; AC adaptor; FR 20-20,000 Hz  $\pm$  1/-3 dB; THD 0.08%; 5.8 x 6.7 x 1.75 in. .... \$170

## dbx

### DX5 CD Player

Remote-controlled CD player with 3 processing circuits (compression, Digital Audio Impact Recovery [DAIR], and increased/decreased ambience), each independently bypassable. The compression control is for background listening, making car cassettes, and easier taping of CD's; DAIR adds impact to musical transients; ambience adds or subtracts left-right information in midrange and treble frequencies. Features programming of 16 tracks in any order; repeat track, disc, program, or A-B phrase; skip forward; skip back; audible fast forward and reverse; error LED to show disc correction; headphone jack with adjustable level; dual 16-bit D/A converters; advanced error processing; 2-band compressor; impact circuit. Displays track number, total tracks, elapsed time of track, disc time, and program stored in memory. Cues by track or index number. Oversamples at 176.4 kHz. 17.12 x 11.88 x 3.5 in. . \$699

## DENON

### DCD-3300 Compact Disc Player

Features double super-linear converter; quadruple oversampling digital filter; CALP filter; LC-OFC analog filter; twin power transformers; optical isolator; 5-independent power supplies; separated digital and analog circuits; BMC pickup chassis; digital-output terminal; optical digital output terminal; headphone jack; 20-track random programming; 10-key direct selection; index search; time search; repeat function; auto space; timer play; remote control; emphasis display; 8-digit FL display ..... \$1,700

### DCM-555 Compact Disc Player/Changer

6 CD magazine changer allows for up to 32 selection program play. Continuous playback of all 6 disc's; full random play; program random play; disc sequential random play; program random play; super linear

# COMPACT DISC PLAYERS

converter; real time D/A conversion; quadruple oversampling; full function remote control. FR 4-20,000 Hz; S/N 98 dB; THD 0.004%; 4.56 x 17.08 x 14.09; 13.25 lb ..... \$550

## DCD-910 CD Player

Features double super-linear converter; quadruple oversampling digital filter; pickup with floating suspension; variable analog output. Auto edit, auto space, and 20 selection music calendar; compatible with 3" CD's; 2 modes of random playback; program random play; FR 2-20,000 Hz; S/N 102 dB; THD .004%; remote control provided; Display track #, playing time, total tracks, total playing time total remaining time, index number; 4.05 x 17.08 x 12.40 ..... \$499

## DCD-810 CD Player

Features double super-linear converter; quadruple oversampling digital filter; auto-edit function; compatible with 3" CD's; random playback; program play ..... \$399

DCD-610 CD Player. Similar to above ..... \$300

## DISCRETE TECHNOLOGY

### LS I Mark III CD Player

Front-loading CD player with remote-controlled programming. Features FTS; digital output and headphone jacks; dual 16-bit D/A converters; quadruple-oversampling digital filter; CIRC; 1-beam laser; FR 20-20,000 Hz; dynamic range 120 dB; S/N 100 dB; ch sep 100 dB; THD .003%; IMD .0033%. 16.5 x 3.2 x 11.03 in; 6.8 lb ..... \$1,195

LS I Mark IV. As above with external power supply ..... \$1,495

## DUAL

### CD 5070 CD Player

CD player with 30-beam pickup. Features 16-bit D/A converter; double-oversampling digital filter; gold-plated connectors; 16-track random-access programming; 12-function remote control; headphone jack with adjustable level. FR 5-20,000 Hz; THD 0.006%; dynamic range >95 dB; S/N 94 dB (A wtd). 18.1 x 12.1 x 3.6 in; 10.5 lb ..... \$450

## EMERSON

### CDD 200R CD Player

Dual disc remote controlled CD player with 32 programmable tracks. Plays 2 discs without a magazine. Fast skip, random play. Repeats track, disc, program, phrase. Oversamples at 44.1 KHz; FR 15-20,000 Hz  $\pm$  1.5 dB; THD 0.03%; 3.9 x 16.5 x 11.8-in; 11 lb ..... \$400

### CD175R Remote-Controlled CD Player

Programs up to 15 tracks in any order; skip forward; skip back; 2-speed fast forward and reverse; index search; repeats disc, program, phrase; displays total tracks, total playing time, current track number, elapsed time; 3-beam laser; play and pause indicators. 2.8 x 17.1 x 4-in ..... \$350

CD165. Similar to CD170R except lacks remote control. .... \$300

## FISHER

### DAC195B/DAC197B CD Player

Compact disc changer with 5-disc capacity and 30 function wireless remote control. Features 3-beam laser pickup; double-oversampling digital filter; random playback; intro scan; individual motorized slide-loading trays; scan; skip; repeat disc, program, track, all discs; 32-track random programming; FL display of disc, track, track time, and time remaining; LED play/pause meter; program indicator; headphone jack with adjustable level. .... \$400

### AD728VB CD Player

CD player with 20-track random programming and 25-function wireless remote control. Features music

calendar; linear motor pickup drive; LCD display; 3-beam laser pickup; double-oversampling digital filter; automatic edit; forward and reverse scan and skip; headphone jack with adjustable volume. .... \$350

### AD724AB CD Player

CD player with 20-track random programming and 6-function wireless remote control. Features music calendar; linear motor pickup drive; LCD display; 3-beam laser pickup; double-oversampling digital filter; forward and reverse scan and skip; headphone jack with adjustable volume ..... \$300

## GE CONSUMER ELECTRONICS

### 3-7050 Portable CD System

CD system with cassette deck, AM/FM tuner, and speakers. Features LCD display with track, repeat, and memory; search; skip; pause; 8-track programming; Dolby B noise reduction; one-button synchro-dubbing from disc to tape; 5-band graphic equalizer; 2 4" woofers, 2 piezo tweeters; digital tape counter; cushion eject; 5-segment signal-strength/power meter; external mic jack; headphone jack. 25.8 x 10 x 6.3 in; 18 lb ..... \$400

### 3-7030 Portable CD System

CD system with cassette deck, AM/FM tuner, and speakers. Features LCD with track, disc rotation, and repeat indications; disc-to-tape synchro-record function; 3-band graphic equalizer; 2 4" woofers, 2 piezo tweeters; slide volume controls; automatic tape shutoff; direct off-air recording capability; automatic level control in record; variable level recording monitor; built-in mic; external mic jack; headphone jack. 22.8 x 5.6 x 6.5 inches; 11.4 pounds ..... \$315

## GOLDSTAR

### GCD-613 Programmable CD Player

Programs 9 tracks in any order; repeat disc and program; forward and reverse scan; displays total time, elapsed time, track number; digital and active filter. FR 5-20,000 Hz  $\pm$  1.5 dB; dynamic range >90 dB; S/N >90 dB at 1,000 Hz; output 2 V rms; THD 0.03%. 13.6 x 3.6 x 11 in; 8.8 lb ..... \$250

### GCD-64R CD Player

Features full-function remote control; shuffle play; 20-selection random memory programming; 3-beam laser pickup; linear skating loading system; automatic music search; automatic repeat capability; headphone jack; multi-function display shows elapsed time, total time, track number, repeat and memory ..... \$350

## HARMAN KARDON

### HD800 CD Player

CD player with 10-function wireless remote control. Features discrete analog output section; sample-and-hold processor; separate analog, digital, and transport power supplies; samples at 176.4 kHz; dual 16-bit linear converters; 3-beam pickup; 36-track programmable memory; audible 2-speed cue and review; displays track, elapsed time, program number, total number of tracks, total time, and time remaining; track and index search; headphone jack with adjustable level. .... \$529

### HD400 CD Player

CD player with 10-function wireless remote control. Features discrete analog output section; sample-and-hold processor; separate analog, digital, and transport power supplies; samples at 88.2 kHz; 3-beam pickup; 36-track programmable memory; audible 2-speed cue and review; displays track, elapsed time, program number, total number of tracks, total time, and time remaining; track and index search ..... \$399

### HD200 CD Player

CD player with discrete analog output section. Features sample-and-hold processor; separate ana-

log, digital, and transport power supplies; samples at 88.2 kHz; 3-beam pickup; 36-track programmable memory; audible 2-speed cue and review; displays track, elapsed time, program number, total number of tracks, and time remaining; 16-bit D/A converter; track and index search ..... \$329

## HITACHI

### DA005 CD Player

Direct PIT servo; 5-stage error correction; 121-band digital filter; programs 15 tracks in any order; skip forward and back; fast forward and reverse; cancel; repeat track, disc, phrase, program; cue by track; 28-function remote; headphone jack; adjustable headphone level; 3-beam laser; 1 D/A converter; displays current track number, elapsed time of current track, remaining time on disc; sound audible during fast scan; headphone output 2 V; 11 lb ..... \$550

### DAC-60 6-CD Changer

Magazines hold 6 discs or single disc; digital filtering; programs 32 tracks from unit or remote; repeats all 6 discs; random play; 2-speed audible search in forward and reverse; headphone jack with level control; displays disc number, track number, elapsed time of disc, total playing time, number of tracks on disc ..... \$399

### DA-8200 CD Player

Drawer loading; three-beam laser; 24 selection random memory; random play; 2-times oversampling digital filter; 4-way selection repeat; vibration free floating suspension system; skip forward/back; fast forward/back; repeat track, disc, phrase, program; cue by track number; cue by index number; headphone jack; digital filtering; single D/A converter; display track number, elapsed time, program in memory; sound audible in fast scan; 15.75 x 3.25 x 10.75 in; 7.5 lb ..... \$249

### DA-C70CW CD Player

12 disc (6 disc x 2) changer; 3-beam laser; 41 function remote; independent disc exchange; 3 play modes; built-in timer; resume play function; oversampling digital filter; magazine loading; skip forward/back; fast forward/back; repeat track, disc, program; cue by track number; cue by index number; headphone jack; adjustable headphone level; digital filtering; single D/A converter; display of current track number, elapsed time, program in memory; sound audible in fast scan; 15.75 x 5.13 x 12.5 in ..... \$449

*The following models all have 3-beam laser, self-program search, index search, and random play.*

### DA-009 CD Player

10-key direct random access; Roulette Play begins sequential play with random tracks; programs 24 tracks; 5-way repeat; skip; 2-speed search; display shows programmed tracks; 121-step digital filtering; low-vibration pickup ..... \$300

## JVC

### CD Players

#### XLZ555BK CD Player

CD player with quadruple-oversampling digital filter. Features twin high-speed D/A converters; optical digital output; coaxial digital output; double-floating independent suspension system; disc/track title indication; 3" CD compatible; auto/multi-disc editing key; 5-way repeat with A/B; index play; skip; search; auto/manual search; 3-beam laser pickup; Optical noise reduction; remote control with volume control and numeric keypad; random access programming of up to 32 tracks; random play; intro scan; headphone jack with adjustable level; FL display; 2 analog outputs; disc title memory ..... \$490

#### XLZ444BK CD Player

CD player with coaxial digital output. Features auto-



# COMPACT DISC PLAYERS

editing key; quadruple-oversampling digital filter; dual high-speed D/A converters; Opticalink noise reduction; 3" CD capability; auto/manual search; headphone jack with adjustable level; FL display; 3-beam laser pickup; independent suspension system; remote control with numeric keypad; 32-track random-access programming; random play; intro scan; 5-way repeat with A/B. . . . . \$330

## XLV222BK CD Player

CD player with auto/manual editing key. Features multi-function FL display; 3-beam laser pickup; independent suspension system; repeat track, disc, and program; auto/manual search; headphone jack; double-oversampling digital filter; 3" CD capability; 32-track random-access programming. . . . . \$255

## CD Changers

### XL M600BK CD Changer

CD changer with 6-disc magazine section and auto-loading single-play drawer. Features magazine/disc title indication with message and program memory; repeat all tracks, single track, and programmed tracks; random play; auto/manual search; multi-function FL display; timer play; 3-beam laser pickup; independent suspension system; remote control with numeric keypad; 32-track programming; headphone jack; double-oversampling digital filter. . . . . \$560

### XL M400BK CD Changer

CD Changer with 6-disc capacity and wireless remote control. Features 3-beam laser pickup; double-oversampling digital filter; independent suspension system; 32-track random-access programming; random play; repeat all, program, and track; random play; auto/manual search; multi-function FL display; 6-disc magazine. . . . . \$430  
 XL M300BK. As above, no remote control. . . . . \$380

## Portable CD Player

### RC-X3 Portable CD System

Combination CD player, AM/FM stereo tuner, double autoreverse cassette deck, amplification, and speakers. Features CD synchro-start recording; continuous record; high-speed tape-to-tape dubbing; 2 4.75" full-range speakers; 3-beam laser pickup; 22-track random access programming; CD repeat play; CD intro scan; CD search; CD, mic, and headphone outputs; automatic record level with variable monitor. . . . . \$330

## KENWOOD

### DP-3300D CD Player

Basic series CD player with full-function wireless remote control. Features optical interface with KA-3300D amplifier; coaxial digital output; pure digital output switch; twin high-speed ladder network 16-bit D/A converters with FET input; quadruple oversampling digital filters; 7-pole Butterworth FDNR analog low-pass filter; high-rigidity and multi-insulation; independent power supplies; Optimum Servo Control Type III; 3-beam laser; rapid direct-play system; 4 play modes; 6-mode real time display; 20-track random program memory; A-B section repeat; music skip; index search key; audible manual search; auto spacing; repeat; music calendar display; auto open switch; auto loading; headphone jack with level control; phase inverter switch. THD 0.001%, dynamic range 97 dB, sep 115 dB, S/N 105 dB (all at 1,000 Hz). 17.31 x 4.31 x 12.44 in; 22.1 lb. . . . . \$885

### DP-990SG CD Player

Basic series CD player with full-function wireless remote control. Features high-rigidity mechanism; multi-insulation system; 16-bit integrator D/A converter with constant-current drive; double oversampling digital filter; discrete 7-pole Butterworth low-pass filters; independent power supplies and optimum ground pattern; Optimum Servo Control Type III; 3-beam laser; rapid direct-play system; 4 play modes; dual time display; 20-track random

program memory; A-B section repeat; music skip; track search; audible manual search; auto spacing; repeat; auto loading; headphone jack with level control. THD 0.002%, dynamic range 96 dB, sep 98 dB, S/N 98 dB (all at 1,000 Hz). 17.31 x 3.69 x 12.31 in; 11 lb. . . . . \$685

### DP-880SG CD Player

CD player with wireless remote control. Features 20-track random programming; Optimum Servo control; 3-beam laser; double oversampling digital filter; 10-key input; track skip & search; total/track playing time, track number, memory display; repeat; headphone jack. THD 0.007%, dynamic range 92 dB (at 1,000 Hz). Kenwood unified-remote system compatible. 16.56 x 3.44 x 10.31 in; 8.3 lb. . . . . \$445

### DP-M107R CD Changer

Features auto-function; 6-disc magazine plus single CD; optimum servo control; 3-beam laser pickup; double oversampling digital filter; intro-scan; one touch disc selection; 32-track random program memory; Random Roulette Play; fluorescent display with music calendar, disc, total/elapsed/remaining time, track number and program contents indication; 2 channels; FR 20-20,000 Hz  $\pm$  1 dB; dynamic range > 95 dB at 1 kHz; S/N ratio > 93 dB; THD < 0.009% at 1 kHz; w&F unmeasurable. 4.31 x 16.56 x 13.63 in; 13 lb. . . . . \$399

### DP-M97R CD Changer

Features auto-function; 6-disc magazine; optimum servo control; 3-beam laser pickup; double oversampling digital filter; one touch disc selection; 32-track random program memory; fluorescent display with total/elapsed/remaining time, track number, disc number, and program contents indication; 2 channels; FR 20-20,000 Hz  $\pm$  1 dB; dynamic range > 90 dB at 1 kHz; S/N ratio > 90 dB; THD < 0.02% at 1 kHz; w&F unmeasurable. 3.44 x 16.63 x 13.21 in; 12.1 lb. . . . . \$349

### DP-87 Remote-Controlled CD Player

Features optimum servor control; 3-beam laser pickup; double oversampling digital filter; 20-track random program memory; fluorescent display with music calendar, total/elapsed/remaining time, track number and program contents indication; auto function; 2 channels; FR 20-20,000 Hz  $\pm$  1 dB; dynamic range > 92 dB at 1 kHz; S/N ratio; THD < 0.007% at 1 kHz; w&F unmeasurable. 3.63 x 16.63 x 10.31 in; 8.4 lb. . . . . \$269

### DP-57 CD Player

Features auto function; optimum servo control; 3-beam laser pickup; double oversampling digital filter; 20-track random program memory; fluorescent display with music calendar, total/elapsed/remaining time, track number and program contents indication; system remote controllable through KA-127; 2 channels; FR 20-20,000 Hz  $\pm$  1 dB; dynamic range > 92 dB at 1 kHz; S/N ratio > 92 dB; THD < 0.007% at 1 kHz; w&F unmeasurable. 3.63 x 16.63 x 10.31 in; 8.4 lb. . . . . \$229

## KINERGETICS

### KCD-30 Gold Series CD Player

Volume and balance controls on front panel to drive power amp directly; dynamic processing circuits; corrected-slope filter; hysteresis-distortion cancelling circuit; no capacitors in signal path; servo loop to eliminate DC offset; 3-speed search; dual D/A converters; 1-beam laser; 4-times oversampling; spring-isolated transport; program memory for 226 discs; indexing; 19 rack mount. Output level 4 V; 14 lb; 19 x 3.75 x 12.6 in. . . . . \$1,495

### KCD-20AR Gold Series CD Player

Features remote-control; volume and balance controls on front panel; high-output voltage with ability to drive power amp directly; dynamic processing circuits; remote power supply; dual D/A converters;

single-beam with quadruple oversampling; spring isolation of transport; full-function display; indexing; full-function remote option; 19" standard rack mount. . . . . \$995

KCD-20A. Same as above without remote control. . . . . \$895  
 KRC-20. Add-on remote external eye. . . . . \$99

## KYOCERA

### DA-910 CD Player

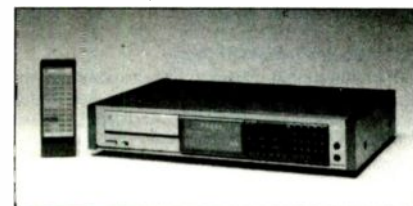
1-beam laser; digital filtering; programming of 24 tracks in random order; display of current track number, elapsed time of current track, remaining time on disc, program stored in memory; skip forward; skip back; cancel; repeat track, disc, phrase, program; cue by track number, index number; 8-function remote control; headphone jack (adjustable output). Max line output 5 V; THD at 1,000 Hz 0.005%; S/N 95 dB; sep 90 dB; FR 5-20,000 Hz  $\pm$  0.5 dB; 22 lb; 17 x 5.5 x 13 in. . . . . \$1,600

### DA-710 CX CD Player

Programs 24 tracks in any order, 99 tracks in sequential order; skip forward; skip back; fast forward; fast reverse; cancel; repeat track, disc, phrase, program; 39-function remote control; headphone jack with adjustable level; digital filtering; 3rd-order analog filtering; dual D/A converters; sound audible during fast scan. Cues by track and index number. Displays current track number, remaining time on disc, and program in memory. Headphone output 50 mW. 18.12 x 3.56 x 12.12 in; 13 lb. . . . . \$850

### DA-510CX CD Player

Quadruple oversampling digital filters; 2 discrete D/A converters; headphone jack with adjustable volume; gold-plated RCA jacks; 39-function remote control;



program; 20 tracks; optical isolation between digital and analog sections; digital output. . . . . \$700

### DA-610CX CD Player

3-beam laser; 24-key hand-held remote control can be used in system remote or separately; skip forward; skip back; fast forward; fast reverse; cancel; repeat track, disc, program; programs 15 tracks in any order, 99 tracks in sequential order; headphone jack with adjustable level; 9th-order analog filtering; single D/A converter; sound audible during fast scan. Displays current track number, remaining time on disc, program. 18.12 x 3.56 x 12.12 in. . . . . \$550

### DA-410CX CD Player

10-button keypad on front panel and remote; programmability; compatible with timers; anti-resonant construction; ceramic chassis spacers; zirconia ceramic laser guide shafts; double oversampling; 16-bit D/A conversion; 3rd-order Bessel-derived analog filters; fluorescent display; headphone jack with level control. walnut veneer side panels. . . . . \$540

### DA-310CX CD Player

Anti-resonant construction; zirconia ceramic laser guide shafts; 2-times oversampling; 16-bit digital-to-analog conversion; 3rd-order Bessel-derived analog filters; fluorescent display; headphone jack with level control. walnut veneer side panels. . . . . \$375

## LUXMAN

### D-03 CD Player

Drawer loading CD Player with 7-function remote.

# COMPACT DISC PLAYERS

Features one-beam laser; programming of 20 tracks in random order; skip forward/reverse; fast forward/reverse; cancel; repeat track, disc, program. Displays current track number, elapsed time of current track/current disc; remaining time; program stored in memory. Cues by track number, index number, time. Max line output 2 V; THD at 1,000 Hz 0.003% at 97 dB; FR 5-20,000 Hz  $\pm$  0.5 dB; 17.81 x 3.31 x 13.75 in; 18.7 lb. . . . . \$1,500

## D-109 CD Player

Features full-function remote control; serial remote jacks for connections to other Luxman products; digital output sends digital signal to Luxman LV-109 integrated amp; 1-4 time display functions; programs up to 20 tracks; index scan; A-scan plays first 10 sec of music; A/B switch to mark beginning and end of selected track(s) for repeat; memory check. FR 5-20,000 Hz -0.5 dB; THD 0.003% (1 kHz); dynamic range 100 dB; 17.25 x 4 x 15.25 in; 27.5 lb. . . \$1,500

## D-113 CD Player

Double oversampling digital filter; active 3rd order analog low pass filter; 3 beam laser; system remote capability; 16 program random memory. FR 5-20,000 Hz; THD 0.007%; S/N ratio 94 dB . . . . . \$650

## D-102 Programmable CD Player

15 track programmability; skip functions; 10 key input; memory call switch; repeat; headphone level control; timer play switch. FR 5-20,000 Hz -0.5 dB; THD <0.004%; S/N ratio >96 dB; dynamic range >96 dB. 17.23 x 3.38 x 12.31 in; 11.9 lb. . . . . \$550

## D-90 Remote Control CD Player

15 program random memory; separate power supplies for analog and digital circuits; 3 beam laser; track/index, track elapsed time and disc remaining time display; headphone level control. FR 20-20,000 Hz; THD 0.005%; S/N 91 dB. . . . . \$450

## D-111 Remote Control CD Player

16 program random memory; 10 key system allows direct track access from remote handpiece; rear panel serial remote jacks accommodate Luxman's unified remote control systems. 3-beam low mass laser pickup; high density magnetic disc clamper; anti-vibration laser pickup mechanism; active analog linear phase low pass filter; dual DAC's with 2x oversampling digital filter. FR 5-20,000 Hz +0.5/-0.5; THD 0.06%; S/N ratio 106 dB; dynamic range 90 dB \$350

## D-113D Remote Control CD Player

16 program random memory; 10 key numeric hand-piece and system remote capability; 10 key direct access and multi-function display; 3-beam low mass laser pickup; high density magnetic disc clamper; anti-vibration laser pickup mechanism; digital direct with optical and co-ax. Performance specifications are dependent on the digital direct amplifier with which the D-113D is used. . . . . \$550

## MAGNAVOX

### CDV474 CD-V/LaserVision CD Player

Remote-controlled combination player for CD-Audio, CD-Video, and LaserVision discs. Auto ID of disc type; programming. Video features include fast motion; slow motion; reverse play; freeze frame; random access . . . . . \$749-\$799

### CDB650 FTS CD Player

Favorite Track Selection (FTS) memorizes programs from various disc (up to 785 tracks). Extra altered output; music scan; single play; digital output for CD graphics. CD-ROM; skip forward; skip back; 3-speed FF and reverse; 4-sec record-pause insertion; anti-jamming protection; repeat track, disc, program; headphone jack with adjustable level; infrared remote control; 1-beam laser; low-order low-pass digital filtering; high-order analog filter; dual D/A converters. Cues by track number. Oversamples at 176.4 kHz. Displays current track number, elapsed time of

current track, elapsed time on disc, remaining time on disc. Headphone output 0-5 V. 16.5" w x 3.5" h x 11.75" d; 9.75 lb. . . . . \$499

### CDB473 FTS CD Player

Favorite Track Selection (FTS) memorizes programs from various discs (up to 785 tracks); touch-close drawer; 24-function remote control with 10-digit keypad and volume control. . . . . \$399

### CDB472 Remote-Controlled CD Player

Programs 20 tracks in any order; dual 16-bit D/A converters; headphone jack; 6-function remote; skip forward and back; 3-speed search (audible at 2 slower speeds); repeat; index access; quadruple oversampling digital filtering. Displays track number, index number, minutes, seconds, total tracks or total time, with indications for power, memory, errors, pause, repeat . . . . . \$299

### CDB471 Programmable CD Player

Programs 20 tracks in any order; 3-speed search (music audible at 2 slower speeds); quadruple oversampling digital filter; dual 16-bit D/A converter; skip forward and back; time or track display. . . . . \$259

### CDB482 CD Player

CD player with dual 16-bit D/A converters. Features CDM4 laser scanning assembly; 9-function infrared remote control; touch-to-close disc tray; 20-track memory programming; 4-digit LED display; next/previous track skip; 3-speed music search with cueing; repeat play; shuffle play; 3" CD-single compatibility; stereo headphone jack; FR 2-20,000 Hz; THD <0.02% at max output level; IMD 76 dB. 16.5 x 3 x 11 in \$229

### CDB486 CD Player

6-disc auto-changer CD player with dual 16-bit D/A converters. Features multi-function play capability; 11-function infrared remote control; CDM4 laser scanning assembly; auto play; 30-track memory programming; 5-digit LCD display; next/previous track skip; 3-speed music search with cueing; shuffle play; repeat play; stereo headphone jack; FR 2-20,000 Hz  $\pm$  0.5 dB; S/N ratio >90 dB; THD <0.02% at max output level; IMD 76 dB. 16.5 x 3.25 x 12.5 in. \$369

### CDB473 CD Player

CD player with dual 16-bit D/A converters. Features 785 lifetime memory Favorite Track Selection; 24-function random access IR remote control; remote audio output control; touch-to-close motorized tray loading; random access programming; 3-speed forward/reverse search; 1-second track access time; full-function FTD display; digital output jacks; headphone jack with volume control; new CD2 integrated circuits; CDM2 laser assembly; anti-jamming disc/player protection; single track/normal/autoplay modes; music scan auditioning; next/previous track skip; FR 2-20,000 Hz; THD <0.003% at 1kHz; IMD <90 dB at max output. 16.5 x 3.5 x 11.75 in. \$250

### CDB480 CD Player

CD player with dual 16-bit D/A converters. Features CDM4 laser scanning assembly; touch-to-close disc tray; 20-track memory programming; 4-digit LED display; next/previous track skip; 3-speed music search with cueing; repeat play; shuffle play; stereo headphone jack; 3" CD-single compatibility; pause control; FR 2-20,000 Hz; THD <0.02% at max output level; IMD 76 dB. 16.5 x 3 x 11 in. . . . . \$219

## MARANTZ

### CD-94 CD Player

Features dual 16-bit converters; quadruple oversampling; digital outputs with optically coupled link to optional CDA-94 separate D/A converter; Favorite Track Selection memorizes over 200 disc programs; shuffle play; random-track programming; intro scan; three independent power supplies for digital, analog, and mechanical sections; programmable wireless remote; black rosewood side panels . . . . . \$1,700

CD-94G. As above with rose-gold finish and rosewood side-panels . . . . . \$1,800

### CDC-6R CD Changer

Features 16-bit, 2 times oversampling double D/A converters; wireless remote control; random 32-track programming from any or all six discs; shuffle play; FR 5-20,000 Hz; THD 0.03%; S/N ratio 94 dB; sep 90 dB. 4.87 x 17.12 x 14 in; 13.2 lb. . . . . \$499

### CD-75DX CD Player

Features dual 16-bit converters; quadruple oversampling; digital data output for outboard D/A converter; bi-directional track skip; cue and review; random track programming and repeat; satin black finish \$450

CD-65DX CD Player. Similar to above . . . . . \$400

### CDC320BI, CD Changer

Features wireless remote control; 6-disc magazine; 15-track programmable; 3-beam laser. 3.25 x 16.5 x 11.87 in; 11.2 lb. . . . . \$369

### CD-50 CD Player

Drawer-loading CD player with wireless remote control. Features 3-beam pickup laser; 16-track random programming; skip forward; skip back; fast forward; fast reverse; repeat track and disc; digital filtering; dual D/A converters; cues by track number; oversamples at 88.2 kHz; displays current track number, elapsed time of current track, remaining time on disc. 3 x 16.5 x 10.88 in; 7.7 lb. . . . . \$350

### CD-40 CD Player

Features 16 track programming; 16-bit double oversampling; forward/reverse search/skip; repeat play; track/index display; THD 0.07%; S/N 90 dB; 3 x 16.5 x 10.88 in; 7.7 lb. . . . . \$300

### CD-60 CD Player

Features 16-track programmable memory; wireless remote control; motorized disc-loading; repeat play; numeric track and index display; stop/play/pause, repeat and memory indicators; forward/reverse search and skip; FR 5-20,000 Hz; THD 0.07%; S/N ratio 90 dB; sep 80 dB. 3 x 16.5 x 10.87 in; 7.7 lb. . . \$299

## McINTOSH

### MCD 7005 CD Player

Features wireless remote control with volume control; direct-access track, index, and time selection; volume control through McIntosh Precision Ladder Attenuator; 8-bit error correction system; twin 16-bit D/A converters with quadruple-oversampling. 32 lb. . . . . \$1,599

## MELOS AUDIO

### CD-T II Compact Disc Player

Dual-chassis player with 16 bit quadruple oversampling. Analog filtering an amplification; toroidal transformer and regulated power supplies contained in aluminum chassis; connectors are heavy gold plate; full function CD remote control; output 1.25 V RMS; 100 ohm output imp. . . . . \$1,495

### CD-T Vacuum Tube CD Player

16 bit quadruple oversampling and digital filtering. Low microphonic tubes used for amplification and filtering. Remote control, scan, index, timer, drawer loading . . . . . \$1,095

## MERIDIAN BY MADRIGAL

### 207 MKII Professional 2-Part CD Player

Drawer-loading CD player with single-beam laser pickup assembly in a spring die-cast subchassis with stainless steel guides. Two-box construction allows the electronics unit to be mounted on side or above the transport unit. Features digital to analog converters, 4-digit display with total/elapsed/remaining disc time or vol level and information on track selections; also indicates absolute-phase polarity, repeat and





*Our engineering philosophy,  
simply stated.*

---

**Audio Dynamics**

High fidelity. Low complexity. Presenting the new face of performance art, pure and simple.

For the name of an Audio Dynamics dealer near you, call 1.800.541.5696.

CIRCLE NO. 63 ON READER SERVICE CARD  
Audio Dynamics Corporation, 851 Traeger, San Bruno, CA 94066  
© 1988 Audio Dynamics Corporation

# COMPACT DISC PLAYERS

error correction; built-in preamplifier facilities; inputs for CD, line, tape; outputs for fixed, variable, tape and headphones; distortion <0.004%; 6.3 x 3.9 x 12.6 in; 18 lb. .... \$2,250

**209. Remote master control works with 207-PRO and other Meridian 200-series components; selects tracks; controls 8 inputs, volume, and mute; needs 9-V battery. .... \$150**

## MICRO SEIKI BY ANALOG EXCELLENCE

### CD-M2 CD Player

Remote controls direct track access, programming, display, phrase repeat, skip forward and back, search forward and back, index search; independent power supplies for each digital printed circuit board, analog PCB, servo mechanism, and FL display; quadruple oversampling; Philips laser pickup mechanism; 2 D/A converters; 3rd-order Bessel analog filter; digital and optical outputs; Brazilian rosewood cabinet; rosewood trim on remote; convertible to 18 bits with outboard processor. FR 2-20,000 Hz  $\pm 0.1$  dB. THD <0.0015%; s/N > 104 dB at 1,000 Hz; dynamic range >96 dB; analog out 2 V rms; balanced analog out 1 mW/600 ohms; 48.4 lb. .... \$3,995

## MISSION ELECTRONICS

### PCM II CD Player

Front-loading CD player with touch close disc loading tray. Features scan; A/B repeat; direct access programming; phase inversion switch; headphone jack with adjustable volume on remote; 29-function remote control; dual 16-bit D/A converters; quadruple-oversampling digital filter; 20-track random programming; 3-mode time display; 3-speed search; digital output; four independent power supplies for digital and analog electronics; gold-plated RCA connectors. .... \$1,500

### PCM 7000 CD Player

CD player with remote control and four separate power supplies. Features 16-bit quadruple oversampling digital filter; twin D/A converters; 20-track random programming; skip forward and back; fast forward; fast reverse; cancel; repeat track, disc, and program; cues by track; 1-beam laser; displays elapsed time, remaining time, program in memory. 17 x 3 x 13.5 in. .... \$999

## MITSUBISHI

### M-C5100 CD Player

Features dual 18-bit D/A converters; 8-times oversampling; both optical and coaxial direct digital outputs; single master clock frequency for all digital circuits; anti-resonant construction; Photo Direct amplifier IC; automatic editing function; music calendar display of disc contents. .... \$600

### DP-409R CD Player

Auto-changer with remote control 3 beam laser; repeat track and disc skip track and 30 segment programmable; 16-function, infrared wireless remote control. .... \$550  
DM-5. 5 CD magazine for use with DP-409R. .... \$13

### M-C4100 CD Player

Features five-disc capacity; 20-selecting programmability; audible scan; double oversampling; 16-bit D/A converters; digital filtering; single clock frequency for all digital circuits; introscan; random play functions; direct random track access; 3" disc compatibility; headphone jack with separate level control; wireless, full-function, remote control; anti-resonant chassis construction. .... \$449

### DP-209R CD Player

Features 3 beam laser; 36 selection programmable; skip function; repeat play; 10 function remote control; adjustable headphone level. .... \$300

### DP-212R CD Player

Features double oversampling; digital filtering; 36 programmable tracks; random access of any track; two-speed forward/reverse search; index search; repeat play; headphone jack; wireless remote; 3-beam optical tracking. .... \$249

### DP-109 CD Player

Features 3 beam laser; 36 selection programmable; skip function; repeat play. .... \$240

## THE MOD SQUAD

### Prism CD Player

Drawer-loading CD player with 16-bit digital processing. Features quadruple oversampling; wireless infrared remote control; Favorite Track Selection; 20-track random programming; repeats disc, track, program, and phrase (A-B repeat); displays elapsed time of track and remaining time on disc; digital time domain alignment; separate digital and analog power supplies; DC coupling; fixed line outputs; output level 4 V rms; headphone jack with variable output level; digital outputs. FR 0.1-20,000 Hz  $\pm 0.05$  dB; s/N 110 dB; THD 0.02%; 8 lb. .... \$1,200

### Focus Plus CD Player

Drawer-loading CD player with damped suspended transport. Features 20-track random programming; 16-bit digital processing; quadruple oversampling; digital time domain alignment; wireless infrared remote control; repeats disc, track and program; displays elapsed time of current track and disc; fixed line outputs; headphone jack with fixed level; output level is 4 V rms; Favorite Track Selection; proprietary group delay filter; digital outputs; DC coupling. 7.5 lb. .... \$900

**Focus CD Player.** As above without proprietary group delay filter, digital outputs, or DC coupling \$650

## NAD

### 5300 Monitor Series CD Player

Wireless remote control; dynamic range control; ambience circuit; quadruple oversampling; drawer loading; CDR circuit; separate D/A converters; error display; 3-beam laser; skip and scan forward and back; displays track number, elapsed and remaining time; repeats disc; programming. .... \$898

### 5170 Monitor Series CD Player

Multiple play; 6-disc magazine and single play drawer; 16 bit D/A; 4x oversampling; CDR circuit; intro scan; 32-track programable memory; remote control including volume; rack mountable. .... \$748

### 5100 Monitor Series CD Player

Drawer loading; 16-bit decoding with 4x oversampling; CDR circuit; remote control output level; variable and fixed outputs; 8 separate analog, digital and mechanical power supply sections; normal and delete mode programming; NAD designed analog and digital circuitry; rack mountable. .... \$598

### 5240 Remote-Controlled CD Player

Wireless remote control; dynamic range control; 3-beam laser; skip and scan forward and back; displays track number, elapsed and remaining time; repeats disc; programming of up to 16 tracks. .... \$448

### 5220 Programmable CD Player

3-beam laser; skip and scan forward and back; displays track number, elapsed and remaining time; repeats disc; programming of up to 16 tracks; timer compatible. .... \$348

## NAKAMICHI

### OMS-7AII Compact Disc Player

Drawer-loading CD player. Features 3-beam laser; digital filtering (resampling frequency 176.4 kHz); dual 16-bit, glitch-free D/A converters; programming of 24 tracks in random order; display of current track

number, elapsed time of current track, remaining time on disc, program stored in memory; sound audible during fast forward and fast reverse; skip forward; skip back; fast forward; fast reverse; cancel; repeat disc; program; cue by track number, index number; 7-function remote control; headphone jack with adjustable level. Max line output 2 V; headphone output 35 mW; THD at 1,000 Hz 0.0025%; s/N >104 dB; sep >100 dB; FR 5-20,000 Hz  $\pm 0.5$  dB; 16 lb, 5 oz; 17.12 x 3.94 x 12.12 in. .... \$1,995  
OMS-5AII. As above, no remote control or programming capability. .... \$1,650

### OMS-4A CD Player

Drawer-loading CD player with shunt-connected deglitching; multi-regulated power supply; magnetic chuck; remote control. Features programming of 15 tracks in any order; skip forward; skip back; fast forward; fast reverse; cancel; headphone jack with adjustable headphone level; 3-beam laser; 16-bit digital filter; dual D/A converters. Oversamples at 88.2 kHz; Displays current track number, elapsed time on disc. Headphone output 35 mW/40 ohms. 16.94 x 3.95 x 12.69 in; 15 lb. .... \$995

### OMS-3A CD Player

Drawer-loading CD player with shunt-connected deglitching; multi-regulated power supply; magnetic chuck; remote control. Features programming of 15 tracks in any order; skip forward; skip back; fast forward; fast reverse; cancel; headphone jack with adjustable headphone level; 3-beam laser; 16-bit digital filter; single D/A converter. Oversamples at 88.2 kHz; Displays current track number, elapsed time on disc. Headphone output 35 mW/40 ohms. 16.94 x 3.95 x 12.69 in; 15 lb. .... \$850

### CDP-2A CD Player

Mid-level CD player featuring 16-bit quadruple oversampling with digital filtering; dual D/A converters; third order Bessel analog filter; multi-regulated isolated-ground power supplies; 24 memory programming function; wireless remote control with 24 key transmitter; headphone jack with level control; 3-beam laser pickup; FR 20-20,000 Hz  $+0.5/-1.0$  dB; s/N >0.006%; 16.94 x 2.94 x 10.63 in; 8 lb. .... \$529

### OMS-1A CD Player

Features 16-bit D/A conversion; double-oversampling digital filtering with 5th order active analog filter; dual-mono analog circuits; independent digital and analog power supplies; 3-beam laser pickup with astigmatism detection; high-precision servo; synchronized digital timing; floating disc drive with precision centering; 15-track program memory; wireless remote control; bidirectional skip search; dual-speed cueing; repeat play; disc rotational velocity 200-500 rpm; FR 5-20,000 Hz; signal-to-noise ratio >96 dB; THD 0.007%; channel sep >88 dB; 16.94 x 2.94 x 10.63 in; 8 lb, 3 oz. .... \$329

## NEC

### CD-720 CD Player

Wireless remote control; 16-bit digital filter with quadruple-oversampling; dual D/A converters; optical decoupling; gold plated terminals; digital outputs; separate power supplies for digital and analog stages; 3-way edit; fade out; intro-scan; random play; 24-track random programming; 3-way repeat; 10-disc memory; programming delete; variable and fixed audio outputs; CD single compatibility. .... \$579

### CD-620 CD Player

Wireless remote control; 16-bit digital filter with quadruple-oversampling; dual D/A converters; digital outputs; gold-plated terminals; separate power supplies for digital and analog stages; 24-track random programmable memory; auto/manual edit functions; random play; 3-way repeat; programming delete; intro-scan; direct access; 2-speed audible cue and review; CD single compatibility; headphone jack with adjustable level. .... \$479



# COMPACT DISC PLAYERS

## CD-520 CD Player

Wireless remote control; 16-bit digital filter with double-oversampling; D/A converter; gold-plated terminals; 24-track random programmable memory; automatic edit; auto space; 3-way repeat; intro-scan; direct access; 2-speed audible cue and review; CD single compatibility; headphone jack with adjustable level. . . . . \$359

## CD-420 CD Player

Wireless remote control; 16-bit digital filter with double-oversampling; D/A converter; gold-plated terminals; 20-track random programmable memory; auto space; auto space insert; 3-way repeat; direct access; 2-speed audible cue and review; CD single compatibility; headphone jack with adjustable level. . . . . \$299

## NIKKO AUDIO

### CD-500 CD Player

Features remote control with 10-key direct-access pad; timer play; space play; index programming; pause; fast search; all clear; headphone output with adjustable level. Optionally rack mountable. . . \$499

### CD-300 CD Player

Features remote control; 3-beam laser; 18-track random programming; index programming; pause mode. Optionally rack mountable. . . . . \$299

## ONKYO

### Integra DX-7500 CD Player

CD player with 18-bit linear circuitry. Features 8-times-oversampling digital filter; separate left and right Opto-Drive D/A converters; opto-coupling; optical and coaxial digital outputs; DDAC output; fixed and variable analog outputs; separate power transformers for digital and analog stages; 3rd order GIC type analog output filters; 20-track random programming; random music calendar; integrated system remote compatible with supplied controller. . . . . \$700

### Integra DX-5500 CD Player

CD player with 18-bit linear circuitry. Features quadruple-oversampling digital filter; separate left and right Opto-Drive D/A converters; opto-coupling; optical and coaxial digital outputs; fixed and variable analog outputs; separate power transformers for digital and analog stages; 3rd order GIC type analog output filters; 20-track random programming; random music calendar; integrated system remote compatible with supplied controller. . . . . \$600

### DX-C600 CD Changer

Remote-controlled magazine-loading 6-disc CD changer with opto-coupling system to electrically separate the digital and analog sections. Features programmed playback; random shuffle playback; 3 repeat modes; skip forward; skip back; fast forward; fast reverse; direct access to disc and track numbers; multi-function FL display. 17.12 x 4.5 x 13 in. 13.2 lb. . . . . \$600

KC-600. Additional 6-disc magazines for DX-C600. . . . . \$19.95 ea

### DX-C400 CD Changer

CD changer with 6-disc capacity. Features 3-beam laser pickup; double-oversampling digital filter; 32-track random programming; random play; repeat disc, track, and program; integrated system remote capability. . . . . \$430

### DX-530 CD Player

Remote-controlled CD player with opto-coupling system to electrically separate the analog and digital sections. Features programming of 20 tracks in any order; shuffle play; repeat track, disc, program, A-B phrase, and shuffle play; direct access to tracks; auto-speed music search; index search; skip forward; skip back; 2-speed fast forward and reverse; timer func-

tion; headphone jack; motorized volume control; output CMN filter; digital filtering; vibration damping; 3-beam laser; digital output terminal, printed circuit boards with specially designed insulation packet to absorb electro-magnetic flux. Display indicates track number, index number, program in memory, remaining time of track/disc/program, elapsed time of track/disc/program. 17.12 x 3.62 x 14.06 in; 12.3 lb. . . . . \$450

### DX-2500 CD Player

CD player with coaxial digital output. Features 3-beam laser pickup; double-oversampling digital filter; 16-track programming with edit function; 3-mode display with random track sequencing; 10-key direct play; integrated system remote compatible. . . . . \$320

### DX-1500 CD Player

CD player with 3-beam laser pickup. Features double-oversampling digital filter; 16-track programming with edit function; 3-mode display with random track sequencing; integrated system remote capability. . . . . \$260

## PANASONIC

### RX-FD75 Portable Radio/Cassette/CD Player

FM/AM/FM stereo radio dual cassette recorder with built-in CD player. LCD clock timer, remote control and automatic tape level setting. Features edit pause; auto-manual recording mode selector; synchro-start function; built in remote control; extra bass system; LCD clock/timer with sleep function; bass/treble tone controls; 2-way 4-speaker system; jacks for AC-in, 2 lines out; ext. mic/mic mix, and headphone. CD player features 36-step random access programming; skip/search/repeat functions; music scan function. Radio cassette recorder features reverse mode selector; auto tape selector; feather-touch controls; dolby NR; auto relay playback system; tape program sensor; full auto-stop. Operates on AC power cord (included) or 10-D batteries (not-included); 7.31 x 25.19 x 8.56 in; 15.19 lb. . . . . \$650

### SL-P3900C CD Player

CD auto-changer with 6-disc magazine; 22-key, full function wireless remote control, and large 2-color FL display with music matrix. One-touch disc selection; 36-step random access programming; random play function; high speed linear motor access system; high resolution digital filter; quadruple oversampling; high resolution laser pickup; FR 2-20,000 Hz  $\pm$  0.5 dB; S/N 96 dB; THD 0.006%; 16.88 x 4 x 12.38 in; 12.8 lb. . . . . \$499.95

### RX-FD55 Portable Radio/Cassette/CD Player

FM/AM/FM stereo radio dual cassette recorder with



built-in CD Player and automatic tape level setting. Features edit-pause; auto-manual recording mode selector; synchro start function; extra bass system; 4-band graphic equalizer; jacks for AC-in, 2 lines-out; ext. mic/mic mix, and headphone; CD player features LCD display; 36-step random access programming. Radio cassette recorder features auto-reverse playback and recording; metal tape capability; feather-touch controls; full auto-stop. Operates on AC power cord (included) or 10-D batteries (not included); 2 4" speakers; 16.81 x 23.88 x 6.94 in; 11.44 lb. . . . \$430

### RX-DT50 Portable Radio/Cassette/CD Player

FM/AM/FM stereo radio dual cassette recorder with built-in CD player and automatic tape level setting. Features extra bass system; tone controls; jacks for AC-in, IX-in, 2 lines-out, ext. mic, headphone optional ear battery cord. CD features multi-info LCD display with music matrix indication; 10-key direct access music programming; 36-step random access programming. Radio cassette recorder features dolby NR; metal tape capability; soft-eject system; FM stereo/mono mode selector. Operates on AC power cord (included) or 8-D batteries (not included); 16.69 x 27.19 16.69 in; 11.69 lb. . . . . \$430

### SL-P3800C CD Player

Large 2-color FL display. Features auto-changer with 6-disc magazine; quadruple oversampling; digital filter; separate DAC for each channel; 36-step random access programming; random play function; high speed linear motor access system; high resolution laser pickup; independent disc selection; direct access system; multi-function wireless remote; FR 2-20,000 Hz  $\pm$  0.5 dB; S/N 96 dB; THD 0.006%; 16.88 x 4 x 12.38 in; 12.8 lb. . . . . \$399.95

### SL-NP10 Portable CD Player

Programs 18 tracks; skip forward and back; repeat track, disc, and program; headphone jack with adjustable level; switchable high-cut filter; 1-beam laser; digital filter. Displays current track number, elapsed time of current track or disc, remaining time on disc. Plays up to 5 hrs on battery charge; in black, burgundy, or white. Includes rechargeable battery pack. AC adaptor, connection cord, soft case. . \$309

### SL-P3510 CD Player

Programmable compact disc player with multi-function 2-color FL display. Features high speed linear motor access system; transport designed for 3" and 5" CDs; high resolution laser pickup; repeat function for single track, entire disc, or program contents; remote control terminal ready; 20-step random access programming; FR 2-20,000 Hz  $\pm$  0.5 dB; THD 0.006%; 17 x 3.1 x 9.5 in. . . . . \$249.95

## PARASOUND

### D/VF-900 CD Player

Variable high frequency focus adjust CD player. Features double oversampling; digital filtering; triple beam laser; double shock mounting; full feature wireless remote control; 36 audiophile-grade capacitors; gold-plated jacks; all metal chassis; 15 selection programming; repeat all/track/ any start-stop points; regulated power supply; high-speed audible search; headphone jack level control; FR 5-20,000 Hz; S/N 99 dB; THD < 0.005%; sep > 86 dB; max search time 3 sec; 17.25 x 3.5 x 12 in. . . . . \$400

## PHILCO

### CD2471 CD Player

Program: 20 tracks in any order; 3-speed search (music audible at 2 slower speeds); quadruple oversampling digital filter; dual 16-bit D/A converter; skip forward and back; time or track display. . . . . \$280

## PHILIPS

### 960 CD Player

Features dual, 16-bit D/A converter with quadruple oversampling; FTS favorite track selection; die-cast aluminum nonmagnetic main- and subchassis; fast track access; Copy Pause; single-beam pickup; 2-motor front-loading drawer; anti-jamming protection; keypad track selection; 20-track random-access programming; infrared full-function remote control; information display; search forward, reverse keys with 3-speed search keys; Repeat key; Scan key; optical coupler; FR 2-20,000 Hz; S/N > 105 dB; dynamic range > 96 dB; sep 105 dB; THD 0.0015%; ultrasonic noise rejection (24.1 kHz) > 60 dB; w&f unmeasurable. 4.0 x 16.8 x 15.3 in; 21.1 lb. . . . \$949

# COMPACT DISC PLAYERS

## 880 CD player

Features dual, 16-bit D/A quadruple oversampling converters; die-cast aluminum nonmagnetic chassis; CDM1 MKII single-laser pickup arm; remote digital volume control; FTS favorite track selection; multi-function display with Music Calendar programming; Copy Pause; shuffle function; search forward and reverse keys with 2-speed music search keys; timer switch; Direct Play/Program modes via 10-key pad; copper heat sinks; FR 2-20,000 Hz; S/N >103 dB; dynamic range >96 dB; sep >103 dB; THD <0.002%; ultrasonic noise rejection (24.1 kHz) >60 dB; w&F unmeasurable. 3.52 x 16.8 x 14.52 in; 22.5 lb. . . . . \$749

## 680 CD Player

Features dual, 16-bit D/A converters with quadruple oversampling; CDM 2 single-beam laser pickup; FTS favorite track selection; 10-button remote control; random access programming; 3-speed forward and backward music search; multi-function display of major functions; Skip Up; Skip Down; integrated high-precision servos; motorized tray; digital output jack; FR 2-20,000 Hz; S/N >100 dB; dynamic range >96 dB; sep >96 dB; THD <0.003%; ultrasonic noise rejection (24.1 kHz) >60 dB; w&F unmeasurable. 16.8 x 3.0 x 11.2 in; 6.8 lb. . . . . \$329

## 875 CD Changer

Features dual, 16-bit D/A converter with quadruple oversampling; six-disc changer; single-disc tray; optional six-disc magazine for new 3" singles; 40-track programming with calendar-type display; FTS favorite track selection; shuffle play; A-B repeat; scan-play remote volume control; headphone volume control; LCD remote; aluminum-front, metal chassis. . . \$499

## PIONEER

### CD Players

#### Elite PD-91 CD Player

CD player with 8-times oversampling digital filter and dual 18-bit D/A converters. Features 3rd order low-pass analog Butterworth filter; laser pickup with integral buffer amplifier; 24-track random-access programming; music window search; random play; digital fader with variable fading time; auto program edit; time edit; digital output jacks; coaxial and optical outputs; headphone jack with adjustable level; FL display; 4 separate power supplies; laminated iron plate coated with polyacetal and copper-plated honeycomb plates; coil springs with rubber dampers to support subchassis . . . . . \$1,300

#### PD-7100 CD Player

CD player with 8-times oversampling digital filter. Features remote control; dual 16-bit linear envelope D/A converters; Class-A FET buffer amplifier; coaxial and optical digital output; 24-track random programming; 20-track music calendar; fade in/fade out; timer start system; digital level control; FL display; Pioneer disc stabilizing system; 2-speed manual search; non-repeating random play; repeat disc, track, and program. . . . . \$565

#### PD-5100 CD Player

CD player with quadruple-oversampling digital filter. Features remote control; dual 16-bit D/A converters; 20-track random programming; 20-track music calendar; fade in/fade out; timer start system; FL display of track and elapsed time on disc; Pioneer disc stabilizing system; 2-speed manual search; non-repeating random play; repeat function for disc, track, and program. . . . . \$335

#### PD-4100 CD Player

CD player with double-oversampling digital filter. Features remote control; dual 16-bit D/A converters; 20-track random programming; 20-track music calendar; fade in/fade out; timer start system; FL display; Pioneer disc stabilizing system; 2-speed manual search; non-repeating random play; repeat disc, track, and program. . . . . \$250

## Changers and Combi-Players

### CDI-3030 CD/CDV/LD Player

Combi-player which plays 8- and 12-inch LaserDiscs, CD's, CD-video's, and CD-3's. Features remote control; quadruple-oversampling digital filter; 8-bit digital-field memory; video special effects; dual D/A converters; optical digital audio output; 20-chapter programmability; 10-key direct access search; still/step; 2-speed silent scan; frame-time search; chapter search; 9-step multi-speed play. . . . . \$1,300

### Elite PD-M900 CD Changer

Magazine-type CD changer with 6-disc capacity and remote control. Features anti-resonance honeycomb/copper chassis; gold-plated output jacks; anti-vibration insulators; 8-times oversampling; dual D/A converters; coaxial and optical digital output; MPSS



(magazine program selection system) for 256-selection programming and magazine/program labeling from remote control; time/fade edit; auto-fader; delete; non-repeating random play; direct access disc and track selection; 2-speed manual search; repeat disc, track, and program hand-brushed lacquer finish; rosewood-finished side panels . . . . . \$625

### PD-M700 CD Changer

Magazine-type CD changer with 6-disc capacity and remote control. Features 8-times oversampling; dual D/A converters; coaxial and optical digital output; MPSS (magazine program selection system) for 256-selection programming and magazine/program labeling from remote control; time/fade edit; auto-fader; delete; non-repeating random play; direct access disc and track selection; 2-speed manual search; repeat disc, track, and program . . . . . \$720

### PD-M600 CD Changer

Magazine-type CD changer with 6-disc capacity and remote control. Features 4-times oversampling; dual D/A converters; MPSS (magazine program selection system); time/fade edit; auto-fader; delete; non-repeating random play; direct access disc and track selection; 2-speed manual search; repeat disc, track, and program . . . . . \$585

### PD-M500 CD Changer

Magazine-type CD changer with 6-disc capacity and remote control. Features 4-times oversampling; dual D/A converters; 32-track programming; time/fade edit; auto-fader; delete; non-repeating random play; 2-speed manual search; repeat disc, track, and program . . . . . \$470

### PD-M400 CD Changer

Magazine-type CD changer with 6-disc capacity. Features double-oversampling; dual D/A converters; 32-track programming; time/fade edit; auto-fader; delete; non-repeating random play; 2-speed manual search; repeat disc, track, and program . . . . . \$400

## PROTON

### AC-300 CD Player

CD player with wireless remote control. Features one-beam laser pickup; Cross Interleave Reed Solomon Code (CIRC) error correction; quadruple-oversampling digital filter; 20-track programmable memory; 3-speed music search; precise audible cueing at two lower speeds; real time digital display of total tracks, total playing time, track number, and elapsed time of each track; repeat disc, track, and program; headphone jack with adjustable level. FR

20-20,000 Hz  $\pm$  3 dB; dynamic range 96 dB; S/N 96 dB; ch sep (at 1 kHz) 94 dB; THD (at 1 kHz) 0.003%; IMD 0.003%. 16.5 x 3.4 x 11.2 in; 7.9 lb. . . . . \$399

## QUASAR

### CD8966 Portable CD Player

Features 5-hr operation with rechargeable battery pack; multi-function LCD readout; 18-step random-access programming; hi-cut filter for headphone listening; high-resolution digital filter; 4-step battery check indication. . . . . \$300

### CD8956 CD Player

Drawer-loading CD player with direct access. Features high-speed linear-motor access system; skip forward; skip back; fast forward; fast reverse; cancel; programming of 20 tracks in any order; repeat track, phrase, disc, and program; one-beam laser; single D/A converter; 96th-order FIR double-oversampling filter; audible fast scan. Cues by track and index number. Displays current track number, elapsed time of current track, elapsed time on disc, remaining time on disc; 16.94 x 3.03 x 0.19 in . . . . . \$250

### CD8936 Portable CD Player

Top-loading portable CD player with direct access and switchable high-cut filter for HP output. Features skip forward; skip back; fast forward; fast reverse; headphone jack; repeat disc and track; one-beam laser; single D/A converter; audible fast scans. Cues by track number. Displays current track number, elapsed time of current track, remaining time on disc. Headphone output 15 mW. 4.97 x 1.25 x 4.97 in; 13.8 oz. . . . . \$240

### CD8946 CD Player

Programmable CD player features high-resolution digital filter; high-speed linear motor, 20-step random-access programming; multi-function FL display; preset editing; stop/search forward and reverse; 2-speed search with cueing sound. S/N 96 dB; THD 0.004%; FR 4 Hz-20,000 Hz  $\pm$  0.3 dB. 16.94 x 3.03 x 9.44 in. . . . . \$230

### CD8988 CD Player

Remote control CD player features 6-disc changer; quick response direct entry system; 36-step random access program . . . . . \$350

## RCA

### MCD245 Dimensia CD Player

CD player with Dimensia remote-control operation and on-screen status indication when used with Dimensia monitor. Features 15-track random programming; forward/reverse search for track, index, or scan; repeat; auto switching; system record protection logic; SystemLink cabling; powered disc-loading drawer; directory display panel; independent suspension system; manual function controls; 3-beam laser pick-up. FR 5-20,000 Hz  $\pm$  1.0 dB; S/N >95 dB; THD 0.005% (at 1,000 Hz); sep 90 dB (at 1,000 Hz); sampling FR 44.1 kHz. 14.63 x 3 x 10.63 in. . . \$299

## REALISTIC

### CD-3200 Portable CD Player

Mini jack for use with headphones and cable for home stereo system; soft-touch controls beep when pressed; auto search; 2-speed scan forward and back; programs 16 tracks; 6-digit LCD readout; snap-on battery pack needs 4 AA batteries. 6.5 x 5.5 x 1.3 in with battery pack; 4.9 x 4.9 x 1.06 in without battery pack. . . . . \$220

### CD-1600 CD Player

Skips forward and back; 2-speed search forward and reverse; programs 16 tracks; 3-way repeat; index search; repeat tracks; music calendar to show program contents; switchable; floating disc tray; auto space; 3-spot laser; wireless remote needs 2 AA batteries . . . . . \$250



# COMPACT DISC PLAYERS

## CD-2400 Programmable CD Player

Programs 15 tracks; 3-spot laser; floating disc tray; 4-digit fluorescent display; repeats track, program, disc; scan forward and reverse; bi-directional auto search; 3-way repeat of programmed selections, entire disc or single selection. . . . . \$200

## CD 6000 CD Player

Remote control changer-plays up to 6 discs automatically; includes 6-disc magazine; 32 tracks; 2x over sampling; tri-spot laser; 3-way repeat; dual-mode LED display; auto-search; bi-directional audible skip and search. . . . . \$360

## REVOX

### B226-S CD Player

Drawer-loading CD player with Revox system-remote compatibility. Features 16-bit, quadruple oversampling; new generation transport and D/A converters; display shows track number, time remaining, time elapsed for both track and disc; fixed and variable outputs; 2-digital outputs; 19-step programming by track/index access from 1-99; audible forward/reverse search; locate function; headphone jack with adjustable level; FR 20-20,000 Hz  $\pm 0.1$  dB; S/N > 100 dB; 17.7 x 4.3 x 13 in; 18.7 lb. . . . . \$1,800

**B126 CD Player.** Similar to B150-S. . . . . \$1,275

## ROTEL

### RCD-820BX2 CD Player

20 programmable selections; Repeat functions for disc, track, and entire program; 16-bit quadruple oversampling decoding system; FR 20-20kHz  $\pm 0.08$  dB; THD 0.0025%; S/N 100dB. Regulated power supplies and selected components. 7 lb. . . . . \$749

### RCD-850 CD Player

Drawer-loading CD player with programming of 9 tracks in random or sequential order. Features skip forward; skip back; fast forward; fast reverse; cancel; repeat track; repeat disc; 3-beam laser; high-slope



digital filtering; 3rd-order analog filtering; single D/A converter. Oversamples at 44.1 kHz. Cues by track number. Displays current track number, elapsed time of current track. 17 x 3.81 x 11.44 in; 9 lb. . . . . \$379

## SAE

### D102 CD Player

Fully programmable, single beam laser, computer direct-line CD player. Features random access function for 20 tracks; LED readout for track, time mode, error alert, and repeat; cueing function; bi-directional, 3-speed audible search modes; previous/next track; error correction; quadruple oversampling at 176.4 kHz through 16 bit processor; 12 function infrared remote control commander; FR 2-20,000 Hz  $\pm 0.3$  dB; phase linearity  $\pm 0.5$  degrees; S/N > 100 dB; THD 0.006%; CIRC error correction. . . . . \$599

## SAMSUNG

### RCD1000 Portable CD System

Combination CD player/cassette deck/AM/FM tuner. Features 3-beam vertical-type pickup; 16-track programming; repeat track and disc; one-touch record; autostop; LCD track number and time; synchro-dubbing CD-to-tape. 23 x 6.63 x 6.25 in; 9.25 lb. \$270

## SANSUI

### CD-X701i CD Player

Features 3 beam laser; oversampling digital filter. 28-

key remote control; AMPS; repeat one track, point A to point B, and all tracks; random programming for up to 20 tracks; headphone output w/volume control. S/N 105 dB; FR 5-20,000 Hz. 17.56 x 3.75 x 16.13 in; 20.3 lb. . . . . \$650

### CD-X510M CD Changer

Dual-cartridge, multi-play, 12-disc CD Changer with single-play tray and CD-3 adaptor. Features remote control; two 6-disc magazine-type cartridges; random programming; variable music/intro scan; 3 repeat modes; dual D/A converters; double-oversampling digital filter. FR 5-20,000 Hz; dynamic range > 95 dB; S/N 100 dB; THD (at 1,000 Hz) 0.004%. 5.7 x 17 x 12.63 in. . . . . \$630

### CD-X501i CD Player

CD player with quadruple-oversampling digital filter. Features dual D/A converters; digital output; FL display; 20-track random programming; random play; 4-way repeat variable time music scan; Dynamic Servo System; master clock; flux-free chassis. THD (at 1 kHz) 0.003%; FR 4-20,000 Hz; dynamic range > 97 dB; S/N > 106 dB. 3.88 x 17.7 x 12.5 in. . . . \$600

### CD-X301i CD Player

CD player with double-oversampling digital filter. Features dual D/A converters; FL display; 20-track random programming; random play; 4-way repeat; Dynamic Servo System; master clock; FR 4-20,000 Hz; dynamic range > 96 dB; THD (at 1,000 Hz) 0.003%. 3.75 x 17 x 11.1 in. . . . . \$390

### CD-X310M CD Changer

Magazine-type CD changer with 6-disc capacity. Features 32-track random programming; 3-way repeat; 3-beam pickup; full-function remote control; 16-bit linear D/A converter; AMPS (Automatic Music Program Search) FR 5-20,000 Hz; THD 0.008% at 1 kHz; S/N > 93 dB. 3.5 x 16.5 x 13.3 in; 11.2 lb \$390

### CD-V1000 CD Player

CD player with 24-track random programming. Features double-oversampling digital filter; 3-way repeat; synchronized operation with some Sansui tape decks; multi-function LED for total time, elapsed time, and time remaining on disc. FR 5-20,000 Hz; dynamic range 95 dB; THD (at 1 kHz) 0.003%; output voltage 2 V. 3.63 x 17 x 11 in; 10.8 lb. . . . . \$320

## SANYO

### CPM1000 CD Changer

10-disc CD-changer with remote control. Features 10-disc magazine; single disc magazine; 24-button remote control; 32-track programmability; random play; intro-scan; 3-beam tracking mechanism; skip & search mechanism; multi-function FL display; internally-damped suspension system; mic mixing; 3-way repeat operation; 3-beam tracking system; adjustable output level from remote and front panel; timer play. 16.75 x 4.5 x 12 in; 11 lb. 14 oz. . . . . \$500

### MCD45KN CD Boombox

CD Boombox with built-in AM/FM stereo tuner and cassette player/recorder. CD section features full programmability; CD-3 capability. Tape section features autoreverse. Other features include infrared wireless remote control; surround-sound capability with additional surround speakers; AMSS (Automatic Music Select System); built-in quartz-lock timer; multi-function LCD bass and treble controls; CD/line output terminals; headphone jack. Comes with free 5" CD sampler. . . . . \$400

### CP12 Portable CD Player

Ultra-thin portable CD player with new drive mechanism and LSI for compactness. Features 16-track programming; 3-beam laser; vibration-resistant design; dynamic range 86 dB; selection skip; selection search; repeat track or disc; phone mute switch; rechargeable lead battery provides 4.5 hours of operation. 4.94 x .75 x 5 in; 13 oz. . . . . \$300

## CP850 CD Player

CD player with infrared wireless remote control. Features 16-track programming; multi-function LCD display; 3-beam laser; isolated suspension system; skip forward/reverse; forward/reverse search; repeat disc. 16.75 x 3.5 x 10.75 in; 7 lb. 8 oz. . . . . \$250

## CP860 CD Player

CD player with double-oversampling digital filter and 16-key wireless remote control. Features CD-3 capability; dynamic range 96 dB; 3-beam pickup; 16-track programmability; skip; search; repeat program; calendar display. . . . . \$220

## CP820 CD Player

CD player with double-oversampling digital filter. Features CD-3 capability; dynamic range 96 dB; 3-beam pick-up; 16-track programmability; skip; search; repeat program. . . . . \$160

## SCOTT

### DA990 CD Player

3-beam laser; digital filtering (oversamples at 88.2 kHz); full-function wireless remote; programs 20 tracks in any order; 16-bit D/A converter; switchable analog filter; headphone jack with volume control; big chrome-plated feet; auto space. . . . . \$400

### DA1000 Dual-CD CD Player

CD player with 2 CD drawers. Features 22-key wireless remote control; 30-track random programming; CD-3 capability; skip search; index search; 2-speed manual search; 3-way repeat playback; headphone jack with volume control; CD, A/B selector with LED indicator; program selection display; 3-beam pickup; 16-bit linear D/A converter. THD 0.03% at 1 kHz. 4.4 x 17.1 x 11.75 in; 13 lb. . . . . \$350

### DA963 CD Player

Programs 15 tracks in any order; skip forward; skip back; fast forward; fast reverse; repeat track, disc, program; 8-function remote control; 3-beam laser; digital and analog filtering; single D/A converter; sound audible during fast scan. Cues by track number. Displays current track number, elapsed time of current track, elapsed time on disc, remaining time on disc, program in memory. 11.1 lb; 17.25 x 3.75 x 11 in. . . . . \$300

**DA952.** As above without remote control. . . . . \$200

## SHARP

### CD Players

#### DX-R780 CD Player

CD player with 20-track random-access programming. Features 10-key direct access; double-oversampling digital filter; FL display; 3-beam pickup; cue and review; auto program search system; repeat function; digital time counter and mode indicator; wireless remote control. . . . . \$300

#### DX-R750 CD Player

Compact disc player with infrared remote control; AMPS; APLD; APSS; cue/review; playback time display in seconds & minutes. 17 x 3.13 x 11.75; 9.7 lb. \$290

#### DX-660 CD Player

CD player with 20-track random-access programming. Features 10-LED sound level meter; auto program search system; cue and review; repeat function front-loading disc table. . . . . \$230

#### DX-650 CD Player

Compact disc player with 3-beam laser; 20-selection random-access programming; AMPS; cue/review; repeat function; front-loading disc table. . . . . \$210

### CD Changer

#### DX-C5000 CD Changer

Magazine-type CD changer with 6-disc capability.

# COMPACT DISC PLAYERS

Features 32-track random-access programming; memory backup function; single and all repeat function; double-oversampling digital filter; FL display; APSS (auto program search system); monitor search; cushioned floating mechanism . . . . . \$400

## Portable CD Players

### Optonica CDX-17 Portable CD System

Portable CD player/double cassette deck/AM/FM stereo. Tuner: 10 AM/20 FM station presets; S/N 60 dB stereo; alt ch sel 55 dB. CD: double-oversampling digital filter; 3-beam pickup; 20-track APMS random programming; random play; repeat play; continuous play; FR 20-20,000 Hz  $\pm$  1 dB; S/N > 90 dB. Cassette: full-logic controls; double autoreverse; one capstan; w&F 0.19% wrms; S/N 62 dB Dolby B. Other features: Dolby B noise reduction; X-Bass sound; 20 W/ch amplifier; 35-key wireless remote control; 2 tripod-mountable speakers with FR 70-20,000 Hz; matrix surround sound capability; digital clock timer; 4-band graphic equalizer. . . . . \$1,000

### WQ-CD83 Portable CD Changer System

Portable 2-disc capacity CD changer/double cassette deck/AM/FM stereo. CD: 16-bit digital filter; 3-beam pickup; 24-track APMS random programming; random play; repeat play; continuous play; FR 20-20,000 Hz. Cassette: full-logic controls; high-speed dubbing; double autoreverse; one capstan; w&F 0.15% wrms; S/N 60 dB Dolby B. Other features: Dolby B noise reduction; X-Bass sound; 3 amplifiers; wireless remote control; 2 speakers; super woofer; matrix surround sound capability; clock timer; 4-band graphic equalizer with LCD spectrum analyzer; APSS. . . . . \$700

### WF-CD77 Portable CD System

Portable CD player/double cassette deck/AM/FM stereo. CD: wireless remote control; 16-bit digital filter; 3-beam pickup; 20-track random programming; random play; repeat play; continuous play. Cassette: full-logic controls; high-speed dubbing; double autoreverse; one capstan. Other features: Dolby noise reduction; two 2-way speakers; clock timer; 4-band graphic equalizer; APSS (Automatic Program Search System) . . . . . \$630

### QT-CD20 Portable CD System

Portable CD player/cassette deck/AM/FM stereo. CD: auto program search system; automatic programmable music selector; 16-bit digital filter; 3-beam pickup; 20-track random-access programming; random play; repeat play. Other features: two 2-way speakers; clock timer; 3-band graphic equalizer. . . . . \$320

## SHERWOOD

### CDP-300R CD Player

Drawer-loading CD player remote compatible with Sherwood remote-controlled receivers. Features programming of 20 tracks in any order; skip forward; skip back; fast forward; fast reverse; one-beam laser; quadruple oversampling digital filtering; 1st-order linear-phase analog filtering; sound audible during fast scan; display for current track number, elapsed time of current track, and elapsed time on disc. 3.25 x 17.36 x 9.75 in; 11 lb. . . . . \$300

### CDP-250R CD Player

Features Sherwood Digi-Link remote compatibility; 3 beam laser pick-up; double oversampling digital filter; 16 selection random programming; motorized front loading disc tray; 3 mode repeat; random-play select; auto space; auto timer play; LCD multi function display . . . . . \$260

### CD-1160R CD Player

Features Sherwood Digi-Link remote capability; 3-beam laser; random programming up to 20 selections; multi-function LCD display; double oversampling digital filter; auto-space for making auto-search capable recording; 4 way repeat feature; motorized

touch-sensitive disc loading; random play alternates playback sequence. 2.8 x 17.3 x 10.2 in . . . . . \$249

## SHURE

### D6000 CD Player

Drawer-loading CD player with wireless remote control including remote volume. Programs 15 tracks in any order. Features subcode output; skip forward; skip back; fast forward; fast reverse; cancel; repeat track; repeat disc; repeat phrase; repeat program. cue by track; cue by time; 19-function remote; headphone jack; adjustable headphone; three-beam pickup; oversamples at 88.2 kHz; independent L/R digital filters 80 dB attenuation; five-pole active above 30,000 Hz analog filtering; dual D/A converters; display of current track number; display of elapsed time of current track; display of program in memory; sound audible during fast scan. Headphone output 5 V; 11 lb; 16.9 x 2.9 x 12.9 in . . . . . \$599

## SONY

### CD Players

#### CDP-707ESD CD Player

Programmable CD player with 8-times-oversampling digital filter. Features CD-3 capability; 18-bit linear dual D/A converters; independent converters for left and right channels; error prediction logic circuit; envelope differential detection system; single aspheric lens laser pickup assembly; noncogging linear motor transport; separate power supplies for digital and analog circuits; direct digital outputs capable of relaying combination digital data and subcode-graphics signals; optical digital output for transmission of data via fiber-optic cable. Also features Custom File which enables programming and storing of special data for up to 226 separate discs. Custom file is comprised of Disc Memo, a ten-character message which is input by the user and then appears on the display after disc has been loaded, Custom Index, which allows user to input 6 marked index locations on any disc, and Program Bank, which stores a particular track selection and playback sequence for each disc . . . . . \$1,800

CDP-507ESD. As above without 18-bit linear dual D/A converters and twin power transformers. Approx. . . . . \$600

CDP-307ESD. As above without 8-times-oversampling digital filter, error protection logic, or coaxial and optical digital outputs. . . . . \$475

#### CDP-950 CD Player

CD player with Remote Commander unit. Features unilinear converter/digital filter; dual D/A converters; envelope differential detection system; mono-coque chassis; 5 power supply stages; aspheric optical pickup; 16-bit digital filter with quadruple-oversampling; 20-key direct music selector and delete shuffle play capability; 20-selection music calendar; Custom File; variable line output; memory backup; CD-3 capability . . . . . \$450

#### CDP-207ESD CD Player

With 20-key direct selection and CD-3 capability. Features 20-selection music calendar; convenient play modes; program edit capability; delete shuffle play and automatic timer play. Comes with Remote Commander. . . . . \$370

#### CDP-750 CD Player

CD player with Remote Commander unit. Features unilinear converter/digital filter; dual D/A converters; envelope differential detection system; mono-coque chassis; 5 power supply stages; aspheric optical pickup; 16-bit digital filter with quadruple oversampling; 20-key direct music selector and delete shuffle play capability; 20-selection music calendar; CD-3 capability . . . . . \$370

#### CDP-550 CD Player

CD player with Remote Commander unit and CD-3

capability. Features unilinear converter/digital filter; dual D/A converters; envelope differential detection system; mono-coque chassis; 16-selection music calendar; fluorescent display; various repeat modes; program edit capability; shuffle play; headphone output level control and auto timer play . . . . . \$280

### CDP-350 CD Player

CD player with shuffle play and CD-3 capability. Features unilinear converter/digital filter; dual D/A converters; envelope differential detection system; mono-coque chassis; 16-selection music calendar; fluorescent display; various repeat modes; program edit capability; shuffle play; headphone output level control and automatic timer play . . . . . \$240

### CD Changers

#### CDP-C15ESD CD Changer

10-disc CD changer with DiscJockey cartridge-loading system. Features 18-bit 8-times-oversampling digital filter; dual 18-bit linear D/A converters; direct digital output; EPL (error prediction logic); left/right twin circuit configuration; 9-section multiple power supplies. Also features Custom File which enables programming and storing of special data for up to 226 separate discs. Custom File is comprised of Disc Memo, a ten-character message which is input by the user and consequently appears on the display every time disc has been loaded, Custom Index, which allows user to input 6 marked index locations on any disc, and Program Bank, which stores a particular track selection and playback sequence for each disc. Also features 10+10 key direct-access; 20-selection random music sensor; high-speed search; automatic music sensor; 4 repeat modes; music calendar. \$800

#### CDP-C100 CD Changer

10-disc CD changer employing magazine compatible with Sony car changers. Features unilinear converter; quadruple-oversampling digital filter; envelope differential error detection system; multiple power supplies; aspheric optical pickup; 3-beam laser; Custom File . . . . . \$620

#### CDP-C7ESD CD Changer

5-disc carousel CD changer with Remote Commander unit. Features quadruple-oversampling 16-bit digital filter; dual D/A converters; Custom File; 16-selection music calendar; shuffle play; timer switch; variable line output; disc select and output level controls. . . . . \$480

#### CDP-C70 CD Changer

5-disc carousel CD changer. Individual discs can be selected at the touch of a button or by using the Disc Select key on the supplied Remote Commander. Discs can be played sequentially, or up to 32 selection can be programmed to play in any order. Features unilinear converter; quadruple-oversampling digital filter; envelope differential error detection system; multiple power supplies; aspheric optical pickup; three-beam laser; shuffle play; 16-selection music calendar; timer switch; headphone output with level control; Custom File; variable line output . . . . . \$450

#### CDP-C50 CD Changer

5-disc carousel CD changer. Individual discs can be selected at the touch of a button or by using the Disc Select key on the supplied Remote Commander. Discs can be played sequentially, or up to 32 selection can be programmed to play in any order. Features unilinear converter; quadruple-oversampling digital filter; envelope differential error detection system; multiple power supplies; aspheric optical pickup; three-beam laser; shuffle play; 16-selection music calendar; timer switch; headphone output with level control. . . . . \$350

### Portable Compact Disc Players

#### D-T10 Portable CD Player

Lightweight CD player with AM/FM quartz tuner.





# Exact Engineering for Exacting Engineers



THE AXIOM AX 5 REFERENCE LOUDSPEAKERS HAVE EARNED RECOGNITION BY SEVERAL ESTEEMED RECORDING STUDIOS THROUGHOUT NORTH AMERICA AS THE MOST ACCURATE LOUDSPEAKERS AVAILABLE. IRRESPECTIVE OF PRICE.

PICTURED HERE ARE THE AX 5 REFERENCE LOUDSPEAKERS IN THE SYNCLAVIER ROOM AT LE STUDIO, MORIN HEIGHTS IN QUEBEC, CANADA. LE STUDIO, FAMOUS FOR RECORDING ARTISTS SUCH AS DAVID BOWIE, THE POLICE, COREY HART AND CAT STEVENS, IS ONE OF THE MOST TECHNOLOGICALLY ADVANCED STUDIOS IN THE WORLD. WHEN PERFORMANCE AND ACCURACY ARE IMPORTANT, AXIOM IS THE CHOICE OF THE PROFESSIONALS. WE HOPE YOU MAKE IT YOURS.

CIRCLE NO. 68 ON READER SERVICE CARD

AXIOM, HWY. #60, DWIGHT, ONTARIO, CANADA POA 1H0 (705) 635-2222

# COMPACT DISC PLAYERS

Features AMS (automatic music sensor); programming of 21 tracks in any order; 5 repeat modes; skip forward and skip back; audible fast forward and reverse; auto-tracking recovery; oversampling digital filter; pulse-width-modulation integrated circuit to reduce power consumption to 1.8 W; ultra-thin 3-beam optical pickup with a single aspheric plastic lens; laser pickup assembly integrated with an elastic damper arm. Tuner section features 5AM/5FM station presets; local/DX switch. Remote controllable with optional remote commander (RM-DM1K). Includes BP-100 rechargeable battery; AC adaptor; connecting cords; soft carrying case; shoulder strap. . . . \$460

## D-15 Portable CD Player

Features unilinear converter/digital filter; single aspheric lens laser pickup; auto tracking recovery system; internal battery system; BP-2 rechargeable battery; random music sensor 21-track programming; four repeat modes including track, disc, A/B, and shuffle; remote control with RM-DM1K remote commander; multi-function back-lit liquid crystal display including battery strength indicator; index search; key hold switch. Includes AC adaptor, rechargeable battery, line-out jacks, carrying case, and strap. 1.03 x .8 x 5.3 in. . . . \$360

## D-T4 Portable CD Player

Portable CD player with AM/FM tuner. Features unilinear converter/digital filter; single aspheric lens laser pickup; auto tracking recovery system; BP-3 rechargeable battery; random music sensor 16-track programming; four repeat modes including 1, all, A/B, and shuffle; remote control with RM-DM1K remote commander; multi-function back-lit LCD including battery strength indicator; local/DX switch. Comes with AC power adaptor, line-out cord, carrying case, and strap. . . . \$320  
D-4. As above without tuner. . . . \$260

## D-160 Portable CD Player

Features AMS auto music sensor; skip forward; skip back; unilinear converter; digital filter; 3-beam laser; back-lighted LCD panel; built-in anti-shock servo with fully floating mechanism for accurate tracking; AC/DC operation; line output; headphone jacks. Includes CPA-1 car cassette adaptor, CPM-100P car mounting plate; patch cords, AC adaptor, and carrying strap. Remote controllable with optional RM-DM1K remote commander. . . . \$260

## SONOGRAPHE BY CONRAD-JOHNSON

### SD-1 CD Player

Drawer-loading CD player with discrete FET audio circuits and power supplies designed by Conrad-Johnson. Features programming of 20 tracks in any order; skip forward; skip back; fast forward; fast reverse; repeat disc, program; headphone jack; digital filtering; dual D/A converters; sound audible during fast scan. Cues by track and index number. Oversamples at 176.4 kHz. Displays current track number, program in memory; elapsed time of current track. 3.75 x 18 x 12-in.; 8.5 lb. . . . \$695

## SOUNDCRAFTSMEN

### CD750 CD Player

CD player with differential/comparator circuitry. Features high dynamic range; optional tening; spectral gradient circuit; both circuits bypassable; indexing; digital filter; all-metal chassis; audible scan; random; passage-repeat; 3-beam laser; full function infrared remote control; oversampling; multi-function fluorescent display; variable volume control headphone jack; gold-plated output jacks; shock-mounted disc-handling; 19 x 3.25 x 12 in. . . . \$599

## SYLVANIA

### CD1473 FTS CD Player

Favorite Track Selection memorizes programs from

various discs (up to 785 tracks); touch-close drawer; 24-function remote control with 10-digit keypad and volume control. . . . \$379

### CD1471 CD Player

Programs 20 tracks in any order; 3-speed search (music audible at 2 slower speeds); quadruple oversampling digital filter; dual 16-bit D/A converter; skip forward and back; time or track display. . . . \$280

### CD1465 FTS CD Player

With Favorite Track Selection to memorize programs from various discs (up to 785 tracks); dual 16-bit D/A converters. . . . \$279

### CD1470 CD Player

CD player with 16-bit D/A converters. Features random access programming; 20-track capability; 3-speed forward/reverse search; next/previous track skip; digital filtering. Includes 1 free 67-minute Jazz Sampler disc. . . . \$229

### CD1480 CD Player

CD player with 16-bit D/A converters. Features 3" CD compatibility; shuffle play; 20-track memory; CDM4 laser scanning assembly. . . . \$199

## SYMPHONIC BY FUNAI

### CD 3000A CD Changer

CD changer with Pioneer-style cartridges with 6-disc capability. Features 16-bit D/A converter; 3-beam laser pickup; wireless remote control; 32-track random programming; repeat track, disc, and program; search function; elapsed time display. . . . \$379

### CD 2000A CD Player

Drawer-loading CD player with 16-bit D/A converter. Features 3-beam pickup; CD-3 capability; 15-track random programming; feather-touch controls; programmable repeat function; amber elapsed-time display LCD; headphone jack with adjustable level; wireless remote control. . . . \$229

### CD 1100 CD Player

Drawer-loading CD player with 16-bit D/A converter. Features 3-beam pickup; 15-track random programming; feather-touch controls; programmable repeat function; amber elapsed-time display LCD. . . . \$199

## TANDBERG

### TCP 3015A CD Player

Features 16-bit quadruple oversampling; zero negative feedback; no capacitors between the two D/A converters and the line output; digital filter and phase-linear Bessel audio filter; full programmability; separate headphone output volume control. Rosewood side panels and remote control optional. 17.13 x 13.5 x 13.75 in.; 12.5 lb. . . . \$2,500

## TEAC

### PD-470 CD Player

3 beam laser system with twin monaural 16-bit linear D/A converters, 4x oversampling digital filter; 20 selection random memory programming; 20 selection memory program calendar; full function wireless remote; fluorescent display shows track number, index numbers, elapsed time, program or disc remaining time, remaining time of each selection, and program or disc total time. FR 2-20,000 Hz; S/N > 95 dB; THD .005%; 4.56 x 17.13 x 11.19 in.; 8.38 lb 5400

### PD-425 CD Player

3 beam laser with 16 bit linear D/A converter. 15 selection random memory programming; wireless infrared remote control; program skip; repeat track, disc and program; multi-function LED display; fast forward or reverse manual search. FR 5-20,000 Hz  $\pm$  1 dB; S/N > 92 dB; THD.005%; 3.38 x 17.13 x 11.19 in.; 8.82 lb. . . . \$280  
PD-160. Similar to above without remote. . . . \$250

## TECHNICS

### CD Players

#### SL-P1300 Professional CD Player

CD player with 8-times-oversampling digital filter and infrared remote control. Features 4 D/A converters (2/ch); 18-bit high resolution signal processing; A/B repeat;  $\pm$  8% pitch control; optical and electrical digital outputs; 2-speed search dial; audible pulse; rocker switch for mixing; cueing by direct CD time code; balanced outputs; wired remote control; 10-



button keypad; auto-cue; separated digital and analog power supplies; class AA sample and hold circuit; class AA output; high-speed linear-motor access system; skip keys; 2-speed audible search; repeat track, disc, and program; headphone jack with adjustable level; line out via unbalanced (phono) pin connectors; balanced output; sub-code output; full-function FL display; cue search. 6.7 x 16.9 x 14.8 in. . . . \$1,700

#### SL-P1200 Disco CD Player

Top-loading CD player for discos or production cues to any point within track. Rocker control for momentary advance or retard. Features quartz-locked pitch control ( $\pm$  8%); 2-speed cueing; rear-panel remote jack for mixer; infrared remote control; auto cue to first note of desired track; FL display; twin high-speed D/A converter; double oversampling (88.2 kHz) digital filter; 9th-order low-pass analog filter; 1-beam laser; high-speed Linear Motor Access locates track start in < 1 sec; subcode output; skip forward; skip back; fast forward; fast reverse; sound audible during fast scan; repeat track, disc, program; programming of 20 tracks in any order; headphone jack with adjustable level. Cues by track number, index number, time. Displays current track number, elapsed time of current track, elapsed time on disc, remaining time on disc, remaining time in track, program in memory. 17 x 7 x 15 in.; 22 lb. . . . \$1,295

#### SL-P1000 CD Player

Features wireless remote with volume control; 20-track programming; A-B repeat; program repeat; headphone jack with level control; electrical and optical outputs; 10-key number pad on unit and remote; 2-speed search dial; programmable music scan; 8-digit display of track number, index number, time for current track, disc, or program; separate digital and analog circuits; gold-plated output jacks; 96th-order double oversampling (88.2 kHz) digital filter; 7th-order analog filter; high-speed laser transport; high-rigidity 3-layer base; 2 D/A converters; Class AA isolates voltage amp from sample-and-hold circuit; dual power supplies. . . . \$1,000

#### SL-P990 CD Player

CD player with quadruple-oversampling digital filter and remote control. Features 4 D/A converters (2/ch); 18-bit high-resolution signal processing; auto-cue; separate digital and analog power supplies; optical and electrical digital outputs; signal output meters; oxygen-free wiring; full-function FL display; linear matrix track and programming indicator; 20-key direct access; random play; headphone jack with adjustable level; disc window; high-speed linear-motor access system; 5-layer anti-vibration chassis; 2-speed audible search; peak level search for tapping; CD edit; music scan; A/B repeat; track repeat; dimmer switch; gold-plated output jacks; 32-track programming; timer play. . . . \$825



---

**TO ALL THOSE  
WHO ALREADY  
OWN A  
CD PLAYER,**

**OUR CONDOLENCES.**

---



# ACCULINEAR 18-BIT TECH



## ENTER THE NEW

Everything has limitations. Including conventional CD players.

That's because 16-bit digital processing simply isn't accurate enough to retrieve all the data that's on a disc. So some of the music is lost.

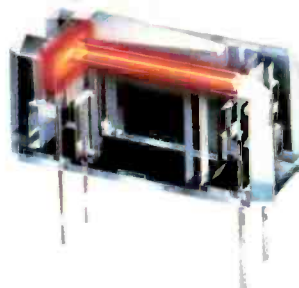
Onkyo's linear 18-bit technology, on the other hand, assures you that all the musical information gets processed. So you don't lose anything. Even the subtle clues that tell you about the space the music was recorded in. And how well the engineer chose the microphones.



Dual Acculinear D/A Converters with calibrated accuracy to the 4th Significant Bit.

But getting all the data off the disc is only the first step. Getting it to your ears is at least as important.

That's why Onkyo developed the Acculinear D/A Converter. And individually calibrates each one to minimize crossover distortion. This unprecedented accuracy means you'll be able to listen to music, even at low levels, and still hear the delicate harmonic structures that distinguish a Gibson guitar from a Martin.



Exclusive Opto-Coupling Modules use light to transmit digital data and reduce harshness.

Onkyo's extensive use of optical transmission techniques instead of conventional wiring further increases musical enjoyment. Proprietary Opto-



TECHNOLOGY FROM ONKYO.



# DIGITAL DOMAIN

Coupling Modules at critical circuit junctions eliminate Digital Signal Interference (DSI) and its consequent metallic harshness. So you can enjoy the sound of the Philadelphia Symphony without wondering if the entire string section was playing aluminum violins.

The power supply combines low impedance/low loss transformers, regulators, and capacitors for high stability and isolation.



Dual transformers in the DX-7500 thoroughly isolate digital and analog stages.

In addition, the critical D/A converters benefit from Opto-Drive, a new Onkyo technology that uses LED/phototransistor arrays for the ultimate in current stability and operating accuracy. Which

means that any sonic variations you hear will be in the music, not in the disc player.

And the best part? We didn't reserve these technical innovations for one outrageously expensive flagship model. All the musical benefits are affordable.

Yes, this is the New Digital Domain.

Audibly significant technology.  
Enhanced musical enjoyment.

The New Digital Domain.  
Starting at less than \$600.

Enter it today at your Onkyo dealer.

## ONKYO

200 Williams Drive, Ramsey, N.J. 07446 201-825-7950

If you would like further information, write for the White Paper on digital technology.



For your convenience, ONKYO and THE BUYERS GUIDE are providing this special toll free number so you can find out about our new 18 Bit Players. Just call 1-800-678-8237, and when asked, enter 34520.

# COMPACT DISC PLAYERS

## SL-P770 CD Player

CD player with quadruple-oversampling digital filter and remote control. Features 4 D/A converters (2/ch); 18-bit high-resolution signal processing; auto-cue; separate digital and analog power supplies; optical and electrical digital outputs; signal output meters; oxygen-free wiring; full-function FL display; linear matrix track and programming indicator; 20-key direct access; random play; headphone jack with adjustable level; disc window; high-speed linear-motor access system; 2-speed audible search; peak level search for taping; CD edit; music scan; A/B repeat; track repeat; dimmer switch; gold-plated output jacks; 32-track programming; timer . . . \$620

## SL-P550 CD Player

CD player with quadruple-oversampling digital filter and remote control. Features 32-track random-access programming; dual DA converters; electrical digital output; signal output meter; full-function FL display; linear matrix track and programming indicator; 10-key direct access; random play; headphone jack with adjustable level; high-speed linear-motor access system; disc window; high speed transport; peak level search for taping; CD edit; A/B repeat; track repeat; program repeat; 2-speed audible search . . . \$420

## SL-P350 CD Player

CD player with quadruple-oversampling digital filter and remote control. Features 32-track random-access programming; dual DA converters; electrical digital output; signal output meter; full-function FL display; linear matrix track and programming indicator; 10-key direct access; headphone jack with adjustable level; high-speed linear-motor access system; high speed transport; peak level search for taping; CD edit; track repeat; program repeat; 2-speed audible search . . . \$340

## SL-P250 CD Player

CD player with quadruple-oversampling digital filter and remote control. Features 20-track random-access programming; dual DA converters; full-function FL display; linear matrix track and programming indicator; 10-key direct access; headphone jack with adjustable level; high-speed linear-motor access system; high speed transport; peak level search for taping; track, disc, and program repeat; random play; music scan . . . \$300

## SL-P230 CD Player

CD player with quadruple-oversampling digital filter and remote control. Features 20-track random-access programming; dual DA converters; full-function FL display; linear matrix track and programming indicator; 10-key direct access; headphone jack with adjustable level; high-speed linear-motor access system; high speed transport; track, disc, and program repeat; random play; music scan . . . \$280

## SL-P200 CD Player

CD player with quadruple-oversampling digital filter. Features 20-track random-access programming; dual DA converters; full-function FL display; linear matrix track and programming indicator; headphone jack with adjustable level; high-speed linear-motor access system; high speed transport; track, disc, and program repeat; remote-compatible . . . \$250

## SL-P150 CD Player

CD player with quadruple-oversampling digital filter. Features 20-track random-access programming; dual DA converters; FL display; high-speed linear-motor access system; high speed transport; track, disc, and program repeat; remote-compatible . . . \$240

## SL-XP6 Portable CD Player

Compact, lightweight portable CD player with normal, resume, and random play modes. Features skip keys; memory key; 18-step random-access programming; play; stop; quadruple-oversampling digital filter; AC adaptor; auto power off after 5 minutes in stop mode; headphone jack with adjustable level;

repeat; search; line-out jack; LCD display. 1.09 x 5 x 5.09 in; 13.4 oz. . . . . \$349

## SL-XP5 Portable CD Player

Top-loading portable CD player with FF1 single-beam laser. Features programming of 18 tracks in any order; skip forward; skip back; fast forward; fast reverse; cancel; repeat track, disc, program; headphone jack with adjustable level; digital filtering; single D/A converter; sound audible during fast scan. Oversamples at 88.2 kHz. Displays current track number, elapsed time of current track, elapsed time on disc, remaining time on disc, program in memory. With carrying case and power supply. 4.97 x 0.91 x 4.97 in. . . . . \$325

## CD Changers

### SL-P600C 6-Disc CD Changer

Plays 6 discs in magazine; wireless remote; 36-track random programming; 10-key number pad on unit and remote; headphone jack with volume control; high-speed access with 2-purpose search/skip buttons; display of number of tracks, programmed tracks, current track, elapsed time; random and repeat play; floating isolation system; quadruple-oversampling digital filter . . . . . \$470

### SL-P400C 6-Disc CD Changer

Plays 6 discs in magazine; wireless remote; 36-track random programming; 10-key number pad on unit and remote; headphone jack with volume control; high-speed access with 2-purpose search/skip buttons; FL display; random and repeat play; quadruple-oversampling digital filter . . . . . \$420

### SL-P300C 6-Disc CD Changer

Plays 6 discs in magazine; remote-compatible; 36-track random programming; 10-key number pad on unit and remote; headphone jack with volume control; high-speed access with 2-purpose search/skip buttons; FL display; random and repeat play; quadruple-oversampling digital filter . . . . . \$299

## TOSHIBA

### CD Players

#### XR-9037 CD Player

Remote control w/volume control; digital peak search; 20-program random memory; double oversampling and digital filter . . . . . \$450

#### XR-9018 CD Player

CD player with 16-track random programming. Features double-oversampling digital filter; 3-beam laser pickup; quick-program-selector up/down key; automatic repeat capability; LCD with track, lap, and remaining time; fast forward and reverse; integrated system remote capability; headphone jack with adjustable level. . . . . \$279  
XR-9028. As above, 10-key remote control . . . \$329

### CD Changers

#### XR-9057 CD Changer

CD changer with 6-disc capacity and single-play drawer. Features 32-track random programming; double-oversampling digital filter; 3-beam laser pickup; 32-key wireless remote control; intro scan; random play; 9-digit multi-function display; cumulative time display; 10x audible search; fast forward and reverse; system remote capability . . . . . \$499  
XR-9058. As above with system remote. . . . . \$599

### Portable CD Players

#### XR-9458 Portable CD Player

Portable CD player with wireless/wired remote control. Features 3-beam laser pickup; 16-program random memory with repeat; headphone jack with adjustable level; LCD of track, lap, and remaining time; CD-3 capability. . . . . \$470

## XR-9437 Portable CD Player

Compact CD player with AM/FM stereo. 9 FM/5 AM presets; 3 beam laser pick-up; 16-program random memory w/repeat; quick-program select; uses 4 AA batteries or rechargeable NiCad . . . . . \$400

## RT-8088 Portable CD System

Portable CD player with built-in cassette deck, tuner, and speakers. CD section features 20-program random memory; CD-double-speed recording system; CD-auto-recording system; 20-song music calendar and integrated digital time counter; intro scan; auto spacing; random play; auto sleep. Cassette section features autoreverse; manual reverse; 3-band graphic equalizer . . . . . \$400

## VECTOR RESEARCH

### CD Players

#### VCD-900 CD Player

Drawer-loading CD player with full-function remote control (10-key direct-track access, remote volume control). Features programming of 15 tracks in random and sequential order; skip forward; skip back; fast forward; fast reverse; cancel; repeat track, disc, phrase, and program; 3-beam laser; digital and analog filtering; single D/A converter; sound audible during fast scans. Cues by track number. Oversamples at 88.2 kHz. Displays current track number, elapsed time of current track, elapsed time on disc; program in memory. 17 x 3.5 x 12.5 in; 11 lb. \$399

#### VCD-400 CD Player

Drawer-loading CD player with wireless remote control. Features 3-beam pickup; display of elapsed time and track number; 2-speed audible cue and review; repeat disc and program; automatic disc-load/play; 15-track programmable music search system; digital filtering and oversampling. FR 20-20,000 Hz  $\pm$  0.75 dB; dynamic range >92 dB; S/N >95 dB; THD <0.05%. 17 x 3 x 12.25 in; 8.5 lb. . . . . \$259

### CD Changers

#### VCD-650CX CD Changer/Cassette Deck

Combination 6-disc capacity CD changer and full-logic cassette deck. Features double-oversampling digital filter; synchro-dubbing; 32-track random programming; auto pause; shuffle play; repeat all discs, one disc, track, or program; LCD; headphone jack; remote control; Dolby B and C NR; separate L & R record controls; one-touch dubbing; music search. Compatible with JVC magazines . . . . . \$599

#### VCD-600R CD Changer

CD changer with double-oversampling digital filter and 6-disc capacity. Features LCD which displays disc, track, and time simultaneously; audible cue and review; shuffle play; 32-track random programming; direct disc access from remote; repeat of all discs, one disc, track, or program; headphone jack. Compatible with JVC magazines. . . . . \$449

#### VCD-500C CD Changer

Magazine-type CD changer with 6-disc capacity. Features 3-beam laser pickup; audible cue and review; 32-track random programming; wireless remote control; LCD which displays disc, track, and time simultaneously; repeat of all discs, one disc, track, or program. FR 20-20,000 Hz  $\pm$  0.75 dB; dynamic range >92 dB; S/N >96 dB; THD <0.01%. Compatible with Pioneer magazines. 16.5 x 3.5 x 13; 11.25 . . . . . \$449

## YAMAHA

#### CDX-10000 CD Player

Limited centennial edition compact disc player with wireless remote control. Features hi-bit quadruple oversampling digital filter; hi-bit D/A converter; 20-bit digital volume control; high-speed linear motor; internal photo-optical coupling; output level control;



digital-out terminals; heavy-duty chassis; 24-track direct access play; random play; front-panel headphone jack; gold-plated connection terminals. Titanium grey with high luster walnut end panels. \$3,000

**CDX-5000 CD Player**

Drawer-loading CD player with 44-key wireless remote control. Features hand-selected parts; double floating suspension design; super-high-speed access; hi-bit quadruple oversampling digital filter; hi-bit D/A converter; Hi-bit digital volume control; photo-optical coupling; dual-transformer shunt-regulated power supplies; digital-out terminals; random play; index search; front panel headphone jack; integrated remote system compatible. Black; 55 lb. . . . \$2,200

**CDX-1110U CD Player**

CD player with hi-bit direct output. Features 18-bit 8-times-oversampling digital filter; dual D/A converters; 20-bit digital volume control; microcomputer-controlled 2-way servo system; independent transformer shunt-regulated power supply; optical and coaxial digital output connectors; high-speed linear motor provides 0.8 second access speed; 3-beam laser pickup; 44-key wireless remote control; 24-track direct access; 24-track random access programming; random play; calendar display; 4-way repeat; index search; 3-way music search; gold-plated terminals; integrated remote control capability. . . . \$1,199

**CDX-910U CD Player**

CD player with hi-bit direct output. Features 18-bit 8-times-oversampling digital filter; dual D/A converters; 20-bit digital volume control; microcomputer-controlled 2-way servo system; optical and coaxial digital output connectors; 3-beam laser pickup; 46-key wireless remote control; 24-track direct access; 24-track random access programming; calendar display; 4-way repeat; index search; 3-way music search; gold-plated terminals; integrated remote control capability. . . . \$699

**CDC-610U CD Changer**

CD changer with 10-disc magazine. Features 18-bit quadruple-oversampling digital filter; D/A converter; 3-beam pickup; microcomputer-controlled 2-way servo system; 24-track random access programming; memory play; random play; disc scan; music scan; wireless remote control; 3-way repeat; index search; 3rd order low-pass analog filter; headphone jack with adjustable level. . . . \$599

**CDX-810U CD Player**

CD player with hi-bit direct output. Features 18-bit 8-times-oversampling digital filter; dual D/A converters; microcomputer-controlled 2-way servo system; 3-beam laser pickup; 44-key wireless remote control; 24-track direct access; 12-track random access programming; calendar display; 3-way repeat; index search; 3-way music search; gold-plated terminals; integrated remote control capability; coaxial digital output. . . . \$549

**CDX-510U CD Player**

CD player with hi-bit direct output. Features 18-bit quadruple-oversampling digital filter; 16-bit D/A converter; microcomputer-controlled 2-way servo system; 3rd order Bessel-type analog low-pass filter; 3-beam laser pickup; 22-key wireless remote control; 24-track random access programming; calendar display; 3-way repeat; index search; 3-way music search; gold-plated terminals; integrated remote control capability; coaxial digital output; headphone jack with adjustable level. . . . \$329

**CDX-410U CD Player**

CD player with double resolution digital filter. Features 3-beam pickup; 16-bit D/A filter; 3rd order Bessel-type analog low-pass filter; 24-track random programming; index search; 3-way repeat; auto space insert; 3-way music search; headphone jack; microcomputer-controlled 2-way servo system. . . . \$279

*Legacy Loudspeaker Systems*

**For the discerning audiophile:**

- Samarium Cobalt laser supertweeters
- European ferrofluid dome drivers
- Cast magnesium frame m dranges
- Polypropylene woofers in a proprietary configuration
- Phase-correct crossover design
- 24K Gold binding posts
- Elegantly crafted cabinetry
- Solid ten year warranty

**distributed exclusively by:**  
**REEL TO REEL DESIGNS**  
**2105 CLAREMONT**  
**SPRINGFIELD, IL 62703**  
**(217) 529-8796**

CIRCLE NO. 82 ON READER SERVICE CARD

**Headphones that work with your ears, not against them.**



DT 990 headphones use "diffuse sound field equalization," based on new studies of how the human ear affects sound. This design produces a flat frequency response, accurately recreating the experience of the listening environment.

Hostaphan™ diaphragms and Neodyme™ magnets are two more reasons DT 990s have won technical and critical acclaim in Europe and America. They "... delivered a superb sound" and were "... remarkably comfortable to wear" according to Stereo Review.

So if you enjoy losing yourself in the music, start by finding the Beyer dealer in your area. Call the reader response number below, or write — **beyerdynamic US, 5-05 Burns Avenue, Hicksville, NY 11801.**



ACCURACY IN AUDIO

beyerdynamic

Canada: ELNOVA 4150 rue Stee, St. Laurent, Quebec H4T 1E6 Tel. (514) 341 59 36 Tdx: 5824086

CIRCLE NO. 2 ON READER SERVICE CARD

IF SOMEONE TRIES  
TO SELL YOU A  
\$2,000 CD PLAYER,  
COVER YOUR EARS.

The new Koss Pro/450™ Stereo-phones deliver ultra-smooth, distortion-free sound and provide an excellent way of determining whether a high-priced audio component is really worth its

high-price. It's all possible thanks to Koss' new dual-element design. Each earcup contains a neodymium element for crisp mids and highs, plus a low-frequency poly-driver for extraordinary bass response. Everything else about the Pro/450 is first-class, too. From the oxygen-

free copper wiring and two detachable cords, to the unique earcup spider assembly and genuine leather headband that make it as comfortable to wear as it is to listen to. So if high-end sound is what you're after, audition the new flagship of our professional stereo- phone line. You'll find that the Koss Pro/450 has the high-end covered. • 4129 N. Port Washington Road, Milwaukee, WI 53212. Koss Limited: Burlington, Ontario. Koss Europe: Stabio-Switzerland. For more information call 1-800-USA-KOSS.

**KOSS**  
stereophones

CIRCLE NO. 55 ON READER SERVICE CARD





# CASSETTE DECKS



## ACOUSTIC RESEARCH

### RD-06 Cassette Deck

Features Dolby B, C, and HX-PRO, S/N 64 dB, Dolby B; 73 dB, Dolby C; 55 dB, no Dolby. Wow and flutter 0.035 WRMS; brushless direct drive FG servo DC motor; rec/play sendust core head; ferrite core erase head. . . . . \$499

### a/d/s/

### C4 3-Head Dolby B/C/HX Pro Cassette Deck

Microprocessor operating system for digital recording-level and balance controls; full status displays; remote controlled through a/d/s/ R4 receiver or CC4 tuner/preamp; auto bias/EQ for all tape types; memorizes adjustable bias and level settings for each tape type; displays elapsed or remaining time; quartz-controlled PLL capstan motor drive in die-cast metal chassis; timer record and play; auto repeat; music search; mic/line mixing; adjustable headphone output; LED rec-level meters; rec-level range 80 dB in 1-dB steps. Speed deviation <0.5%; W&F <0.04% wtd rms; FR with all tape types 20-20,000 Hz  $\pm$  2 dB; S/N >74 dBA with Dolby C and metal tape (optional onboard NR system extends S/N to >93 dBA). 2.75 x 17.5 x 14.8-in; 20 lb. . . . . \$1,400

### RC1 Unified Remote Control

Infrared wireless remote controls CC4, R4 receiver, and other a/d/s/ components . . . . . \$150

### Atelier C3 2-Speed Cassette Deck

Records and plays at 1.88 ips (standard speed) and 3.75 ips (double speed). Remote controlled through a/d/s/ R4 receiver or CC4 tuner/preamp. Quartz-PLL direct-drive-capstan multiple-pole outer-rotor motor; repeat; mic/line mixing; 3 heads; 2 motors; Dolby B; Dolby C; music search; memory stop/play; LED meters; headphone jack. W&F standard speed 0.04% wrms, high speed 0.035%; FR (with all tape types) standard speed 20-20,000 Hz h speed 25-22,000 Hz  $\pm$  2 dB; S/N (A-wtd, all tape types) standard speed: >66 dBA Dolby B, >74 dBA Dolby C, high speed: >60 dBA no NR, >68 dBA Dolby B, >76 dBA Dolby C. 2.75 x 17.5 x 14.8-in . . . . . \$1,000

## AIWA

### AD-WX909 Autoreverse Double Cassette Deck

Features 3 heads with micro-grain-surfaced capstan; auto tape/source monitor selector; ADMS (auto demagnetizing system); Dolby HX Pro (deck 2); Dolby B & C (both decks); gold-plated CD inputs and LINE/CD front panel selector; high-speed dubbing; feather-touch IC logic controls; independent digital tape counters; bias fine adjustment for CrO<sub>2</sub>/normal-bias tape ( $\pm$  20%); music sensor (both decks); continuous playback. w&F 0.0055% deck 1, 0.028% deck; S/N 80 dB with Dolby C, metal tape above 5,000 Hz; FR 10-17,000 Hz normal-bias tape, 10-19,000 Hz high-bias, 10-20,000 Hz metal. 4.38 x 16.94 x 11.75-in; 14.5lb. . . . . \$750

### AD-A70U Autoreverse Cassette Deck

Cassette deck holds up to 5 cassettes for quick-reverse 15-selection random-programmed playback and sequential-timed recording. Features 4 motors; Dolby B & C; blank skip; music search; rec mute; headphone jack; LED meters; electronic tape counter; auto tape

selector. w&F 0.06% wrms; FR metal 30-15,000 Hz  $\pm$  3 dB; S/N metal 78 dB Dolby C. 4.25 x 13 x 13.62-in; 13.2 lb. . . . . \$650

### AD-F780 Three Head Cassette Deck

Three head cassette deck incorporating Super DX recording and playback heads enclosed in a heavy-duty die-cast alloy head block. Features Anti-Modulation Tape Stabilizer (AMTS); Dolby HX Professional, B, and C noise reduction, manual recording



calibration system, feather touch IC logic controls with cue and review, fluorescent display and electronic tape counter with memory rewind and repeat, switchable MPX filter, auto tape and rec-mute selectors, and record/play timer standby. FR 20,000 Hz (metal), wow and flutter is 0.035%; S/N 78 dB with Dolby C . . . . . \$450

### AD-180U Double Cassette Deck

Features four channel dubbing that cuts recording time to 25% of conventional models. 2 heads; 2 motors; auto bias/EQ; bias fine tuning; music search; output level control; LED meters; mike inputs; headphone jack; rec mute; 0.25- time dubbing cassette deck random programmable; dubbing playback; random Dolby B & C; 3-way 1-touch synchrodubbing. w&F 0.038% wrms; FR 20-13,000 Hz  $\pm$  3 dB normal-bias tape, 20-15,000 Hz  $\pm$  3 dB high bias, 20-16,000 Hz  $\pm$  3 dB metal; S/N (A-wtd) metal: 66 dB Dolby B, 78 dB Dolby C. 4.38 x 16.56 x 12.75-in; 12.3 lb. . . . . \$450

### AD-WX808 Double Cassette Deck

Autoreverse cassette deck with Dolby HX Pro and Dolby B & C. Features Amorphous head; blank skip continuous playback; double-speed playback; IC logic control; digital tape counter; auto rec mute; rec/timer standby. w&F 0.055% wrms; S/N metal: 78 dB Dolby C, 65 dB Dolby B; FR 20-17,000 Hz normal-bias tape, 20-19,000 Hz high bias, 20-20,000 Hz metal. 5 x 16.94 x 12.31-in; 11 lb. . . . . \$400

### AD-WX707 Double Cassette Deck

Autoreverse cassette deck with Dolby B & C. Features bias fine tuning; continuous playback; feather-touch IC logic controls; high-speed dubbing; auto rec mute; auto tape selector; rec/play timer standby (deck 2). S/N 78 dB Dolby C, 65 dB Dolby B; FR 20-16,000 Hz normal-bias tape, 20-17,000 Hz high bias, 20-18,000 metal. 5 x 16.94 x 12.31-in; 11lb \$275

### AD-R40 Auto Reverse Cassette Deck

Two head autoreverse cassette deck with bi-directional auto rewind in playback. Dolby HX Professional, Dolby B-C noise reduction and 0.3 second autoreverse capability. FR 20-18,000 Hz with Metal tape; wow and flutter 0.065%; S/N 78 dB with Dolby C . . . . . \$200  
AD-S37. Similar to above without autorverse or bi-

directional auto rewind . . . . . \$180

### AD-WX505 Double Cassette Deck

Double cassette deck featuring Dolby band C noise reduction; double speed dubbing; continuous playback; auto tape selector; rec/play timer standby. FR 20-17,000 Hz with metal tape; S/N 78 dB with Dolby C; wow and flutter 0.09%. . . . . \$180

### AD-R30 Autoreverse Cassette Deck

Features 3-way reverse operation for continuous, one cycle, or unidirectional operation; horizontal flat keyboard operation panel; feather-touch IC logic control; Dolby B & C; bias fine tuning; auto rec mute. w&F 0.065% wrms; FR 20-16,000 Hz normal-bias tape, 20-16,000 Hz high bias, 20-17,000 Hz metal; S/N 78 dB Dolby C; rec/play DX head; erase double-gap ferrite. 4.38 x 16.56 x 11.94-in; 11.4 lb. . . . . \$180  
AD-S15. Same as above without autoreverse . \$150  
AD-S27. Same as AD-WX505 (above) but not double cassette . . . . . \$120

## AKAI

### GX-95-B 3-Head Cassette Deck

3-head single cassette deck with super GX 3-head; 3-motor and full-logic control; direct drive; closed loop double capstan; Dolby B/C NR; Dolby HX-PRO system; bias control w/calibration tone; FL display meter; real-time counter; music search; auto-time selector; auto monitor; auto play; rec cancel; spot erase system; A-B memory repeat; auto mute; headphone volume; wireless remote; CD/DAT direct/input; resonance free rigid chassis structure; separate amplifier block . . . . . \$799

### GX-8-B 3-Head Cassette Deck

3-head single cassette deck with super GX 3-head; 3-motor and full-logic control; direct drive; closed loop double capstan; dbx; Dolby B/C NR; bias control; FL display meter; real-time counter; music search; auto tape selector; auto monitor; rec cancel; timer start; high-speed IX amp; anti-resonance construction \$599

### GX-52-B Single Cassette Deck

Single cassette deck with twin-field super GX head; 3-motor and full-logic control; direct drive; Dolby B/C NR; Dolby HX-PRO system; bias control; FL display meter; real-time counter; music search; auto tape selector; auto play; rec cancel; spot erase system; A-B memory repeat; auto mute; headphone volume; remote ready. . . . . \$499

### HX-R453W-B Double Cassette Deck

Double auto reverse cassette deck with high-density head; 3-motor and full-logic control; Dolby B/C NR; high-speed dubbing; continuous play; auto tape selector; music search; intro scan; auto play; blank skip; headphone volume; wireless remote ready \$399

### GN-R60EX-B Autoreverse Deck

Quick and auto reverse cassette deck with twin-field super GX head; 3-motor and full-logic control; dbx; Dolby B/C NR; FL display meter; auto tape selector; music search; power loading/eject; DC amp design; remote ready. . . . . \$399

### HX-R451W-B Double Cassette Deck

Double cassette deck with high density head; 3-motor and full-logic control; 15 random record/play programming; high-speed dubbing; continuous play;

# CASSETTE DECKS

Dolby B/C NR; music search; intro scan; auto play; mic mixing; remote-ready ..... \$379

## GX-32-B Single Cassette Deck

Single cassette deck with twin-film super GX head; 2-motor and full-logic control; Dolby B/C NR; bias control; FL display meter; music search; auto-tape selector; auto mute; auto play; headphone volume ..... \$329

## HX-R41-B Autoreverse Deck

Quick auto reverse deck with high density head; 3-motor and full-logic control; Dolby B/C NR; music search; intro scan; auto play; input jacks; remote ready ..... \$279

## BANG & OLUFSEN

### Beocord 5500 Autoreverse Cassette Deck

Automated recording; Auto Azimuth Guidance; auto Dolby B and Dolby C for play; auto and manual rec level; programs 23 tracks; HX Pro headroom extension; tape loads in motorized drawer; black and silver; remote controlled by Master Control Panel. w&F <0.09% wrms; speed deviation  $\pm 1.5\%$ ; S/N with chrome tape >64 dB Dolby B, >74 dB Dolby C; 16.5 x 3 x 12.75 in; 18.7 lb ..... \$1,100

### Beocord 3300 Dolby B/HX Pro Cassette Deck

Integrates with Beosystem 3300 for remote control from multiple rooms; black plexiglass and brushed aluminum; optional wall brackets; sensi-touch controls; remote controlled from Terminal 3300 remote; communicates with 3300 turntable and CD player for coordinated recording; auto search; meters adjust for tape type; sendust heads; auto demagnetization. w&F <0.07% wrms; speed deviation <1.5%; S/N with chrome tape >65 dB Dolby B; 16.5 x 2.75 x 9.9 in; 8.37 lb ..... \$550

## DENON

### DR-M44HX 3-Head Cassette Deck

Features Dolby HX Pro; Dolby B & C NR; dual-capstan transport; full-logic control transport; computer-controlled silent mechanism; direct-drive FG servo motor; non-slip reel drive; computer-controlled bias fine-tuning; full auto-stop; SF combination head; dual power supply; MPX-filter switch; 4-digit tape counter with memory stop; FL peak level meter; real-time counter; wired remote control; rec pause/mute; one-touch rec/standby; output level control; headphone jack. Includes wood side panels. FR 25-20,000 Hz  $\pm 3$  dB with metal tape; w&F 0.035% wrms; S/N >75 dB (Dolby C) ..... \$650

### DR-M30HX 3-Head Cassette Deck

Features wireless remote control; Dolby HX Pro; Dolby B & C NR; dual-capstan transport; full-logic control transport; computer-controlled silent mechanism; non-slip reel drive; manual bias fine-tuning; full auto-stop; SF combination head; dual power supply; MPX-filter switch; 4-digit tape counter with memory stop; FL peak level meter; balance control; rec pause/mute; auto-space; one-touch rec/standby; output level control; headphone jack. FR 25-20,000 Hz  $\pm 3$  dB with metal tape; w&F 0.045% wrms; S/N >73 dB (Dolby C) ..... \$500

### DR-M24HX Cassette Deck

3 head cassette deck with Dolby HX, B, C NR. Auto tape select; w&F .045% wrms; FR metal tape 205-20,000 Hz  $\pm 3$  dB; S/N > 73 dB (Dolby C NR at 3% THD); 4.52 x 17.08 x 11.25-in; 12.3 lb. .... \$450

### DR-M12HR Cassette Deck

2 head cassette deck compatible with Denon remote control receivers. Dual channel recording amplifiers; Dolby HX, B, C NR; music search fluorescent display; auto tape selector; w&F 0-45% wrms; FR metal 25-18,000 Hz  $\pm 3$  dB; S/N 72 dB with Dolby C at 3% THD; 4.52 x 17.08 x 11.25; 9.9 lb. .... \$350

DR-M10HR. Similar to above ..... \$300

### DR-M07 Cassette Deck

Features Dolby B & C NR; full-logic control transport; manual bias fine-tuning; full auto-stop; SF R/P head; 3-digit tape counter; LED 6-segment peak level meter; balance control; one-touch rec/standby; headphone jack. FR 40-16,000 Hz  $\pm 3$  dB with metal tape; w&F 0.057% wrms; S/N >73 dB (Dolby C) ..... \$250

### Accessories

ACA-20. Side panels for DR-M30HX, M24HX, M12HR, and M10HR cassette decks ..... \$30

## DUAL BY ORTOFON

### CC5050 Cassette Deck

Three-head stereo cassette deck with Dolby B and C NR. FR 20-19kHz  $\pm 3$  dB (metal). Black ..... \$380

## FISHER

### CRW980B Double Cassette Deck

Double cassette deck with autoreverse and 6-function wireless remote control. Features 2 full-logic autoreverse cassette mechanisms (1 record/play, 1 play only); metal tape capability; ASF (Auto Search Function); Dolby B and C noise reduction; sequential play; one-touch high-speed synchronized dubbing. FL record meters; automatic tape selector; timer standby; MPX filter; headphone jack ..... \$400

### CRW880B Double Cassette Deck

Double cassette deck with autoreverse. Features 2 full-logic autoreverse cassette mechanisms (1 record/play, 1 play only); metal tape capability; ASF (Auto Search Function); Dolby B noise reduction; sequential play; synchronized dubbing; 5-LED record meters; automatic tape selector; timer standby; MPX filter; headphone jack ..... \$300

### CRW780B Double Cassette Deck

Double cassette deck with autoreverse. Features 2 autoreverse cassette mechanisms (1 record/play, 1 play only); metal tape capability; Dolby B noise reduction; synchronized dubbing; 5-LED record meters; automatic tape selector on deck 1; timer standby; MPX filter; headphone jack ..... \$250

### CRW86B Double Cassette Deck

Features autoreverse record/playback for deck 1; synchronized one-touch high-speed dubbing; sequential play; Dolby NR; metal tape capability (both transports); soft-touch controls; switchable MPX filter. Black ..... \$250

### CRW680B Double Cassette Deck

Double cassette deck with autoreverse. Features 2 cassette mechanisms; metal tape capability; Dolby B noise reduction; synchronized dubbing; 5-LED record meters; automatic tape selector on deck 1; timer standby; MPX filter; headphone jack ..... \$200

## HARMAN KARDON

### CD491 Dolby B/C/HX Pro Cassette Deck

Ultrawideband cassette deck with direct-drive dual-capstan transport; 3 heads; 2 motors; Dolby B; Dolby C; Dolby HX Pro; bias fine trim with record and bias calibration test-tone oscillators; music search; output level control; memory stop/play; logic control; weighted peak-hold LED meters; mic inputs; mic/line mixing; headphone jack; rec mute. Timer controllable. w&F 0.025% wrms; FR with all tape types 20-24,000 Hz  $\pm 3$  dB; S/N (A-wtd, with high bias tape) 58 dB no NR, 66 dB Dolby B, 75 dB Dolby C. \$1,049

### TD392 Dolby B/C/HX Pro Cassette Deck

3 heads for monitoring during recording; sendust record head, narrow-gap high-density ferrite play head; 1 motor; Dolby B; Dolby C; Dolby HX Pro; solenoid logic transport; bias fine trim with test-tone oscillator; output level control; weighted LED meters; headphone jack; rec mute. w&F 0.05% wrms; FR with all tape types 20-22,000 Hz  $\pm 3$  dB; S/N (A-wtd, with

high-bias tape) 58 dB no NR, 66 dB Dolby B, 75 dB Dolby C ..... \$729

### CD302 Cassette Deck

Cassette deck with sendust record/play head and logic-controlled solenoid transport; Dolby B; Dolby C; Dolby HX Pro; bias fine tuning; output level control; rec mute; headphone jack; defeatable multiplex filter. w&F 0.05% wrms; record-play FR, ferric 20-21,000 Hz  $\pm 3$  dB, high-bias 20-21,000 Hz  $\pm 3$  dB, metal 20-21,000 Hz  $\pm 3$  dB; S/N (A-wtd), high bias 65 with Dolby B, 73 with Dolby C ..... \$529

### TD262 Cassette Deck

Cassette deck with ultrawideband frequency response. Features solenoid transport; Dolby HX Pro;



Dolby B; Dolby C; amorphous head; bias fine trim; 7-LED peak metering system; record mute; memory; MPX filter; metal tape capability; metal chassis \$419

### TD212 Cassette Deck

Cassette deck with ultrawideband frequency response. Features solenoid transport; Dolby B; Dolby C; hard permalloy head; bias fine trim; 6-LED peak metering system; record mute; memory; MPX filter; metal tape capability; metal chassis ..... \$329

## HITACHI

### DW99 Double Autoreverse Cassette Deck

High-speed 1-touch dubbing; 20-part FL peak meter with peak-hold selector; timer rec/play; 4-digit FL counter; music scan; random memory program search; 3 motors; Dolby B and Dolby C; blank skip; memory stop/play; unified-remote-control compatibility. w&F 0.04% wrms; FR ferric 30-14,000 Hz  $\pm 3$  dB, high bias 30-15,000 Hz  $\pm 3$  dB, metal 30-16,000 Hz  $\pm 3$  dB; S/N metal 66 dB Dolby B, 72 dB Dolby C; 12.62 x 3.5 x 14.12 in; 15.5 lb ..... \$500

### DW77 Double Autoreverse Cassette Deck

Logic control; high-speed dubbing; Dolby B and Dolby C; music scan; random memory program search; 4 motors; auto tape selector; timer rec/play; blank skip; LED meters; rec mute; headphone jack; unified-remote-control compatibility. FR ferric 30-14,000 Hz  $\pm 3$  dB, high bias 30-15,000 Hz  $\pm 3$  dB, metal 30-16,000 Hz  $\pm 3$  dB; S/N 66 dB Dolby B, 72 dB Dolby C. 14.5 x 5.12 x 11 in; 10.5 lb ..... \$400

### DW33 Double Autoreverse Cassette Deck

High speed; soft-touch controls; auto tape selector; timer rec/play; continuous play; synchronized dubbing start; 2 motors; Dolby B; blank skip; LED meters; headphone jack. w&F 0.08% wrms; FR ferric 30-14,000 Hz  $\pm 3$  dB, high bias 30-15,000 Hz  $\pm 3$  dB; 30-15,000 Hz  $\pm 3$  dB; S/N metal 65 dB Dolby B. 14.5 x 5.12 x 11 in. .... \$220

## JVC

### TDV711BK Cassette Deck

3 head cassette deck with computer-controlled 2-motor full-logic mechanism. Features monitor-capable discrete 3-head configuration; SA head for record; amorphous head for play; closed-loop dual-capstan drive with direct-drive motor; 2 direct inputs; OFC plating on circuit boards; separate circuit construction; DC-configured amps on separate PC boards; low imp voltage-tracking regulated power supply; high-rigidity chassis; Dolby HX Pro; Dolby B and C noise reduction; MPX filter; FL digital peak display; level meters and digital counter; auto rec mute; music



# CASSETTE DECKS

scan; timer start; auto tape selector; headphone jack with adjustable level; bias control; gold-plated terminals ..... \$620

## TDR611BK Cassette Deck

Cassette Deck with Dolby HX Pro and Dolby B and C noise reduction. Features MPX filter; quick autoreverse; 2-motor full-logic mechanism; SA head; direct input; LC-OFC coil in heads; separate circuit construction; low imp voltage-tracking; high-rigidity chassis; FL digital peak display; level meters; digital counter; auto rec mute; music scan; blank skip; A/B repeat; timer start; auto tape selector; headphone jack with adjustable level ..... \$480

## TDR411BK Cassette Deck

Cassette Deck with Dolby B and C noise reduction. Features quick autoreverse with flip reverse head; computer-controlled 2-motor full-logic mechanism; SA head; LED multi-peak level indicator for each channel; auto rec mute; auto tape selector; headphone jack; tape running indicator ..... \$270

## TDW999BK Double Cassette Deck

Features twin HiFi U-Turn quick autoreverse systems with flip reverse heads in both wells; sequential or simultaneous recording of 2 tapes; computer-controlled full-logic mechanisms; high-speed editing with synchro dubbing; continuous play; Dolby B and C noise reduction; LCD level meters; dual electronic digital counters; auto/synchro rec mute; music scan on both decks; timer start; auto tape selector; headphone jack ..... \$440

## TDW777BK Double Cassette Deck

Features twin HiFi U-Turn quick autoreverse systems with flip reverse heads in both wells; computer-controlled full-logic mechanisms; high-speed editing with synchro dubbing; continuous play; Dolby B and C noise reduction; LCD level meters; dual electronic digital counters; auto/synchro rec mute; music scan on both decks; auto tape selector; headphone jack ..... \$380

## TDW444BK Double Cassette Deck

Features HiFi U-Turn quick autoreverse systems with flip reverse heads on deck B; computer-controlled full-logic mechanisms; high-speed editing with synchro dubbing; continuous play; Dolby B and C noise reduction; LCD level meters; auto/synchro rec mute; auto tape selector; headphone jack ..... \$300

## TDW330JBK Double Cassette Deck

Features two-motor full-logic mechanisms (1 play/rec, 1 play only); double-speed editing with synchro start; continuous play; Dolby B and C noise reduction; LCD level meters; auto tape selector; headphone jack ..... \$270

## TDX311BK Cassette Deck

Cassette Deck with Dolby B and C noise reduction. Features computer-controlled 2-motor full-logic mechanism; SA head; LED multi-peak level indicator for each channel; auto rec mute ..... \$250

## TDW222BK Double Cassette Deck

Features two-motor full-logic mechanisms (1 play/rec, 1 play only); one HiFi U-Turn autoreverse system with flip reverse head on deck B; high-speed editing with synchro dubbing; continuous play; Dolby B and C noise reduction; LCD level meters; auto tape selector; headphone jack inputs ..... \$250

## TDW111BK Double Cassette Deck

Features high-speed editing with synchro dubbing; separate LED multi-peak indicators; headphone jack; Dolby B noise reduction; auto tape selector ..... \$180

## KENWOOD

### KX-97CW Autoreverse Cassette Deck

Features dual, bi-directional recording/playback; high-speed dubbing; full logic computer controlled

tape transport with 2-motor drive for each mechanism; Dolby C and NR systems; bi-directional relay play; fast forward search; rewind search; single repeat; rewind play and re-recording standby; index scan; automatic tape selector; system remote controllable; auto function; FR 20-15,000 Hz; S/N ratio 72 dB; THD < 0.6% at 1kHz; W&F 0.08%; 4.69 x 16.63 x 10.44 in; 11.9 lb ..... \$389

### KX-96W Double Autoreverse Cassette Deck

Double cassette deck with dual bidirectional rec/play system. Features quick-reverse; two motors; full-logic computer control; Dolby B & C NR; high-speed dubbing; continuous relay play; relay and dual recording; direct 16-program search system; index scan; headphone jack; LED peak meters; auto tape selector. W&F 0.1% wrms; S/N 72 dB; FR 30-15,000 Hz  $\pm$  3 dB (Type II). Remote controlled through KC-206 preamp and Kenwood receivers. 16.53 x 4.69 x 10.44 in; 11.4 lb ..... \$380

### KX-660HX Full-Logic Cassette Deck

Basic series cassette deck with Dolby HX Pro headroom extension system. Features Dolby B & C NR with dynamic stabilizer; manual/auto recording bias adjust control; low-imp Permlic rec/play head; silent 2-motor drive with full-logic computer control; high-rigidity mechanism and head mount; direct 16-program search system; auto-rec mute; blank search; index scan; re-recording standby; repeat with auto blank skip; counter zero stop; master rec and L/R preset level controls; FL wide-range peak meters; FL linear tape counter; auto tape sel; headphone jack; L/R mic inputs; timer rec/play capable. FR 20-18,000 Hz  $\pm$  3 dB (metal); W&F 0.06% wrms. 17.31 x 4.44 x 12.81 in; 11 lb ..... \$300

### KX-77CW Double Autoreverse Cassette Deck

Features double auto-reverse with One Record/Play and One Play Mechanism; high-speed dubbing; full logic computer controlled tape transport with 2-motor drive; Dolby C & B NR systems; relay play; fast



forward search; rewind search; single repeat; dash & play; rewind play; re-recording standby; index scan; automatic tape selector; system remote controllable; auto function; FR 20-15,000 Hz; S/N ratio 72 dB; THD < 0.6% at 1kHz; W&F 0.08% ..... \$299

### KX-66CW Double Cassette Deck

Cassette deck with autoreverse play/rec deck and unidirectional playback only deck. Features full-logic computer control; Dolby B & C NR; 2 motors; high-speed dubbing; continuous relay play; relay recording; direct 16-program search system; index scan; auto tape selector; auto rec mute; headphone jack; LED peak meters. W&F 0.1%; S/N 72 dB; FR 30-15,000 Hz  $\pm$  3 dB (Type II). Remote controlled through KC-206 and Kenwood receivers. 16.56 x 4.69 x 10.44 in; 11.2 lb ..... \$280

### KX-87CR Autoreverse Cassette Deck

Features full logic computer controlled tape transport; Dolby C & B NR; direct 9-program search system; index scan; automatic tape selector; auto-recording mute; left/right microphone inputs; timer record/play function; headphone monitoring jack; system remote controllable; auto function; FR 20-25,000 Hz; S/N ratio 73 dB; THD < 0.5% at 1kHz; W&F 0.06%; 4.5 x 16.63 x 10.63 in; 8.4 lb ..... \$259

### KX-76R Autoreverse Cassette Deck

Full-logic control cassette deck with 9-program search system. Features Dolby B & C NR; index scan;

continuous autoreverse; auto tape selector; auto recording mute; LED peak meters; headphone jack; L/R mic inputs; remote controlled through KC-206 preamp and Kenwood receivers. W&F 0.06% wrms; S/N 73 dB; FR 30-15,000 Hz  $\pm$  3 dB (Type II). 16.56 x 4.5 x 10.63 in; 8.4 lb ..... \$250

### KX-57CW Double Cassette Deck

Features high-speed dubbing; Dolby C & B NR; relay play; automatic tape selector; timer record/play function; headphone monitoring jack; FR 20-15,000 Hz; S/N ratio 72 dB; THD < 0.8% at 1kHz; W&F 0.15% ..... \$229

### KX-56CW Double Cassette Deck

Features one rec/play mechanism; Dolby B & C NR; two motors; soft-touch controls; high-speed dubbing; single relay play; auto tape selector; LED peak meters; headphone jack; L/R mic inputs; timer ready; remote controlled through KC-206 preamp and Kenwood receivers. W&F 0.15% wrms; S/N 72 dB; FR 30-15,000 Hz  $\pm$  3 dB (Type II). 16.56 x 4.69 x 10.44 in; 8.8 lb ..... \$200

### KX-47C Cassette Deck

Features soft-touch controls; direct program search system offers 1 selection skip/repeat; Dolby C & B NR; metal tape selector; LED peak meters; left/right microphone inputs; timer record/play function; FR 20-15,000 Hz; S/N ratio 72 dB; THD < 0.7% at 1kHz; W&F 0.09%; 4.18 x 16 x 10 in; 8.4 lb ..... \$189

### KX-46C Cassette Deck

Features soft-touch controls; music search; auto tape selector; LED peak meters; L/R mic inputs; headphone jack; timer ready. W&F 0.09% wrms; S/N 72 dB; FR 30-15,000 Hz  $\pm$  3 dB (Type II). 16.56 x 4.81 x 10.56 in; 8.4 lb ..... \$175

## KYOCERA

### D-811 Dolby B/C/HX Pro Cassette Deck

2 heads; 3 motors; 3 preset bias/EQ's; Dolby B; Dolby C; dual capstans; bias fine tuning; direct drive; digital electronic counter for elapsed and remaining time; output level control; memory repeat stop/play; LED peak-hold meters; soft-touch controls; mike inputs; headphone jack with volume control; rec mute; wireless remote. W&F 0.02% wrms; metal 20-22,000 Hz  $\pm$  3 dB, high bias 20-20,000 Hz  $\pm$  3 dB, normal 20-20,000 Hz  $\pm$  3 dB; S/N (A-wtd) metal: 58 dB no NR, 10 dB Dolby B, 20 dB Dolby C; line-input sens for 0-dB reading 70 mV; line output level with 0-dB indication 580 mV; mike input sens 0.5 mV ..... \$750

### D-611 Dolby B/C Cassette Deck

2 heads; 3 motors; 3 preset bias/EQ's; bias fine tuning; direct drive; output level control; memory repeat stop/play; LED meters; soft-touch controls; mike inputs; headphone jack; rec mute; wireless remote. W&F 0.035% wrms; metal 20-22,000 Hz  $\pm$  3 dB, high bias 20-20,000 Hz  $\pm$  3 dB, normal 20-20,000 Hz  $\pm$  3 dB; S/N (A-wtd) metal: 58 dB no NR, 10 dB Dolby B, 20 dB Dolby C; line-input sens for 0-dB reading 70 mV; line output level with 0-dB indication 580 mV; mike input sens 0.5 mV. 18.12 x 4 x 12.12 in; 16 lb ..... \$550

## MARANTZ

### DT84 Digital Audio Tape Deck

DAT deck with wireless remote control. Features 48 kHz sampling frequency record; 44.1/48 kHz sampling frequency play; quadruple oversampling; sub-code post recording; 30-track random-program play; cue/review; 2-way repeat; auto rewind/auto replay; FR 5-20,000 Hz; S/N 96 dB; THD 0.01% ..... \$1,900

### SD-55 Stereo Cassette Deck

2-head cassette deck with dual motor and micro-processor control. Features Dolby B and C NR; variable bias fine tune control; auto tape type sensor; rec mute; MPX filter ..... \$780

# CASSETTE DECKS

## Double Cassette Decks

### SD565 Auto-Reverse Double Cassette Deck

Double cassette deck with autoreverse, record, and playback for both transports. Features 15-song quick music search; auto tape selector; high-speed dubbing; mixing; auto rec mute; Dolby B & C NR; 2 heads; 2 motors; memory stop/play; LED meters; soft-touch controls; mic inputs; headphone jack; w&F 0.05% wrms; FR 35-15,500 Hz; S/N 65 dB. 4 x 16.5 x 10.25 in; 11.9 lb. .... \$450

### SD160 Double Cassette Deck

Features Dolby B NR; high-speed dubbing; mic input, LED meters; FR 40-13,000 Hz; S/N 64 dB; w&F 0.08%; 4.38 x 16.5 x 7.25 in; 8.4 lb. .... \$170

## Portable Cassette Decks

### PMD 430 dbx Portable Cassette Deck

3-head AC/DC cassette deck with Dolby B. Features fine-bias control; headphone jack with adjustable volume; dual recording level controls; 2 mic inputs; switchable mic attenuation (0, -15, -30 dB); compatible with normal/high-bias/metal tape; auto replay; pitch control. 2 x 9 x 6.5 in; 3.5 lb. .... \$550  
**RB 430.** Rechargeable NiCad battery pack .... \$50

### PMD 420 Dolby B Portable Cassette Deck

Features 2 heads; bias fine tuning; mic inputs; headphone jack; built-in speaker; pitch control; 3-position tape selector; switchable limiter; 3-way power; w&F 0.12% wrms; FR ferric 40-14,000 Hz  $\pm$  3 dB; S/N 59 dB; line-input sens 70 mV; mic input sens 0.3 mV. 2 x 9 x 6.5 in; 2.9 lb. .... \$450

### PMD 221 Portable Cassette Deck

Features 2 speeds; 3 heads; mic inputs; headphone jack; built-in speaker; built-in mike; pitch control; 3-position tape selector; ext mike and speaker jacks; manual or auto level control; switchable limiter; 3-way power; w&F 0.12% wrms; line-input sens 70 mV; line output level 400 mV; mike input sens 0.3 mV. 2 x 9 x 6.5 in; 2.9 lb. .... \$330

### PMD 201 Portable Cassette Deck

Features 2 speeds; 2 heads; mic inputs; headphone jack; built-in speaker; built-in mike; pitch control; 3-position tape selector; ext mike and speaker jacks; manual or auto level control; switchable limiter; 3-way power; w&F 0.12% wrms; FR 40-12,500 Hz  $\pm$  3 dB; line-input sens 70 mV; line output level 400 mV; mic input sens 0.3 mV. 2 x 9 x 6.5 in; 2.9 lb. .... \$280

## MITSUBISHI

### MT-5100 Dual Cassette Deck

Full-logic dual cassette deck with auto-reverse high-speed synchronous one-touch dubbing. Features continuous playback of 2 cassettes; music search; repeat functions; blank skip; automatic muting; Dolby B and C NR; automatic bias calibration according to tape type; remote control. .... \$450

### DT-160 7 Cassette Auto-Changer

Double cassette deck features high-speed dubbing, 9 segment programmable music search, auto reverse, Dolby B. .... \$385

### MT-4100 Dual Cassette Deck

Dual-cassette deck features one-touch dubbing from tape 1 to tape 2; double-speed dubbing; 7-cassette programmable auto-changer; direct-access selection to tracks on any cassette; music search system; blank-skip; repeat playback; synchronized recording; auto-reverse playback; Dolby B NR; automatic tape selection switching. .... \$349

## NAD

### 6300 Monitor Series Cassette Deck

With Dolby B and Dolby C NR, Dolby HX Pro and Dyrac headroom extension; Play Trim to adjust

playback EQ to compensate for differences in cassettes made on other decks (also allows for overall high-frequency compensation); 3 heads and double Dolby; fine bias tuning; elapsed time counter; compatible with normal, high-bias, metal tape; nonsymmetric dispersed-resonance dual-capstan transport; wireless remote; CAR processor to boost level of soft passages 20 dB. Speed accuracy  $\pm$  1%; W&F 0.03% wtd rms; FR 30-19,000  $\pm$  3 dB. .... \$898

### 6100 Monitor Series

Play trim; wow, flutter, and speed performance; CAR circuit; HX PRO and Dyrac; rack mountable. \$498

### 6240 Dolby B & C Cassette Deck

Play Trim; Dyrac headroom extension for improved high-frequency response; compatible with normal, chrome, metal tape; bias fine tuning; peak-reading LED meters. Speed accuracy  $\pm$  1%; W&F 0.06% wtd rms; FR 30-19,000  $\pm$  3 dB; S/N 59 dB no NR, 68 dB Dolby B, 77 dB Dolby C. .... \$298

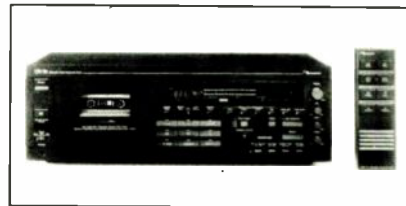
## NAKAMICHI

### Dragon Auto-Reverse Stereo Cassette Deck

Microprocessor-controlled 3-head cassette deck with Dolby B and C. Features Auto Azimuth Correction system; asymmetrical diffused-resonance transport; Super Linear Torque direct-drive motors; auto-retracting slot guides; tape-pad lifter; auto tape slack take-up; 2-speed cueing; 2-speed master fader; auto rec pause; rec-level and bias-calibration controls with 2-tone oscillator; dual-gap ferrite/sendust erase head; separate tape and EQ switches for ZX, SX, and EX cassettes; direct-coupled recording and playback amplifiers; left, right, master input levels; output level control; rec mute; high-output headphone jack; defeatable infrasonic filter; 4-digit LED electronic counter with memory stop and repeat. w&F 0.019% wrms; FR 20-22,000 Hz  $\pm$  3 dB with ZX tape; S/N Dolby B/C on 66/72 dB at 400 Hz with 3% THD (A-wtd with ZX tape at 400Hz, 0 dB); sep/crosstalk 37/60 dB at 1,000 Hz, 0 dB; input sens/imp 50 mV/50 kilohms line; output level/imp 1 V/2.2 kilohms line, 45 mW/8 ohm headphones; 17.75 x 5.31 x 11.81 in; 21 lb. .... \$2,195

### CR-7A 3-Head Cassette Deck

Discrete cassette deck with asymmetrical diffused-resonance dual-capstan transport. Features 3 motors; auto bias/EQ; Dolby B; Dolby C; manual azimuth adjust; elapsed-time counter; remaining-time



counter; output level control; memory stop/play; LED meters; soft-touch controls; headphone jack; rec mute; wireless remote; auto & manual tape/qualizer selection; auto fade; auto repeat. w&F 0.027% wrms; FR, ferric 18-21,000 Hz  $\pm$  3 dB; S/N (A-wtd), metal 66 dB Dolby B, 72 dB; line-input sens for 0-dB reading 50 mV; line-output level with 0-dB indication 1,000 mV. 17.12 x 5.31 x 12 in; 19 lb, 13 oz. .... \$1,595

### RX-505 3-Head Cassette Deck

Discrete stereo cassette deck with unidirectional auto reverse to eliminate bidirectional azimuth error. Mechanism turns cassette over at end of side during record or playback. Features asymmetrical dual-capstan closed-loop transport; auto fade (20 secs before end of tape); Dolby B and C; DC servo motors; auto record pause; LED peak level meters reading from -40 to +10 dB; dual-speed master fader; punch-in recording; memory stop/play; soft-touch controls. w&F <0.04% wrms; FR 20-20,000 Hz  $\pm$  3 dB all tape types; S/N > 70 dB with Dolby C and metal

tape; THD <0.9% with ZX tape; line-input sens for 0-dB reading 50 mV; line-output level with 0-dB indication 1,000 mV; 17.75 x 5.69 x 11.81 in; 22 lb. .... \$1,395  
**RX-202.** Similar to above with 2 heads, w&F <0.06% wrms. 17.75 x 5.38 x 10 in; 19 lb, 13 oz. .... \$750

### CR 5A 3-Head Cassette Deck

Discrete cassette deck with asymmetrical diffused-resonance dual-capstan transport. Features 3 motors; Dolby B; Dolby C; bias fine tuning; output level control; memory stop/play; LED meters; soft-touch controls; headphone jack; rec mute; auto repeat; dual speed-master fader control; independent L/R. w&F 0.027% wrms; FR, ferric 18-21,000 Hz  $\pm$  3 dB; S/N (all A-wtd), metal 66 dB Dolby B, 72 dB Dolby C; line-input sens for 0-dB reading 50 mV; line-output level with 0-dB indication 1,000 mV. 17.12 x 5.31 x 12 in; 18 lb, 2 oz. .... \$1,095

### MR-1 Discrete 3-Head Pro Cassette Deck

Cassette deck with asymmetrical dual-capstan diffused-resonance transport. Features Dolby B and C; 3 motors; memory stop; rec mute; external NR loop accessed via standard phono jacks; dual 16-segment peak-reading electronic level meters; Crystalloy recording and play heads; subsonic filter; MPX filter;  $\pm$  6% pitch control front-panel 0.25" unbalanced line-input jacks; rear balanced XLR input and output jacks; unbalanced 0.25" rear jacks. Balanced inputs: imp 600 ohms; rated input level +4 dBm; headroom 16 dB to max input level (+20 dBm); min input level -6 dBm. Unbalanced inputs: imp 100 kilohms; nominal recording level with input of -20 dBV (0.1 V); nominal input level 0.316 V. Comes with EIA standard rack-mount adaptor. Optional remote control. w&F 0.027% wrms,  $\pm$  0.048% wtd peak; FR 20-20,000 Hz  $\pm$  3 dB at -20 dB. .... \$995

### CR-4A Discrete Head Cassette Deck

Discrete 3-head system. Features asymmetrical dual-capstan direct drive transport with FG-servo capstan motor manual bias & level calibration; built-in test signals; dolby B/C NR; independent tape and EQ selection; 13-segment 50 dB peak-level meters; one-touch rec/pause; 4-digit LED counter with memory stop and auto repeat; calibration; concentric record level & balance control; output level; gold-plated input, output, and headphone jacks; OFC wiring and copper-plated chassis; optional remote control; FG servo, brushless, slotless, coreless D.D. motor; DC motor mechanism; Wow and flutter  $\pm$  0.048% wtd Peak; FR 20-20,000 Hz  $\pm$  3 dB; Dolby-C > 72 dB; THD <0.8%; sep > 37 dB; 16.94 x 3.94 x 10.44 in; 13 lb. .... \$995

### CR-3A Discrete Head Cassette Deck

Discrete 3-head system. Features asymmetrical dual-capstan transport; bias fine tune; dolby B/C NR; independent tape & EQ selection; 13-segment 50 dB peak-level meters; 4-digit LED counter with memory stop and auto repeat; rec mute; dolby, source/tape, rec mute, stop, play, pause and record indicators; concentric record level and balance controls; output level control; extra-heavy chassis; optional remote control; DC servo motor; DC motor mechanism; wow and flutter  $\pm$  0.06% wtd peak; FR 20-20,000 Hz  $\pm$  3 dB; Dolby-C NR > 72 dB; THD <0.9%; sep > 37 dB; 16.94 x 3.94 x 10.44 in; 12 lb, 13 oz. .... \$795

### MR-2 2-Head Pro Cassette Deck

Rack-mountable cassette deck with balanced line inputs. Features 3 motors; Dolby B; Dolby C; bias fine tuning; output level control; memory stop; LED meters; mike inputs; headphone jack; pitch control; auto repeat; hyperbolic-contour laminated sendust rec/playback head. w&F 0.06% wrms; FR, ferric 20-20,000 Hz  $\pm$  3 dB; S/N (all A-wtd), ferric 62 dB Dolby B, 68 dB Dolby C. .... \$559

### CR-2A 2-Head Cassette Deck

Microprocessor-controlled silent-mechanism transport; dolby B/C NR with defeatable MPX filter; bias



# CASSETTE DECKS

fine tune; independent tape and EQ selection; 37 dB peak-level meters; 4-digit LED counter; memory stop; auto repeat; timer rec/play; rec mute; concentric record level and balance controls; output level control; headphone jack; optional remote control; DC servo motor; DC motor mechanism; wow and flutter <math>\pm 0.11\%</math> WTD peak; FR 20-20,000 Hz; Dolby-C NR >70 dB; THD <math>< 1.0\%</math>; sep >36 dB; 16.94 x 3.94 x 10.44 in; 11 lb, 14 oz ..... \$475

## CR-1A 2-Head Cassette Deck

Microprocessor-controlled silent-mechanism transport; Dolby B/C NR with defeatable MPX filter; independent tape and EQ selection; 37 dB peak-level meters; 3-digit mechanical counter; memory stop; auto repeat; timer rec/play; concentric record level and balance controls; headphone jack; DC servo motor; DC motor mechanism; wow and flutter <math>\pm 0.11\%</math> WTD peak; FR 20-20,000 Hz; Dolby-C NR >70 dB; THD <math>< 1.0\%</math>; sep >36 dB; 16.94 x 3.94 x 10.44 in; 11 lb, 14 oz ..... \$349

## NEC

### K-710 Dual-Well Cassette Deck

Dual-well cassette deck with twin microprocessor-controlled full-logic mechanisms. Features 2-speed dubbing; built-in Dolby B and C noise reduction; programmed dubbing and playback of up to 15 tracks; intro-play; continuous play; endless continuous play; music scan forward and back; NEC universal remote controllable; flying-start recording capability; auto rewind and play; auto record mute; 7-LED level indicators; stereo mic inputs ..... \$399

### K-510 Dual-Well Cassette Deck

High-speed dubbing cassette deck with Dolby B & C. Features continuous playback; synchro-start dubbing; soft-touch controls ..... \$249

## NIKKO AUDIO

### D-100III Autoreverse Cassette Deck

Features 3 heads; Dolby B, C, and dbx; automatic bias programming system (ABPS); manual bias system; random program song selection (RPSS); direct program song selection (DPSS); index programming; real-time counter; intro check; auto spacer; L/R mic inputs; rec mute; multiplex filter; peak reading meters. Optional wired remote control and rack mount. FR 25-20,000 Hz metal, 25-19,000 Hz high bias, 25-17,000 normal; S/N 92 dB with dbx; dynamic range 110 dB ..... \$499

**D-80II.** Same as above except 2 heads and FR 20-19,000 Hz metal, 20-18,000 Hz high bias, 25-17,000 Hz normal; dynamic range 110 dB; S/N 90 dB with dbx ..... \$399

### ND-850W Cassette Deck

Double cassette deck ..... \$430

### D-60W Double Cassette Deck

Double cassette deck with 6 motors. Features high-speed dubbing; Dolby B & C noise reduction; ABPS; IP; RPSS; random dubbing song search (RDSS). Optionally rack mountable ..... \$329

### D-30W Double Cassette Deck

High-speed dubbing cassette deck with continuous play. Features Dolby B & C; separate L/R input level controls; multiplex filter; mic inputs; headphone output; soft-touch operation. Optionally rack mountable ..... \$199

## ONKYO

### Integra TA-2090 Unidirectional Cassette Deck

Computer-controlled cassette deck with Dolby B, C, dbx NR and Dolby HX Pro. Features 3 heads; 3 motors; auto bias/EQ; dual capstans; bias fine tuning; direct drive; elapsed-time counter; remaining-time counter; music search; output level control; memory stop/play; mike input; headphone jack; rec mute;

record calibration controls; sendust heads; MPX filter; fluorescent meters, 2-color peak hold. Remote control and side panels optional. W&F 0.02% wrms; FR 25-17,000 Hz  $\pm 3$  dB (Type-I tape), 25-19,000 Hz  $\pm 3$  dB (Type-II tape), 25-21,000 Hz  $\pm 3$  dB (Type-IV tape); S/N (Type-IV tape) 60 dB no NR, 70 dB Dolby B, 80 dB Dolby C, 87 dB dbx. 17.69 x 3.93 x 15.44 in; 20 lb ..... \$900

**CW-20.** Optional woodgrain side panels for TA-2090 ..... \$60/pr

### TA-2800 Cassette Deck

3-head cassette deck. Features computer-controlled three-motor silent mechanism transport; Dolby B and C noise reduction; Dolby HX Pro; automatic accu-bias; record calibration; real-time counter; switchable MPX filter; forward and reverse AMCS integrated system remote compatibility ..... \$650

### TA-RW490 Double Cassette Deck

Features double autoreverse; double recording; high-speed and real-time dubbing; continuous recording; Dolby B & C; Dolby HX Pro; 2 real-time tape counters; program music search for both decks; headphone jack; mike input. Remote control optional ..... \$630

### TA-RW470 Double Cassette Deck

Dual computer-controlled, two motor, autoreverse transports. Features Dolby B and C noise reduction;



real-time counter; standard and high-speed dubbing; continuous play; AMCS; integrated system remote compatibility ..... \$500

### TA-2600 Cassette Deck

3-head cassette deck. Features computer-controlled three-motor silent mechanism transport; Dolby B and C noise reduction; Dolby HX Pro; Accu-Bias; real time counter; switchable MPX filter; forward AMCS; integrated system remote compatible ..... \$480

### TA-W450 Double Cassette Deck

Features high-speed and real-time dubbing; continuous playback; Dolby B & C; computer-controlled tape transport with 4 DC motors; automatic music control system; auto space; auto bias/EQ; LED meters; mic input; headphone jack. Remote control optional. W&F 0.07% wrms; FR 30-15,000 Hz  $\pm 3$  dB (Type-I tape), 30-16,000 Hz  $\pm 3$  dB (Type-II tape), 30-17,000 Hz  $\pm 3$  dB (Type-IV tape); S/N (Type-IV tape) 58 dB no NR. 17.12 x 4.38 x 10.12 in; 10.1 lb ..... \$330

### TA-R260 Autoreverse Cassette Deck

Features Dolby B & C; Dolby Hx Pro; 2 heads; 2 motors; computer-controlled silent-mechanism transport; fine-tuning accu-bias; automatic music control system; auto bias/EQ; real-time 4-digit tape counter; blank skip; mic inputs; headphone jack; auto space; LED meters. Remote control optional. W&F 0.07% wrms; FR 30-14,000 Hz  $\pm 3$  dB (Type-I tape), 30-15,000 Hz  $\pm 3$  dB (Type-II tape), 30-16,000 Hz  $\pm 3$  dB (Type-IV tape); S/N (Type-IV tape) 58 dB no NR. 17.12 x 4.38 x 10.38 in; 9.3 lb ..... \$370

### TA-2140 Unidirectional Cassette Deck

Features Dolby B & C; Dolby Hx Pro; 2 heads; 2 motors; computer-controlled silent-mechanism transport; fine-tuning accu-bias; automatic music control system; auto bias/EQ; real-time 4-digit tape counter; blank skip; mic inputs; headphone jack; auto space; LED meters. Remote control optional. W&F 0.06% wrms; FR 30-15,000 Hz  $\pm 3$  dB (Type-I tape), 30-16,000 Hz  $\pm 3$  dB (Type-II tape), 30-17,000 Hz

$\pm 3$  dB (Type-IV tape); S/N (Type-IV tape) 58 dB no NR. 17.12 x 4.38 x 10.38 in; 9.1 lb ..... \$330

### TA-RW44 Double Cassette Deck

Features autoreverse (deck 2 only); high-speed and normal-speed dubbing; Dolby B; 2 DC-servo motors; auto bias/EQ (deck 2); rec mute; auto stop; time standby mode; music search (deck 2); soft-touch controls; master level fader. W&F 0.07% wrms; FR 30-15,000 Hz  $\pm 3$  dB (Type-I tape), 30-16,000 Hz  $\pm 3$  dB (Type-II tape), 30-17,000 Hz  $\pm 3$  dB (Type-IV tape); S/N (Type-IV tape) 58 dB no NR. 17.12 x 4.38 x 10.12 in; 11.7 lb ..... \$275

### TA-R240 Autoreverse Cassette Deck

Features Dolby B & C; 2 heads; 2 motors; computer-controlled silent-mechanism transport; fine-tuning accu-bias; automatic music control system; auto bias/EQ; blank skip; mike inputs; headphone jack; auto space; LED meters. Remote control optional. W&F 0.07% wrms; FR 30-14,000 Hz  $\pm 3$  dB (Type-I tape), 30-15,000 Hz  $\pm 3$  dB (Type-II tape), 30-16,000 Hz  $\pm 3$  dB (Type-IV tape); S/N (Type-IV tape) 58 dB no NR. 17.12 x 4.38 x 10.38 in; 9.3 lb ..... \$270

### TA-2130 Unidirectional Cassette Deck

Features Dolby B & C; 2 heads; 2 motors; computer-controlled silent-mechanism transport; fine-tuning accu-bias; automatic music control system; auto bias/EQ; blank skip; mike inputs; headphone jack; auto space; LED meters. Remote control optional. W&F 0.06% wrms; FR 30-15,000 Hz  $\pm 3$  dB (Type-I tape), 30-16,000 Hz  $\pm 3$  dB (Type-II tape), 30-17,000 Hz  $\pm 3$  dB (Type-IV tape); S/N (Type-IV tape) 58 dB no NR. 17.12 x 4.38 x 10.38 in; 9.1 lb ..... \$260

### TA-2120 Cassette Deck

Features computer-controlled transport; Dolby B and C noise reduction; automatic tape selector; auto space record mute; RI remote compatible ..... \$220

## PARASOUND

### D/HX-600 Dolby B, C, HX Pro Cassette Deck

With Dolby B and Dolby C NR; Dolby HX Pro headroom extension; sendust-alloy head; LED peak and peak storage meters; Play Trim; polystyrene capacitors; hand-selected parts; single DC servomotor; soft-touch controls. S/N 75 dB with metal tape and Dolby C; 17.25 x 4.5 x 11 in; 12 lb ..... \$360

## PHILIPS

### FC 567 Dual Cassette Deck

Digitally controlled electronic auto reverse and automatic two-way recording for both decks; ability to record or play up to three hours of continuous music; normal and high speed dubbing; mono microphone mixing capabilities; Quick Music Search (QMS) for fast skipping of up to 15 tracks; Memo Key operates in conjunction with QMS to program 16 tracks in any order; Dolby B and C Noise Reduction circuits eliminate tape hiss; LED bar indicates peak levels for left and right channels; slide record level controls left and right channels; microprocessor controls; precision ground capstans and pressure rollers; full auto stop to protect tape and transport mechanism in all modes; 3-digit tape counter with reset; automatic tape selection operates when tape is inserted (with Normal, Metal and Chrome tape); timer switch allows play/record with external timer control; tape direction and mode indicators; MPX filter eliminates pilot tone interference on FM recordings; Autospace Record Mute inserts 4-second pause between tracks; front panel microphone and headphone inputs. Motor type 2 DC Servo 2 DC; speed tolerance 1.5%; W&F 0.04% wrms; FR 30-18,000 Hz. 4.0 x 16.8 x 10.4 in; 11.66 lb ..... \$479

### FC 566 Cassette Deck

Electronic auto reverse and automatic two-way recording and playback; Quick Music Search (QMS) for fast skipping of up to 15 tracks; Index Scan plays

# CASSETTE DECKS

first 10 seconds of each track to locate favorite musical passage; Autospace Record Mute inserts 4-second pause between recorded tracks; Blank Skip eliminates silences between tracks by automatically forwarding to next recording; Dolby B and C Noise Reduction circuits eliminate tape hiss; Precision ground capstan and pressure roller for smooth tape feed; 4-digit electronic tape counter with memory and reset; automatic tape selection operates when tape is inserted (with Normal, Metal and Chrome indication); two FTD record level displays for peak levels; MPX filter eliminates pilot tone interference on FM recordings; timer switch allows play/record with external timer control; front panel stereo microphone and headphone inputs; concentric controls for separate left and right level settings; tape direction and mode indicators; full auto stop to protect tape and transport in all modes. Motor type I DC Servo I DC; speed tolerance 1.3%; w&F 0.04% (wrms); FR 30-18,000 Hz. 4.0 x 16.8 x 10.4 in; 9.9 lb ..... \$379

## PIONEER

### Elite CT-91 Cassette Deck

Cassette deck with Dolby B, C, and HX Pro noise reduction. Features full-logic controls; 3 heads; 2 motors; 3 power supplies; bias fine tuning; anti-vibration design; dual-capstan; amorphous head; FT display; system remote compatible; electronic real time tape counter; power eject auto monitor; FR 20-22,000 Hz; S/N 80 dB; w&F 0.024% wrms. 5.25 x 16.56 x 14.63 in; 21 lb. 3 oz ..... \$950

### CT-S800 Cassette Deck

Three-head, two-motor dual-capstan cassette deck with remote control. Features full-logic control; Dolby HX Pro bias-variance monitoring; Dolby B and C noise reduction; automatic tape selector; closed-loop dual capstan mechanism; Pioneer cassette stabilizer system; copper-plated honeycomb chassis; three individual power supplies; 15-segment level display; electronic real-time tape counter; auto record muting between tracks; 15-track music search function; one-touch tape return; auto monitor and power eject ..... \$750

### CT-W900R Double Cassette Deck

Cassette deck with the Dolby HX Pro signal monitoring and adjustment system. Features two autoreverse transports; two-sided continuous recording of each



tape; relay play; Pioneer cassette stabilizer system; independent operation keys for each deck; remote control compatibility; blank search; blank skip; skip search; automatic recording mute ..... \$650

### CT-W700R Double Cassette Deck

Cassette deck with the Dolby HX Pro signal monitoring and adjustment system. Features playback on transport 1 and recording or playback on transport 2; relay play; Pioneer cassette stabilizer system; independent operation keys for each deck; remote control compatibility; blank search; blank skip; automatic recording mute ..... \$435

### CT-S600 Cassette Deck

Two-head cassette deck with full-logic control. Features Dolby HX Pro bias-variance monitoring; Dolby B and C noise reduction; Pioneer cassette stabilizer system; copper-plated honeycomb chassis; 15-segment level display; electronic real-time tape counter; 15-track music search function; one-touch tape return; auto monitor and power eject ..... \$375

### CT-1280WR Double Cassette Deck

Features autoreverse playback and recording on deck 2; autoreverse playback on deck 1; Dolby B & C; relay play; high-speed dubbing; full-logic control; music search; skip search; auto tape selector; record mute. Remote controllable with Pioneer "SR" unified remote control. w&F <0.09% wrms; S/N 57 dB no NR. 16.6 x 4.75 x 10.44 in ..... \$360

### CT-W500 Double Cassette Deck

Cassette deck with the Dolby B and C noise reduction. Features playback on transport 1 and recording or playback on transport 2; relay play; Pioneer cassette stabilizer system; independent operation keys for each deck; remote control compatibility; blank search; blank skip; automatic recording mute ..... \$310

### CT-W300 Double Cassette Deck

Cassette deck with the Dolby B and C noise reduction. Features playback on transport 1 and recording or playback on transport 2; relay play; Pioneer cassette stabilizer system; independent operation keys for each deck; remote control compatibility ..... \$225

## PROTON

### 740 Cassette Deck

Full-logic-controlled autoreverse cassette deck with Dolby B, C, and dbx. Features 2 heads; 1 motor; auto bias/EQ; elapsed-time counter; music search; output level control; memory stop/play; LED meters; soft-touch controls; mic inputs; headphone jack; rec mute; sleep timer function; 9 program memory selection; adaptable to timer for playback or record. w&F 0.05% wrms; FR ferric 25-16,000 Hz  $\pm$  3 dB, high bias 25-18,000 Hz  $\pm$  3 dB, metal 25-19,000 Hz  $\pm$  3 dB; S/N (A-wtd) ferric: 49 dB no NR, 58.5 dB Dolby B, 68 dB Dolby C, 78 dB dbx, high bias: 53 dB no NR, 62 dB Dolby B, 71.5 dB Dolby C, 85 dB dbx, metal: 53 dB no NR, 60 dB Dolby B, 70 dB Dolby C, 95 dB dbx; mic input sens 0.35 mV ..... \$349

### \* $\pm$ - ÷ (Cassette Deck)

Cassette deck with Dolby B & C NR. Features autoreverse (in play and rec); MPX filter; auto bias selector; full-logic controls; FR metal bias 40-17,000 Hz  $\pm$  3 dB; S/N CrO<sub>2</sub> 70 dB; THD 1.5% (metal tape), 1.8% (CrO<sub>2</sub>), 1.2% (normal tape) ..... \$319

### AD-200 Cassette Deck

Cassette deck with one-button record. Features Dolby B and C noise reduction; defeatable MPX filter; LED peak-level indicators for record and playback; counter indicator; headphone jack; locking rewind and fast forward; tape selector. w&F; 0.08%; line-input sens 80 mV; FR 40-15,000 Hz  $\pm$  3 dB (normal, CrO<sub>2</sub>), 40-16,000 Hz  $\pm$  3 dB (metal). 16.5 x 4 x 10 in; 8.8 lb ..... \$229

## RCA

### MTR225 Double Autoreverse Cassette Deck

Dimensia double cassette deck with remote-control operation and on-screen status indication when used with Dimensia monitor. Features Dolby B & C NR; high-speed dubbing; soft-touch electronic controls; microprocessor control; peak meters; random-access programming; scan-and-play system; automatic tape cueing; auto tape selection; status display; tape mode display; record-level control. S/N 70 dB (Dolby C), 60 dB (Dolby B); w&F <0.07%. 14.63 x 5 x 10.38 in \$399

## REALISTIC

### SCT-100 Double Autoreverse Cassette Deck

Dolby B and Dolby C; high-speed dubbing; compatible with normal, high-bias, metal tapes; mic inputs; headphone jack; 2-color 8-LED peak-level meters; sequential play; soft-touch controls. W&F 0.08% wrms; FR ( $\pm$  3 dB) ferric 40-12,500 Hz, high bias 40-13,000 Hz, metal 40-14,000 Hz; S/N 69 dB Dolby C, 61 dB Dolby B ..... \$230

### SCT-83 Autoreverse Cassette Deck

Dolby B; Dolby C; music search; solenoid operation; plays 1 side, both sides, or repeats continuously; compatible with normal, high-bias, metal tape; mic and headphone jacks; intro scan. W&F 0.06% wrms; FR ( $\pm$  3 dB) ferric 40-14,000 Hz, high bias 40-15,000 Hz, metal 40-16,000 Hz; S/N 70 dB Dolby C, 62 dB Dolby B ..... \$220

### SCT-74 Double Cassette Deck

Dolby B and Dolby C; high-speed dubbing; compatible with normal, high-bias, metal tapes; LED's for power and recording; mic inputs; headphone jack. W&F 0.12% wrms; FR ( $\pm$  3 dB) ferric 60-10,000 Hz, high bias 60-12,000 Hz, metal 60-14,000 Hz ..... \$180

### SCT-45 Double Cassette Deck

4 heads; 2 motors; Dolby B; manual azimuth adjust; elapsed-time counter; mic inputs; headphone jack. W&F 0.1% wrms; FR ( $\pm$  3 dB) ferric 40-12,500 Hz, high bias 40-13,000 Hz, metal 40-14,000 Hz; S/N (A-wtd) ferric 60 dB Dolby B. 16.5 x 5 x 8.81 in; 8 lb, 10 oz ..... \$130

### SCT-46 Double Cassette Deck

Dolby B; 2 heads; high-speed dubbing; headphone and mic jacks; Synchro-Start; continuous play; 2-color LED level meters; permalloy rec/play head. W&F 0.1% wrms; FR ( $\pm$  3 dB) ferric 30-14,000 Hz, high bias 30-15,000 Hz, metal 30-16,000 Hz; S/N (A-wtd) 66 dB with metal tape and Dolby B ..... \$150

### SCT-35 Dolby B Cassette Deck

2 heads; L/R record level controls; 2-color peak level meters; auto-stop; tape counter; pause; soft-eject door; bias/EQ selector for normal, high-bias, metal tape; 0.25" mic and headphone jacks. FR 40-14,000 Hz  $\pm$  3 dB metal and high bias, 40-12,000 Hz  $\pm$  3 dB normal; W&F <0.09% wrms. 4.63 x 15.38 x 8.63 in ..... \$90

### SCP-30 Cassette Player

Plays metal, high-bias, normal tapes; pause; auto stop; simulated walnut cabinet. 8 x 4.5 x 5.25 in \$50

### 8-Track Cartridge Player

### TR-169 8-Track Cartridge Player

Stereo 8-track player; auto or manual program change; output level control. 4 x 10 x 7 in ..... \$50

## REVOX

### B215 3-Head Cassette Deck

Cassette deck with 3 microprocessors for control of bias, level, EQ, transport, and real-time counter. Features 3 heads, Dolby HX Pro, Dolby B & C; 4 motors; digital storage of bias, level, EQ settings for 6 tape formulations; manual or auto record-level setting; die-cast transport chassis; azimuth-stable pivoting headblock; 2 programmable locate buttons; loop mode; auto start-of-record locate. Counter computes elapsed time on partially wound tapes. w&F 0.1% wrms; FR ferric 30-18,000 Hz  $\pm$  3 dB, high bias and metal 30-20,000 Hz  $\pm$  3 dB; S/N (A-wtd) ferric: 55 dB no NR, 64 dB Dolby B, 70 dB Dolby C, high bias: 57 dB no NR, 65 dB Dolby B, 72 dB Dolby C, metal: 58 dB no NR, 66 dB Dolby B, 72 dB Dolby C; line-input sens for 0-dB reading 50 mV; line output level with 0-dB indication 775 mV; 17.7 x 6 x 13 in ..... \$2,300

## ROTEL

### RD870 Dolby B/C/HX Pro Cassette Deck

Features Sendust rec/play head; precision transport mechanism; 2 heads; 2 motors; bias fine tuning; direct drive; LED meters; soft-touch controls; mic input; headphone jack. w&F 0.05%; FR metal 30-20,000 Hz  $\pm$  3 dB ..... \$499

### RD855 Dolby B & C Cassette Deck

Cassette deck with Full-logic controls features 2 motors; remote control ..... \$379



# CASSETTE DECKS

## RD835 Dolby B & C Cassette Deck

Cassette deck with sendust rec/play head, ferrite core erase head. Features soft-touch controls; LED meters; mic inputs; DC servo motors; headphone jack. w&F 0.08% wrms; FR ferric 30-17,000 Hz  $\pm$  3 dB, high bias 30-17,000 Hz  $\pm$  3 dB, metal 30-18,000 Hz  $\pm$  3 dB; S/N high bias: 55 dB no NR, 64 dB Dolby B, 72 dB Dolby C; 17 x 4.5 x 10.62 in; 9.1 lb ..... \$249

## SAE

### C102 Two-Head Cassette Deck

Full-logic microprocessor cassette deck. Features tape transport encased in electronic sliding drawer; 2 heads; 2 motors; Dolby B; Dolby C; manual azimuth adjust; elapsed-time counter; remaining-time counter; music search; blank skip; memory stop/play; LED meters; rec mute; sendust heads. w&F 0.06% wrms; FR 20-20,000 Hz for all tape types; S/N (high bias): 55 dB no NR, 65 dB Dolby B, 74 dB Dolby C; line-input sens for 0-dB reading 70 mV; line output level with 0-dB indication 650 mV. 19 x 3.5 x 14 in; 18 lb ..... \$499

## SANSUI

### D-W11 Double Cassette Deck

Auto-reverse high-speed dubbing cassette deck. Features 2 heads and 2 motors for each transport; Compu-Edit; 16-track RMPS; 15-track Automatic Music Program Search; auto fader; rec cancel; intro skip; timer record/play; manual and auto level controls; auto bias/EQ; Dolby B & C NR; dual capstans; auto azimuth adjust; elapsed-time counter; music search; blank skip; memory stop/play; LED meters; mic inputs; headphone jack; rec mute; black or silver. w&F 0.05% wrms; FR metal 30-17,000 Hz  $\pm$  3 dB; S/N (A-wtd) metal: 57 dB no NR, 66 dB Dolby B, 73 dB Dolby C. 16.94 x 4.37 x 12 in; 13.4 lb \$650

### D-X701 Cassette Deck

3-head, 2-motor, dual capstan cassette deck with full-logic controls. Features Dolby B and C noise reduction; individual record and playback IX amplifiers;



record level; fine-bias adjustment; headphone jack with adjustable level; record/pause; auto-monitor; memory stop; 15-track automatic music program search; FL display. FR 30-20,000 Hz; w&F 0.035% wrms; S/N 60 dB ..... \$650

### D-X501 Cassette Deck

2-head, 2-motor cassette deck with full-logic controls. Features Dolby B and C noise reduction; record cancel; headphone jack with adjustable level; record/pause; auto-monitor; memory stop; 15-track automatic music program search; FL display. FR 30-18,000 Hz; w&F 0.045% wrms; S/N 58 dB .... \$450

### D-X301iR Cassette Deck

Cassette deck with full-logic controls and Computerized Dual-Function Control. Features Dolby B and C noise reduction; Dolby HX Pro; automatic bias adjustment; record/play timer; Sansui integrated system remote capability; record cancel; music scan; headphone jack with adjustable level; memory stop; 20-track automatic music program search. FR 20-19,000 Hz; w&F 0.5% wrms; S/N 72 dB (Dolby C) ..... \$380

### D-3000WR Double Cassette Deck

High-speed dubbing autoreverse deck. Features LED meters for each channel; full logic, soft-touch con-

trols; Dolby B and C; AMPS (Automatic Music Program Search); rec mute. w&F 0.09% wrms; FR metal 20-17,000 Hz; S/N metal 72 dB Dolby C; 64 dB Dolby B. 16.94 x 5 x 8.97 in; 9.9 lb ..... \$375

### D-1000W Double Cassette Deck

Double cassette deck with high-speed dubbing. Features 2 full-logic, computer-controlled transports; Dolby B and C noise reduction; manual level controls; level meters; automatic music program search. w&F 0.09% wrms; FR metal 20-17,000 Hz; S/N metal 74 dB ..... \$300

### D-550WR Double Cassette Deck

Double cassette deck with autoreverse on the playback deck. Features relay play; automatic level control; high-speed dubbing; Dolby B noise reduction; tape type selector ..... \$230

## SANYO

### RDW59 Double Cassette Deck

Features Dolby NR continuous playback; high-speed dubbing; synchronous dubbing; metal-tape capability; dual level meters; auto-stop; soft-touch transport controls; 3-digit tape counter; headphone jack. \$130

### RDW41 Double Cassette Deck

Features synchro dubbing; continuous playback; Dolby NRA; metal-tape capability; soft-eject doors; 5-segment LED level meters; 3-digit tape counter; auto stop ..... \$80

### RDS29 Cassette Deck

Features soft-touch controls; Dolby NR; permalloy heads; metal-tape capability; 5-segment VU meters; headphone jack; input level controls; 3-digit tape counter ..... \$60

## SCOTT

### DD696 Double Cassette Deck

Double cassette deck with autoreverse and remote control. Features high-speed dubbing; Dolby B, Dolby C, dbx NR; full-logic transports; auto program search; relay play; bias fine tuning; 3-way autoreverse selection; headphone jack with volume control. w&F 0.08% wrms; FR ( $\pm$  3 dB) 30-14,000 Hz ferric, 30-15,000 Hz high-bias, 30-16,000 Hz metal; A-wtd S/N: 62 dB with Dolby B, 70 dB with Dolby C. 90 dB with dbx ..... \$560

### DD688 Double Cassette Deck

Dolby B and Dolby C NR; high-speed dubbing; music search; LED meters; soft-touch controls; headphone jack; continuous play. w&F 0.15% wrms; FR ( $\pm$  3 dB) 40-13,000 Hz ferric, 40-14,000 Hz high-bias, 40-15,000 Hz metal, A-wtd S/N: 62 dB with Dolby B, 70 dB with Dolby C ..... \$250  
DD656. As above without Dolby C and music search ..... \$250

## SHARP

### RT-W800(BK) Double Cassette Deck

Autoreverse high-speed-dubbing cassette deck with Dolby B NR. Features soft-touch controls; auto program search; LED peak level meters; metal-tape capability; 2 heads; 1 motor; music search; output level control; mic inputs; headphone jack. w&F 0.08% wrms; record/playback FR ferric 40-13,000 Hz  $\pm$  3 dB, high bias 40-14,000 Hz  $\pm$  3 dB; metal 40-16,000 Hz  $\pm$  3 dB; 17 x 4.89 x 9.89 in ..... \$230

### RT-W500(BK) Double Cassette Deck

Cassette deck with high-speed synchronous dubbing and continuous playback capability. Features 2 heads, 1 motor; Dolby B; LED peak level meters; headphone jack; mic inputs; metal-tape capability; auto stop. w&F 0.12% wrms. record/playback FR ferric 50-11,000 Hz  $\pm$  3 dB, high bias 50-12,000 Hz  $\pm$  3 dB; metal 50-13,000 Hz  $\pm$  3 dB; 17 x 4.88 x 8.56 in; 7.3 lb ..... \$130

## SHERWOOD

### DF-7000R 3-Head Cassette Deck

Features microprocessor supervised, full-logic control; 3-tape heads; Dolby B and C NR; bias control; digital readout; automatic tape selector; separate left/right record level adjustment; output level control; microphone and headphone jacks; 13-segment rec level indicators; rec mute button; timer switch; 2-line input jacks with record cross fader; FR 30-18,000 Hz; S/N ratio 75 dB; 40 dB channel sep at 1 kHz; w&F 0.05%. 5.0 x 17.3 x 11.0 in. .... \$659

### DD-1230R Autoreverse Double Cassette Deck

Features microprocessor supervised, full-logic control; auto reverse recording; Dolby B & C NR; digital tape counter; normal and high-speed dubbing; bidirectional automatic music search; automatic tape selector; uninterrupted dubbing; fully synchronized one-touch dubbing; relay play with alternate playback deck; rec mute button; separate rec level and balance control; 13-segment rec level indicators; timer-record and start; illuminated tape run direction indicators; air-dampened soft eject cassette doors; FR 30-16,000 Hz; S/N ratio 75 dB; 40 dB channel sep at 1 kHz; w&F 0.12%. 4.7 x 17.3 x 8.9 in. .... \$359

### DS-1630R Single Autoreverse Cassette Deck

Features microprocessor supervised, full-logic control; auto reverse; Dolby B & C NR; digital readout; automatic tape selector; 2-line input jacks with record cross fader; auto music search system; three playback modes; microphone and headphone jacks; rec level and balance controls; output level control; 12-segment rec level indicators; rec mute button; air-dampened soft eject cassette door; timer switch; FR 30-18,000 Hz; S/N ratio 75 dB; 40 dB channel sep at 1 kHz; w&F 0.09%. 5.0 x 17.3 x 11.0 in. .... \$329

### S-289RDR Double Cassette Deck

Features autoreverse dubbing capability; 2 dubbing speeds; Dolby B & C NR; compatible with Sherwood Digi-Link remote components; auto music search; auto tape select; LED peak level indicators; relay playback for continuous listening of both decks; timer/start; rec mute ..... \$300

### DD-1130 Double Cassette Deck

Features Dolby B and C NR; high-speed dubbing; synchronized dubbing; relay play; continuous play; Normal, CrO2, and Metal tape settings; adjustable



rec level; 3-digit tape counter; LED rec level indicators; air-dampened soft eject cassette doors; FR 30-16,000 Hz; S/N ratio 73 dB; 37 dB channel sep at 1 kHz; w&F 0.2%. 4.7 x 17.3 x 8.9 in. .... \$199

## SONY

### TC-WR11ES Double Cassette Deck

Double cassette deck with twin/sequential recording. Features 4-motor (2 per transport) design with Feather-Touch controls; autoreverse; high-speed dubbing; Dolby B and C noise reduction on both decks; relay play; auto pause; linear real-time counter; automatic music sensor; blank skip; automatic tape type selection; remote control; 210 kHz super bias. FR 20-20,000 Hz  $\pm$  3 dB ..... \$800

### TC-K700ES Cassette Deck

Three-head cassette deck with a mid-ship drive system that separates the control circuitry from the audio circuits leaving the tape transport mechanism in the mid-ship portion of the chassis. Features twin

# CASSETTE DECKS

monaural DC amp design; LC-OFC laser amorphous heads; Dolby B and C; memory stop/play; auto playback-EQ selector; MPX filter switch; auto play; auto space rec mute; timer record and playback; linear counter; counter subtract function for remaining time indication; headphone jack with adjustable level. w&F 0.025% wrms; FR 20-20,000 Hz  $\pm$  3 dB (no NR, Type-IV tape); S/N 60 dB (no NR, Type-IV tape). 17 x 5 x 13.75 in. . . . . \$700

## TC-WR900 Double Cassette Deck

Double cassette deck with recording on both decks. Features 4-motor (2 per deck) design; double autoreverse; Dolby B and C noise reduction on both decks; laser-amorphous heads on both decks; relay play; dubbing level control; automatic music sensor; blank skip; electronic linear counter; direct-coupled electronics; dual-deck remote capability. FR 30-18,000 Hz; w&F 0.05%. 4.63 x 17 x 12.13 in.; 12.5 lb. \$700

## TC-RX80ES Cassette Deck

Cassette deck with laser-amorphous head. Features 2-motor transport with DC-servo motor for capstan and separate motor for reel hubs; autoreverse; Dolby B and C noise reduction; Dolby HX PRO; 5-band spectrum analyzer; linear real-time counter; record level calibration with 10-second test tone; variable bias; automatic tape type selection; automatic music sensor; blank skip; music scan; auto space record mute; timer record/play; remote control capability; FR 20-20,000 Hz  $\pm$  3 dB; 160 kHz Super Bias circuitry. . . . . \$600

## TC-RX60ES Cassette Deck

Cassette deck with laser-amorphous head. Features 2-motor transport with DC-servo motor for capstan and separate motor for reel hubs; autoreverse; Dolby B and C noise reduction; Dolby HX PRO; linear real-time counter; automatic tape type selection; automatic music sensor; blank skip; music scan; auto space record mute; timer record/play; remote control capability; FR 20-20,000 Hz  $\pm$  3 dB; 160 kHz Super Bias circuitry . . . . . \$450

## TC-WR9ES Double Cassette Deck

Double cassette deck with one record/play deck and one play only deck. Features 2-motor (1 per transport) design with Feather-Touch controls; autoreverse; high-speed dubbing; Dolby B and C noise reduction; relay play; auto pause; electronic digital counter; automatic music sensor; blank skip; automatic tape type selection on deck A; 160 kHz super bias. FR 20-20,000 Hz  $\pm$  3 dB . . . . . \$400

## TC-W7ES Double Cassette Deck

Double cassette deck with one record/play deck and one play only deck. Features 2-motor (1 per transport) design with Feather-Touch controls; high-speed dubbing; Dolby B and C noise reduction; relay play; electronic digital counter; automatic music sensor; FR 20-20,000 Hz  $\pm$  3 dB . . . . . \$360

## TC-WR800 Double Cassette Deck

Double cassette deck with recording on one deck. Features 2-motor (1 per deck) design; double autoreverse; Dolby B and C noise reduction on both decks; high-density heads on both decks; relay play; automatic music sensor; blank skip; direct-coupled electronics; remote control capability. FR 30-15,000 Hz; w&F 0.09%. 4.63 x 17 x 10 in.; 10 lb. . . . . \$350

## TC-W600 Double Cassette Deck

Double cassette deck with recording on one deck. Features 2-motor (1 per deck) design; Dolby B and C noise reduction on both decks; high-density heads on both decks; relay play; automatic music sensor; blank skip; direct-coupled electronics; remote control capability. FR 30-15,000 Hz; w&F 0.09%. 4.63 x 17 x 10 in.; 10 lb. . . . . \$320

## TC-RX50ES Cassette Deck

Cassette deck with laser-amorphous head. Features Feather-Touch transport; autoreverse; Dolby B and

C noise reduction; electronic digital tape counter; 3-position tape type selector; high-speed cue; auto space record mute; timer record/play; built-in mic inputs; remote control capability; FR 20-20,000 Hz  $\pm$  3 dB; 160 kHz Super Bias circuitry. . . . . \$300

## TC-WR500 Double Cassette Deck

Double cassette deck with recording on one deck. Features 2-motor (1 per deck) design; Dolby B and C noise reduction on both decks; high-speed dubbing; soft-touch controls; high-density heads on both decks; continuous play; direct-coupled electronics. FR 30-14,000 Hz; w&F 0.12%. 4.63 x 17 x 9.88 in.; 8 lb. 3 oz. . . . . \$280

## TC-RX400 Cassette Deck

Autoreverse cassette deck with Dolby B and C noise reduction. Features remote control capability; feather-touch full-logic controls; direct coupled electronics; high-density heads; mic inputs; autoreverse; full-logic switching. FR 30-15,000 Hz; w&F 0.09%. 4.63 x 17 x 10 in.; 8 lb. 11 oz. . . . . \$240

## TC-W300 Double Cassette Deck

Double cassette deck with recording on one deck. Features 2-motor (1 per deck) design; Dolby B and C noise reduction on both decks; soft-eject; high-density heads on both decks; direct-coupled electronics. FR 30-14,000 Hz; w&F 0.12%. 4.63 x 17 x 9.88 in.; 7 lb. 11 oz. . . . . \$210

## TC-FX150 Cassette Deck

Cassette deck with Dolby B and C noise reduction. Features soft-touch controls; soft eject; high-density heads; 5-segment LED meter. FR 30-14,000 Hz; w&F 0.12%. 4.63 x 17 x 9.88 in.; 6 lb. 7 oz. . . . . \$120

## TANDBERG

### TCD 3014A Cassette Deck

8-bit, 32-K, E-PROM microprocessor-controlled stereo cassette deck with 4 servo-controlled tape-transport motors. Features scan to play; scan to stop; auto rewind; auto replay; timer record/play; 3 heads; Dolby B and C; azimuth alignment; bias adjustment; record current adjustment utilizing built-in test system; linear motor to position heads and pinch-rollers to tape; instant "flying start" record/play; Dyneq record equalization; Actilinear II headroom-extension system; peak-reading meters; cue and review at half-speed; real time/real revolution counter; LED indication of all transport functions. Wireless infrared remote control with built-in receiver included. Rosewood side panels and rack mounts available . . . . . \$2,500

## TEAC

### R-616X Stereo Cassette Deck

Autoreverse cassette deck with bi-directional record/play; autoreverse; repeat; IC logic controls; Dolby Hx; dbx & Dolby B-C NR; 15 program random memory play; block repeat; one touch recording; bias fine adjust; rec. mute with auto spacer; auto tape selector; MPX filter switch; timer/play standby function; tape direction indicators; independent record levels. w&F .05% wrms; FR 25-20,000 Hz (metal); S/N 90 dB (dbx in over 1 kHz); 11 lb. . . . . \$500

### V-670 3 Head Cassette Deck

3 head cassette deck with Dolby HX PRO and Dolby B-C NR. Bias fine tuning; rec. mute with auto-spacer; auto-tape selector; electronic tape counter with index and tape-run time modes; master recording level control w/it left and right channel preset; two-color left/right program level meters; multi-function fluorescent display. 4.81 x 17.13 x 10.38-in; 11.02 lb \$450 V-570. Similar to above but two head . . . . . \$350

### W-450 Autoreverse Double Cassette Deck

Autoreverse double cassette deck with continuous playback and bi-directional recording in deck II. Features Dolby HX and Dolby B-C NR; sync reverse

capability; sync dubbing capability; one program skip function in deck II; auto-tape selector. w&F.05% wrms; FR30-17,000 Hz (metal); S/N70 dB Dolby C in; 4.81 x 17.13 x 10.75-in; 10.14 lb . . . . . \$290 R-455 CHX. Similar to above but not a double deck. . . . . \$220 V-285-CHX. Similar to above but not autoreverse . . . . . \$150

### V250/255 Cassette Deck

Dolby B; direct function mechanism; auto stop mechanism; metal capability; 3 position tape selector; one-touch recording. w&F.09% wrms; FR30-18,000 Hz (metal); S/N 65 dB Dolby B; 4.75 x 17.13 x 8.44-in; 6.39 lb. . . . . \$120

## TECHNICS

### RS-T80R Double Cassette Deck

Features quick autoreverse, record, and play for both transports; 4 reverse modes; parallel and 3-hr series recording on both transports; series playback; synchro start; FL display; auto bias/EQ; feather-touch controls; remote-control capability with some Technics receivers; high-speed editing; 4 heads; 2 motors; Dolby B, Dolby C, dbx NR; elapsed-time counter; music select; headphone jack. w&F 0.08% wrms; S/N (A-wtd) high bias 57 dB no NR, 67 dB Dolby B, 75 dB Dolby C, 92 dB dbx. 16.94 x 4.36 x 10.91 in; 11.7 lb. . . . . \$680

### RS-B905 Cassette Deck

Features closed loop dual capstan transport; 3 heads with noise reduction circuitry for decoded monitoring during record; Dolby HX processing; Dolby B and C noise reduction; dbx; 2-motor transport; FL display; bias control; record calibration tone generator; MPX filter; auto rec-mute; headphone jack with adjustable level. . . . . \$660

### RS-T55R Double Cassette Deck

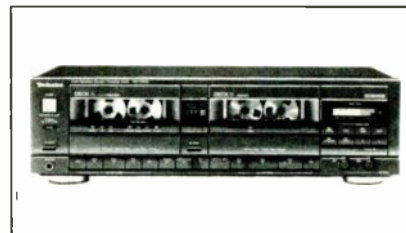
Features quick autoreverse for both transports; Dolby B, Dolby C, and dbx NR; high-speed dubbing; auto bias/EQ; synchro start, stop; rec mute; auto space; anti-resonant metallic feet; edit search on Transport A; soft-touch controls; 28-part digital peak readout . . . . . \$460

### RS-B605 Cassette Deck

Cassette deck with 3 heads with noise reduction circuitry for decoded monitoring during record. Features Dolby HX processing; Dolby B and C noise reduction; dbx; 2-motor transport; FL display; bias control; auto rec-mute . . . . . \$390

### RS-T330R Double Cassette Deck

Dual-well cassette deck with quick autoreverse re-



cord/play in transport A. Features high-speed editing; Dolby B and C noise reduction; FL display; series play; synchro-start; synchro-record-mute; synchro-stop; electronic switching; LED indicators; cue and review; headphone jack; automatic tape selection; timer capability . . . . . \$330

### RS-T230 Double Cassette Deck

Dual-well cassette deck with high-speed editing. Features Dolby B and C noise reduction; series play; synchro-start; synchro-record-mute; synchro-stop; electronic switching; LED indicators; cue and review; headphone jack; automatic tape selection; timer capability . . . . . \$230



# CASSETTE DECKS

## RS-T130 Double Cassette Deck

Dual-well cassette deck with high-speed editing. Features Dolby B noise reduction; series play; synchro-start editing; electronic switching; LED indicators; cue and review; headphone jack; automatic tape selection; timer capability ..... \$230

## RS-B105 Dolby B Cassette Deck

Features direct-mode switching; 2 heads; 2 motors; 1-touch recording; full auto stop; rec-level balance controls; timer rec/play; elapsed-time counter; 110 meters; soft-touch controls; mike inputs. w&F 0.08% wrms; S/N (A-wtd. with high-bias tape) 56 dB no NR, 66 dB Dolby B. 16.94 x 4.53 x 9.28 in; 6.6 lb. \$145

## TOSHIBA

### PC-5858 Double Cassette Deck

Double cassette deck with high-speed dubbing. Features IC logic design; Dolby B and C noise reduction; continuous play between decks; continuous record between decks; quick search selection; repeat function ..... \$399

## UHER

### CR 1601 Portable Cassette Deck

Compact front-loading portable cassette recorder with monitor facility featuring 8 hours record time and built-in voice actuating system. Features 3 heads; 2 motors; dual capstans; bias fine tuning; manual azimuth adjust; direct drive; elapsed-time counter; output level control; memory stop/play; LED meters; soft-touch controls; mike inputs; headphone jack; rec mute; 3 tape speeds: 1.88 ips, .94 ips and .16 ips with ALC. w&F < 2% wrms; FR ferric 20-19,000 Hz  $\pm$  3 dB; 9.3 x 2.3 x 7.3 in; 5 lb ..... \$1,799

### CR 1600 Portable Cassette Deck

Compact portable front-loading, fully electronic, remote control, auto-reverse, record/playback stereo cassette recorder with Dolby B. Features 8-hours record time with a built-in voice activation system; switchable ALC with 2-time constants; separate chan-



nel record level meters; 4-tracks; 1 7/8 adn 15/32 ips; 3-heads; 2-motors; soft-touch solenoid controls with built-in speaker; operates on dry cell, 12 V car battery, 110/220 V AC, w & F  $\pm$  1%; FR 30-16,000 Hz; A/V input capability; 9 x 2.3 x 7.3 in; 5.75 lb ..... \$1,799

### CR-160AV Portable Cassette Deck

Portable stereo cassette deck with Dolby B and C Noise Reduction. Features 2 heads; 1 motor; manual azimuth adjust; mike inputs; headphone jack; ALC with two time constants; sep channel record level control; 3 built-in monitor speakers. Operates on dry cells, 12-V car battery or 120 V AC. w&F 0.2% DIN; FR ferric 30-16,000 Hz  $\pm$  3 dB, high bias 30-16,000 Hz  $\pm$  3 dB; S/N ferric: 64 dB no NR, 55 dB Dolby B; high bias: 66 dB without noise reduction, 57 dB Dolby B; line-input sens for 0-dB reading 588 mV; line output level with 0-dB indication 775 mV; mike input sens 0.35 mV; mike input overload 20 mV. 9.3 x 2.3 x 7.3 in ..... \$999

## Accessories

### F-423 Diapilot

Self-contained unit for synchronized tape control operation of automatic slide projector for use with Uher open-reel and cassette decks. DIN plug connector ..... \$260

## Z-135 Power Supply/Charger

Power supply/charger unit for Uher cassette recorders ..... \$107

## VECTOR RESEARCH

### VCX-345 Double Cassette Deck

Double cassette deck with Dolby B and C NR. Features 2-speed dubbing; synchro-start dubbing; continuous play; power-assist transport controls; mic



inputs; manual dubbing/recording level; metal-tape capability; headphone jack. FR 40-17,000 Hz metal tape; S/N 73 dB (Dolby C), 65 dB (Dolby B); w&F 0.06% wrms. 16.56 x 4.31 x 8.25 in; 8.5 lb. .... \$250

### VCX-325 Double Cassette Deck

Double cassette deck with Dolby B NR. Features 2-speed dubbing; synchro-start dubbing; continuous play; power-assist transport controls; mic inputs; manual dubbing/recording level; metal-tape capability. FR 40-15,000 Hz metal tape; S/N 63 dB (Dolby B); w&F 0.08% wrms. 17.25 x 4.5 x 10 in; 8.5 lb. .... \$150

## YAMAHA

### KX-1200U 3-Head Cassette Deck

3-head cassette deck with 28-key wireless remote control. Features double dbx dynamic expansion; double Dolby B & C noise reduction; ORBIT system with optical balance tuning indicator; closed-loop dual-capstan tape transport; Dolby HX Pro dynamic bias servo; high quality amorphous head; full-logic control; optimum recording level indicator; RS integrated system remote compatibility. Black; 22 lb \$749

### KX-W900U Double Cassette Deck

Double cassette deck with autoreverse. Features amorphous recording and playback heads; play, record, and autoreverse on both decks; relay play and record; Dolby B and C and HX Pro; high speed dubbing; auto dubbing; skip dubbing; random program dubbing; manual dubbing; cross-Dolby dubbing; simultaneous independent recording; 44-key wireless remote control; random program play on both decks; music search on both decks; intro scan; record return; auto record mute; blank skip; auto tape selection; 4-digit electronic linear tape counter; 13-segment peak level meters on both decks; remaining time indicator ..... \$699

### KX-R700U Cassette Deck

Autoreverse cassette deck with autoreverse record and playback. Features full-logic, 3-motor tape transport; amorphous record/play head; dbx, Dolby B, Dolby C, and Dolby HX Pro; super bias; electronic record volume control; optimum record level indication; power eject and close; remaining tape time display; auto fade in/out; auto tape selector; rec return; bi-directional intro scan; 9-selection random program play; music search; programmable timer/clock; 39-key wireless remote control; MPX filter; blank skip; 0-memory; auto rec mute; memory stop; integrated system remote compatibility ..... \$579



## KX-800U Cassette Deck

3-head cassette deck with double dbx dynamic range expansion. Features Dolby B and C noise reduction; ORBIT optical balance tuning system; 3 motors; Dolby HX Pro; amorphous heads; master fader; MPX filter; linear time counter; 12-segment peak level meter; 28-key wireless remote control; integrated system remote compatibility; optimum record level indicator; random program play; intro scan; music search; repeat; record return; automatic rec mute; automatic tape selector; memory stop; headphone jack with adjustable level. S/N in Dolby B 69 dB, Dolby C 77 dB; dbx 90 dB; FR 20-22,000 Hz  $\pm$  3 dB ..... \$569

## KX-W302U Double Cassette Deck

Double cassette deck with autoreverse on both transports. Features play in both directions, record in one; full-logic operation; 12-layer amorphous laminate record play head provides high frequency response with very little noise and distortion; Dolby B and C noise reduction; one-touch dubbing at normal and high speed; relay play; auto tape selector; auto record mute; music search; MPX filter; 6-segment LED peak level display; Dolby HX Pro; optional remote control; integrated remote compatibility ..... \$449

## K-640B Autoreverse Cassette Deck

Autoreverse cassette deck with RS integrated system remote compatibility. Features amorphous head; auto fade; remaining time; intro scan; car EQ; Dolby B, C, and HX Pro; dbx. Black; 16 lb. .... \$449

## KX500U Cassette Deck

Cassette deck with Dolby B and C noise reduction. Features 3 motors; Dolby HX Pro; manual bias adjustment  $\pm$  20%; master fader; MPX filter; 12-segment peak level meter; 27-key wireless remote control; integrated system remote compatibility; play trim; random program play; bi-directional intro scan; music search; repeat; record return; automatic rec mute; automatic tape selector ..... \$399

## KX-W202U Double Cassette Deck

Double cassette deck with full one-way operation dual mechanism. Features hard permalloy record-play head; Dolby B and C NR; one-touch dubbing at normal and high speed; relay play; music search; record return; auto record mute; MPX filter; auto tape selector; optional remote control; integrated system remote compatibility ..... \$349

## KX-400U Autoreverse Cassette Deck

Features permalloy rotary head design; one-way auto reverse; Dolby B, C, and HX Pro; music search; auto tape selector; forward/reverse intro scan; blank skip; phrase repeat; auto fader; rec return; auto rec mute; timer rec/play; optional RS-KW5 wireless remote control; 2-color 6-segment LED peak level meters. Black; 11 lb. .... \$329

## KX-300U Cassette Deck

Cassette deck with Dolby B and C noise reduction. Features 2 motors; Dolby HX Pro; manual bias adjustment  $\pm$  20%; MPX filter; 7-segment peak level meter; 10-key wireless remote control; integrated system remote compatibility; play trim; bi-directional intro scan; music search; repeat; record return; automatic rec mute; automatic tape selector .. \$299

## KX-200U Cassette Deck

Cassette deck with RS remote system compatibility. Features Dolby B & C NR; permalloy head; full-logic operation; forward/reverse intro-scan; full repeat and phrase repeat; optional RS-KW5 wireless remote control; auto tape selector; rec return; auto rec mute; 2-color 6-segment peak-level meters. Black; 11 lb. .... \$229

## Accessories

RS-KW-5. Infrared remote control for all RS integrated system compatible cassette decks. .... \$50  
RMA-K20. Rack mount adaptor for KX-1200U \$18

# OPEN-REEL TAPE DECKS

## FOSTEX

### E-22 Open-Reel Deck

3-channel stereo master recorder/reproducer open-reel tape deck. Features 1/2-track stereo on 1/2-inch tape with a third, center channel for SMPTE time code or other cueing data; gapless punch-in/punch-out; spot erase; microprocessor-controlled transport; X1 R balanced inputs/outputs and phono inputs/outputs ..... \$3,995

### E-2 Open-Reel Deck

3-channel stereo master recorder/reproducer open-reel tape deck. Features standard 1/2-track stereo on 1/4-inch tape with a third, center channel for SMPTE time code or other cueing data; gapless punch-in/punch-out; spot erase; microprocessor-controlled transport; X1 R balanced inputs/outputs ..... \$3,750

### M-20 Open-Reel Deck

2-track recorder/reproducer open-reel deck. Features standard 1/2-track stereo format; 15 ips; 1/4-inch tap, 7-inch reels. FR 40-20,000 Hz ..... \$1,500

## REVOX

### B77 MKII Stereo Tape Recorder

Stereo open-reel tape recorder with 3 motors features two speeds (3.75 ips and 7.5 ips); 10.5" reel capacity; front-panel vari-speed control  $\pm 10\%$ ; integrated-drive-logic computer-type push-point function keys; built-in tape cutter; dual VU meters with peak level indicators; separate left/right record and input level controls; tape monitor switch; provision for remote control of all functions and electric timer operation; connectors for remote control of tape transport functions, remote control of variable tape speed, and

slide projector or crossfade unit. W&F less than  $\pm 0.1\%$  at 3.75 ips, less than 0.08% at 7.5 ips; IR  $+2/-3$  dB 30-16,000 Hz at 3.75 ips, 30-20,000 Hz at 7.5 ips; S/N  $< 64$  dB at 3.75 ips,  $< 67$  dB at 7.5 ips; mic input level/imp 0.15 mV/2.2 kilohms (low position, 50-to-600-ohm mikes), 2.8 mV/110 kilohms (high, 20 kilohm mikes). Also available in high-speed, low-speed, super-low-speed, two- and four-track versions. 16.3 x 17.8 x 8.14 in; 37.5 lb. .... \$2,450

## TEAC

### X-2000M dbx Open-Reel Mastering Deck

2-track 3-head open-reel tape deck with dbx 1 features pitch control; EE tape capability; full logic feather-touch controls; tape/source monitoring; fine bias adjustment; real-time counter; mic/line mixing; mic attenuator; separate L/R input-level controls; direct-drive motor; accepts 10.5" reels; rec mute; timer function. Remote control optional. Tape speeds 15/7.5 ips; wow and flutter 0.02/0.03 wrms at 15/7.5 ips; S/N 100 dbx in, 46 lb; 17.9 x 17 x 10.5 in ..... \$2,235

## UHER

### 1200 Report Monitor Open-Reel Deck

Synchro full-track tape deck with neo pilot. Features 4 heads; AC on/off switch; switchable roll-off filter; built-in monitor speaker; optional beep generator; pilot frequency device for picture-sync recording. Tape speed 7.5 ips; IR 40-16,000 Hz  $\pm 3$  dB; W&F 0.15% wrms; S/N 62 dB; mike input sens 0.2-15 mV; line input sens 40 mV; output level 775 mV. 3.8 kg; 28.5 x 10 x 23.5 in ..... \$5,049

### 6000 Report Universal Tape Recorder

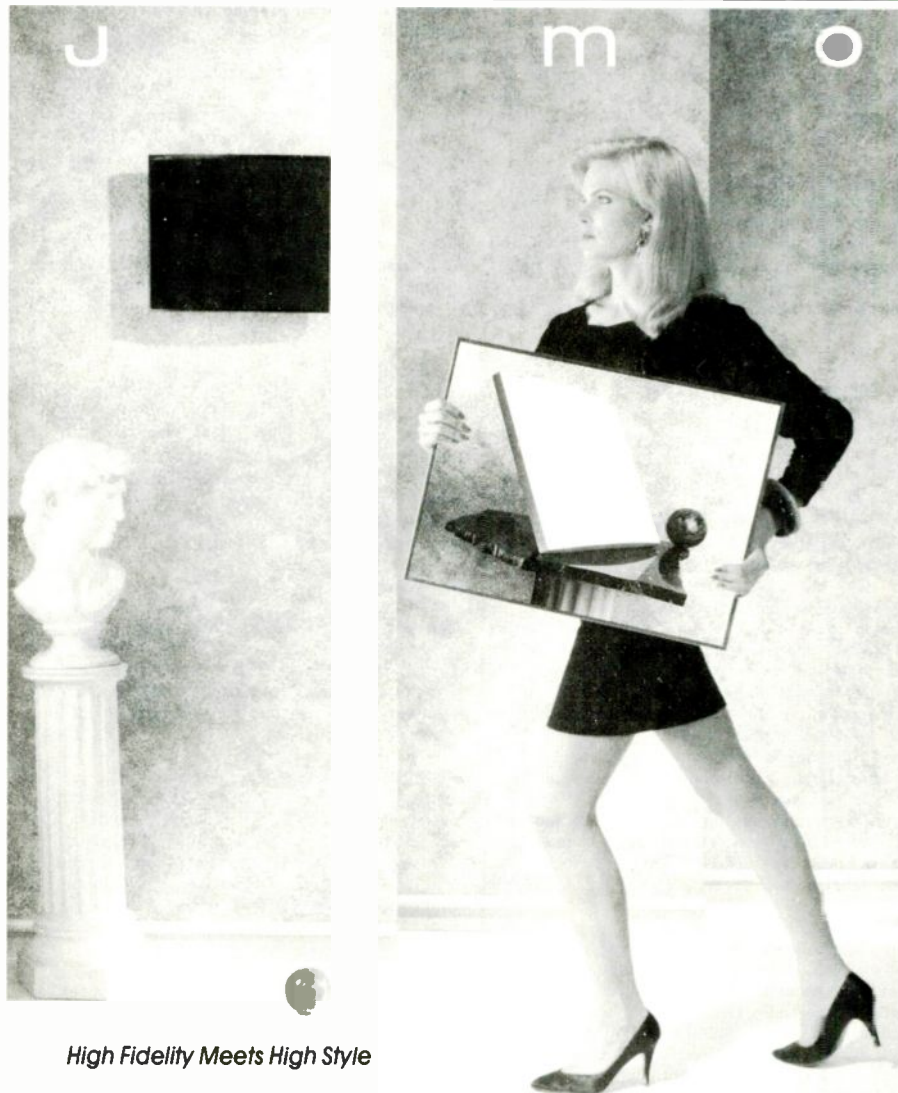
4-speed (3.75, 1.88, 0.94, 0.47 ips) tape recorder. Records up to 24 hours on 1 tape. Designed for monitoring, court reporting, surveillance. Features 5" reel capacity; built-in DNR; switchable auto level control; electronic tape tension control; 4 motors; switchable loudspeaker; tape counter; A/V input jack. 11 x 3.5 x 9 in; 8 lbs. .... \$1,729

### Report Monitor Series Tape Recorders

Report Monitor series decks feature 3 heads, LED function indicators, integrated power supply, fully electronic amp switching, battery or AC operation, tape-tension regulators, die-cast aluminum casings. All models can be used in portable or stationary applications. Speeds 7.5, 3.75, 1.88, 0.94 ips.

4400 Report Monitor, 4-track stereo ..... \$1,779

4200 Report Monitor, 2-track stereo ..... \$1,779



## High Fidelity Meets High Style

Music is an art that meets its match in the JAMO ART® loudspeaker.

For hi-fi that makes its statement in sight as well as sound, hang it up: JAMO ART.

Audio from Denmark.

**JAMO** Hi-Fi

JAMO Hi-Fi USA, Inc. 425 Huehl Rd., Bldg. 3A Northbrook, IL 60062  
312 498 4648

CIRCLE NO. 75 ON READER SERVICE CARD



4000 Report Monitor AV, Half-track monaural ..... \$1,665

### Accessories

F-423 Diapilot, Self-contained unit for synchronized tape control operation of automatic slide projector for use with Uher open-reel and cassette decks. DIN plug connector ..... \$260

F413 Acoustic Stop/Start Switch, Acoustic activated start/stop switch. Designed for use with Uher tape decks ..... \$139

Z-125A Power Supply, Power supply and charger for Uher Monitor series decks. .... \$130



# TURNABLES



## ACOUSTIC RESEARCH

### ES-1 Manual Turntable

Manual belt-drive turntable with 24-pole synchronous motor. Features 33 and 45 rpm speeds. w&f 0.04% wrms; rumble -78 dB; effective tonearm mass without cartridge 14.5 g; effective tonearm length 229 mm; max tracking error 2.6%. 7 x 18.19 x 15.25-in (dustcover down); 18 lb. Natural cherry, with tonearm ..... \$725  
Natural cherry, without tonearm ..... \$550

### EB-101 Manual Turntable

Manual belt-drive pivoted-arm turntable with fully isolated 3-point suspension. Arm and platter on subchassis formed by pressed-steel T-bar spring-suspended and damped at 3 points. 33,33 and 45 rpm. Features 12-pole synchronous motor (500 rpm at 50 Hz, 600 rpm at 60 Hz); 3.9-lb platter; detachable carbon-fiber headshell with clamping screw on arm; base finished in oiled walnut veneer. w&f 0.05% DIN; rumble -72 dB DIN; effective tonearm mass without cartridge 12 g; cartridge weight range 3-9 g; effective tonearm length 229 mm; overhang 16 mm; vertical and horizontal friction < 100 mg; 7 x 18.19 x 15.25-in (dustcover down); 13.5 lb ..... \$500

## ADC

### LT 60 Automatic Turntable

Linear-tracking belt-drive P-mount turntable. Features 33,33 and 45 rpm; soft-touch electronic controls; illuminated electronic strobe with pitch control; anti-feedback suspension. 5.0 x 16.5 x 15.5 in; 15.5 lb ..... \$150

### LT 34 Automatic Turntable

Compact linear-tracking belt-drive P-mount turntable. Features 33,33 and 45 rpm; 2 DC-servo-controlled motors; anti-feedback suspension. 3.5 x 13.25 x 13.75 in; 9.5 lb ..... \$120

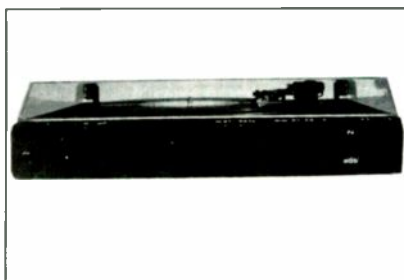
### RC1 Changer Turntable

Belt-drive turntable stacks up to 4 records. Features 33,33 and 45 rpm; viscous-damped cueing; electronically controlled DC-servo motor; ADC magnetic cartridge included. .... \$110

## a/d/s/

### Atelier P4 Automatic Turntable

Can be controlled by remote when used with a/d/s/ R4 receiver or CC4 tuner/preamp. With quartz-crystal-controlled direct drive; pivoted arm; ultra-low-mass tonearm; 33,33 and 45 rpm; variable speed control with strobe; holds platter and tonearm on a



subchassis that floats on 4 tuned mounts. w&f  $\pm 0.025\%$  wrms; rumble -75 dB DIN B, 53 dB DIN A; effective tonearm length 8.69"; max tracking error 2.2"; 4.53 x 17.5 x 14.25-in (dustcover down); 11 lb ..... \$700

### RC1 Unified Remote Control

Infrared wireless remote controls P4, R4 receiver. CD3 CD player, and other a/d/s/ components \$150

## AKAI

### AP-A305C-B Belt-Drive Turntable

Semi-auto operation; DC-servo motor; belt-drive system; T4P type plug-in cartridge; front panel operation control ..... \$99

## BANG & OLUFSEN

### Beogram 5500 Automatic Turntable

Automatic turntable with short tangential tonearm features both standard playing speeds of 33,33 and 45 rpm; silver and black; remote controlled by B&O Master Control Panel; repeats play up to 7 times; leaf-spring suspension, compatible with B&O micro-cross cartridges; auto record-size sensing; auto interior light. w&f 0.06% DIN, 0.03% wrms; DIN-weighted rumble -80 dB; 12.5 x 3 x 12.75 in; 11.6 lb .. \$499

### Beogram 9000 Turntable

Tangential tracking tonearm features both standard playing speeds of 33,33 and 45 rpm; Optimum Pivot Point tonearm suspension; 3-point leaf spring and



pendulum suspension system; integrated low-mass tonearm/cartridge combination; accepts all MMC 1-5 cartridges; servo-controlled DC motor; w&f less than 0.03% wrms. 16.5 x 3 x 12.75 in; 11.7 lb ..... \$450

### Beogram 3300 Belt-Drive Turntable

Belt-drive tangential tonearm features standard playing speeds of 33,33 and 45 rpm; remote control with Terminal 3300 remote, Master Control Link, or Datalink system; black plexiglass and brushed aluminum; can be wall mounted with optional shelves; repeat; interior light; auto pause at end of tape, and cassette deck pauses at end of LP; leaf-spring-suspended subchassis; neoprene belt; electronic speed control; 16.5 x 3 x 12.75 inches; 11.7 pounds ..... \$439

### Beogram TX-2 Automatic Turntable

Tangential-tracking automatic turntable with belt-drive features both standard playings speeds of 33,33

and 45 rpm; fixed headshell. Recommended tracking force 1-1.5 g; Wow and flutter 0.03% DIN; rumble -80 dB; 16.5 x 3 x 12.75 in; 11.6 lb. .... \$352  
**Beogram RX-2 Automatic Turntable**  
Belt-drive turntable with pendulum-suspended chas-



sis and straight pivoting tonearm; 33 and 45 rpm; fixed headshell. Recommended tracking force 1-1.5 g; w&f 0.035% DIN; rumble -75 dB; 16.5 x 2.5 x 17.9 in; 13.2 lb ..... \$249

## DENON

All arm and auto functions of Denon turntables are noncontact, microprocessor controlled.

### DP-591 Direct-Drive Turntable

Features massive wood base with isolation; 5.5-lb platter with high-torque direct-drive AC motor. Lift only ..... \$695

### DP-47F Direct-Drive Turntable

Features dynamic servo tracer; flat-twin direct drive; full auto plus locate function; thick wood base \$450

### DP-35B Automatic Turntable

Features dynamic servo tracer; flat-twin direct drive; high-density compound base. Black ..... \$325

### DP-23F Turntable

Full-size automatic turntable with dynamic servo tracer. Black ..... \$275

### DP-7F Turntable

P-mount automatic turntable with dynamic servo tracer. Black ..... \$200

## DUAL BY ORTOFON

### CS 7000 Semiautomatic Turntable

Belt-drive turntable with 24k gold-plated finish. Features Optimum Pivot gyroscopic gimbal tonearm system; carbon fiber headshell; fixed- and variable-VTA tonearm; heavy metal feet; full-floating subchassis; resonance-damped die-cast aluminum platter; auto stop; three standard operating speeds at 33,33, 45, and 78 rpm. Wow and flutter less than 0.025%; signal-to-noise ratio 80 dB. 17.5 x 5.25 x 15.25 inches; 25 pounds. .... \$750

### CS5000 Semiautomatic Turntable

Belt-drive turntable with hall-effect motor and 4-point full-floating suspension system. Features quartz-monitored 3-speed electronic control; optimum-pivot tonearm design; acoustic mat; 33,33, 45, and 78 rpm. w&f 0.015% ..... \$500

# TURNTABLES

## CS505-3 Semiautomatic Turntable

Belt-drive, heavy-mass platter and acoustic mat. Features floating chassis design; variable-pitch; carbon fiber headshell on ULM tonearm. Walnut or black wood base. . . . . \$350

## CS503-1 Semiautomatic Turntable

Belt drive turntable features solid block shock-absorbing chassis with damping feet; heavily damped platter; ULM tonearm; carbon fiber headshell. 33/45 rpm, w&F <0.07%/0.04%; rumble, unwt'd. 17.3 x 4.5 x 14.3 in. Black base . . . . . \$250

## CS2215GM Fully Automatic Turntable

Belt drive featuring die-cast aluminum platter with vario-pitch; shock absorber chassis; ULM tonearm with detachable headshell. Black base . . . . . \$300

## HEYBROOK BY D'ASCANIO AUDIO

### TT-2 Series II Turntable

Hand-assembled belt-drive 33.33- and 45-rpm armless manual turntable with removable armboard. Features low-speed synchronous motor driving massive 2-piece platter; adjustable 3-point spring-suspension subchassis of cast aluminum; laminated armboard; massive wood base. Finished in real walnut or gloss black. w&F <0.1% DIN peak wtd; rumble -73 dB wtd DIN-B. 6.25 x 17.5 x 14.25 in; 26 lb . . \$650

## HITACHI

### HTMD46 Automatic Turntable

Linear tracking; belt drive; MM cartridge with diamond stylus; auto size/speed selector; photo sensor return; feather-touch IC-logic control; muting; front-panel operation; die-cast aluminum-alloy platter; remote controlled through Hitachi HTA50AV or HPT120AV. Wow and flutter 0.045% weighted root mean square; signal-to-noise ratio 70 dB DIN-B\$180

## JVC

### ALFQ55BK Direct-Drive Turntable

Features coreless DC-servo direct-drive motor; fully-automatic operation with automatic record size and speed selector; low-mass straight tonearm; high-stability cabinet support system; large insulators; arm cueing control; double-servo quartz control; illuminated strobe on platter perimeter; plug-in cartridge connector. . . . . \$240

### ALF353BK Automatic Turntable

Automatic turntable features automatic record size and speed selector; DC-servo motor; arm cueing control; plug-in cartridge connector system; low-mass straight tone-arm. . . . . \$175

### ALA151BK Semiautomatic Turntable

Features automatic arm return; DC-servo motor; arm cueing control; low-mass straight tonearm; plug-in cartridge connector. . . . . \$100

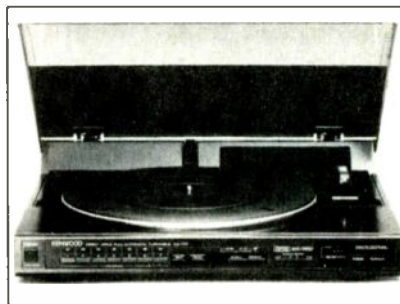
## KENWOOD

### KD-67F Direct-Drive Turntable

Features fully automatic mechanism; T-4P cartridge compatible tonearm; system remote controllable; auto function; linear tracking; coreless and slotless FG servo motor; 2 speeds; wow and flutter less than 0.025%; frequency response 20-20,000 Hz. 4.31 x 16.56 x 14.13 inches; 10.4 pounds . . . . . \$209

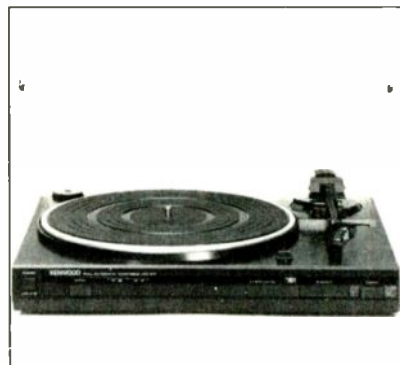
### KD-77FC Direct-Drive Turntable

Features linear tracking; 7-song random access programming; auto-disc size & speed selection; fully automatic mechanism; dual magnet type cartridge included; system remote controllable; auto function; coreless and slotless FG servo motor; 2 speeds; wow and flutter less than 0.025%; frequency response 20-20,000 Hz. 4.06 x 16.56 x 15.13 inches; 12.6 pounds . . . . . \$249



### KD-47F Belt-Drive Turntable

Belt-drive turntable with fully-automatic mechanism. Features system remote controllable ability; T-4P cartridge compatible tonearm; FG servo motor; 2 speeds; Wow and flutter 0.05%; 4.31 x 16.56 x 13.5 inches; 7.5 pounds . . . . . \$119



### KD-37R Belt-Drive Turntable

Belt-drive turntable with auto return mechanism. Features T-4P cartridge compatible tonearm; DC servo motor; 2 different playing speeds; w&F 0.05%; frequency response 20-20,000 Hz; 3.94 x 16.56 x 13.06 in; 8.2 lb . . . . . \$79

## KYOCERA

### PI-910 Manual Turntable

Armless belt-drive turntable with ceramic platter and base. Features 33.33 and 45 rpm; variable speed control with strobe; cutless-core power transformer; dual suspension; heavy-duty DC-servo brushless motor; 11-lb platter assembly. Wow and flutter 0.025% weighted root mean square; signal-to-noise ratio 78 dB DIN-B; accepts 9"-10" tonearms. 18 x 7.5 x 15.25 inches; 44 pounds. . . . . \$2,000

## LINN PRODUCTS

### LP12 Manual Single-Play Turntable

Belt-drive 33.33-rpm turntable with manual tonearm; 24-pole synchronous motor; 12" zinc-aluminum alloy die-cast platter with felt mat; 1-point oil-bath bearing; hardened tool-steel spindle; adjustable 3-point spring-suspension subchassis; heavy-gauge stainless-steel base plate; solid hardwood base; optional 45-rpm adapter. rumble -60 dB unwt'd; speed



accuracy  $\pm 0.04\%$ ; 5.5 x 17.5 x 14 in. . . . . \$1,165

### Axis Manual Turntable

With Class A amplifier; belt-drive; pivoted arm. Plays 33.33-rpm LP's and 45-rpm singles. Speed



accuracy 0.1%; W&F 0.05%; rumble -75 dB DIN; effective tonearm length 284 mm; 16 lbs . . . . \$740

## LUXMAN

### P-102 Belt-Drive Turntable

Automatic linear-tracking turntable with strobe, variable speed control, floating tonearm/platter suspension, cueing lever, repeat play, manual play, P-mount compatible. Remote capable. w&F 0.04% wrms; rumble 70 dB; effective tonearm length 133 mm; max tracking error 0.1°. 16.36 x 4.5 x 14.06 in (dustcover down); 11.61 lb . . . . . \$450

## MARANTZ

### TT-451 Linear-Tracking Turntable

Automatic linear-tracking turntable. Features auto-speed/-size selector; P-mount compatible; 33.33 and 45 rpm; w&F 0.05% wrms; rumble -70 dB. 3.75 x 16.36 x 13.56; 9.5 lb. . . . . \$230

### TT-185CTBL Belt-Drive Turntable

Belt drive turntable features semiautomatic DC-servo motor; damped cueing; P-mount cartridge; straight low-mass tonearm; front panel controls. 3.87 x 16.5 x 13.5 in; 9.5 lb . . . . . \$139

### TT-170CTBL Semiautomatic Turntable

Belt drive turntable features front panel cueing; P-mount cartridge; 33.33/45 rpm; w&F 0.08% wrms; rumble -55 dB. 4.63 x 16.5 x 13.25 in; 9.5 lb . . \$100

## MICRO SEIKI BY ANALOG EXCELLENCE

### SZ-1T Zinc Turntable

Massive zinc-alloy turntable system with vacuum hold-down; belt drive; 33.33 and 45 rpm; variable speed control; strobe; outboard air-bearing motor with high-inertia flywheel spindle; 44-lb bronze platter. W&F 0.025% wrms; S/N 90 dB A-wtd. 12 x 5 x 18-in (dustcover down); 240 lbs . . . . . \$14,000

SZ-1TSS. Same as above with 48-lb steel platter, 2 tonearms, and isolation base. 260 lbs. . . . . \$20,000

### SX-111FV Belt-Drive Turntable

Vacuum hold-down; air-bearing system; rosewood cabinet; 22-lb bronze platter; 33.33 and 45 rpm; variable speed control. W&F 0.0225% wrms; S/N 78 dB A-wtd; 532 mm w x 400 d x 230 h . . . . . \$3,995

### SX-555FVW Manual Turntable

Belt-drive turntable with patented quadruplex isolation feet and vacuum hold-down; rosewood cabinet; 17-lb air-bearing bronze and aluminum duplex platter; 33.33 and 45 rpm; variable speed control. Wow and flutter 0.025% weighted root mean square; signal-to-noise ratio 78 dB A-wtd. 7.5 x 21.5 x 17.5-in (dustcover down); 47 lbs . . . . . \$2,995



# TURNABLES

## RX-1500VG Thread-Drive Turntable

20-lb bronze platter turntable with light-force vacuum record hold-down; 33.33 and 45 rpm; variable speed control; nonresonant zinc alloy frame and outboard motor; 4-lb sealed oil-bath center spindle. W&F 0.025% wrms; S/N 85 dB A-wtd. 26 x 6.5 x 16 in; 100 lbs. . . . . \$2,995  
**RX-1500FVG.** Air-bearing version of above. 120 lbs. . . . . \$3,995

## BI-99V Manual Turntable

Belt-drive turntable with light-force vacuum hold-down; walnut finished cabinet; 33.33 and 45 rpm; variable speed control; 7-lb aluminum platter; 4-lb tonearm base drilled to individuals' specifications. W&F 0.025% wrms; S/N 78 dB A-wtd. 7.5 x 21.5 x 17.5-in (dustcover down); 35 lbs. . . . . \$1,895  
**BI-99VW.** As above but with SAEC WE-407 tonearm . . . . . \$2,295

## RX-1500 Basic Turntable

Belt-drive nonresonant zinc-alloy turntable with ability to mount 2 tonearms simultaneously. Features 33.33 and 45 rpm; variable speed control; aluminum platter. W&F 0.025 wrms; S/N 78 dB A-wtd. 6 x 19 x 13-in; 40 lbs. . . . . \$1,495

## NIKKO AUDIO

### P-5 Semiautomatic Turntable

Direct-drive semiautomatic turntable with 20-pole, 30-slot brushless IX 3-phase motor. Features die-cast aluminum platter; straight-line tonearm;  $\pm 3\%$  pitch control. W&F 0.085% wrms; rumble 38 dB weighted. . . . . \$220

### P-3 Semiautomatic Turntable

Semiautomatic full-size belt-drive turntable with P-mount tonearm, repeat key, and manual damped cueing. W&F 0.045%. . . . . \$110

## ONKYO

### CP-1057FB Integra Automatic Turntable

Computer-controlled quartz-PLL direct-drive turntable. Features pivoted arm; strobe; 33.33 and 45 rpm; triple-stage isolation; floating subchassis on 3-point suspension; gimbal-support tonearm bearings; computer-controlled tonearm functions; separate motor for tonearm; 2-speed search; straight low-mass tonearm; Polysorb vibration absorbing compound for record mat and cabinet feet; gold-lacquered platter; gold-anodized tonearm; opto-electronic record-end detector; black finish. Remote control optional. Wow and flutter 0.023% weighted root mean square; rumble <80 dB; effective tonearm length 226 mm; max tracking error  $+3\%$ ,  $-1\%$ . 17.44 x 6.25 x 16.12 in; 20 lb . . . . . \$360

### CP-1046FB Automatic Turntable

Computer-controlled direct-drive pivoted-arm turntable. Features PLL; quartz-lock; 33.33 and 45 rpm; 2-color quartz-lock indicator; triple-stage isolation system with floating subchassis; 3-point subchassis suspension; computer-controlled motor-assisted tonearm; opto-electronic record-end detector; straight low-mass tonearm; gimbal-precision tonearm bearings; 2-speed search; black finish. Remote control optional. W&F 0.025% wrms; rumble <75 dB; effective tonearm length 224 mm; max tracking error  $+3\%$ ,  $-1.5\%$ . 16.5 x 5.06 x 14.75 in (dustcover down); 13 lb . . . . . \$240

### CP-1036A Semiautomatic Turntable

Direct-drive pivoted-arm turntable. Features PLL; quartz-lock 33.33 and 45 rpm; triple-stage isolation with floating subchassis; front-panel controls; straight-line low-mass tonearm; gimbal-support precision tonearm bearings; black finish with smoked dustcover. W&F 0.025% wrms; rumble <70 dB; effective tonearm length 224mm; max tracking error  $+3\%$ ,  $-1.5\%$ . 16.5 x 5.06 x 14.75 in (dustcover down); 12 lb . . . . . \$190

## CP-116F Semiautomatic Turntable

Belt-drive turntable with auto-return and -reset controls. Features front-panel controls; straight-line low-mass tonearm; damped cueing. W&F 0.045% wrms; rumble <70 dB; effective tonearm length 210 mm; max tracking error  $+4.5\%$ ,  $-1\%$ . 16.5 x 5.06 x 14.75 in (dustcover down). . . . . \$120

## ORACLE AUDIO

### Premiere Mark III Manual Turntable

Belt-drive turntable without tonearm. Remote control power drive module, 33.33 and 45 RPM; variable-speed control; strobe; hi-torque DC motor; adjustable spring-suspension system; record-coupling system; tonearm cartridge protractor, strobe disc included. 20 x 6.5 x 15 in; 42 lb . . . . . \$2,350  
**Gold Plated.** Premiere Mark III aluminum and 24k gold plating. . . . . \$2,950

### Delphi Mk III Manual Turntable

Belt-drive turntable without tonearm. Features 33.33 and 45 rpm; hi-torque DC motor; adjustable spring-suspension system; record-coupling system; tonearm/cartridge protractor and strobe disc included. 19 x 6 x 14 in; 35 lb . . . . . \$1,395  
**Delphi Aluminum.** Aluminum/24k gold plating. . . . . \$1,995  
**Delphi Black.** 24k gold plating . . . . . \$2,295

### Alexandria Mark III Manual Turntable

Belt-drive turntable without tonearm. Features 33.33 and 45 rpm; hi-torque DC motor; adjustable spring-suspension system; record-coupling system. 20 x 6 x 15 in; depending on finish. . . . . \$850 to 1,050

## PARASOUND

### T/FS-880 Semiautomatic Turntable

Belt-drive; floating suspension (motor separate from subchassis); P-mount compatible; die-cast platter; decoupled counterweight. W&F 0.025%; rumble -72 dB; effective tonearm length 222 mm; 17 x 4 x 14.25 in. . . . . \$200

### TTb-720 Semiautomatic Turntable

Belt-drive; front-mounted controls; P-mount compatible; 33.33 and 45 rpm; variable speed control; strobe; pivoted straight arm; DC-servo motor; damped spring suspension isolated from bottom of base. W&F 0.05% wrms; rumble -65 dB; effective tonearm mass without cartridge 14 g; effective tonearm length 215 mm; max tracking error 1.6°. 16 x 3.75 x 12.75 in (dustcover down); 10 lb . . . . . \$110

## PIONEER

### Elite PL-90 Automatic Turntable

Direct-drive turntable with coreless, quartz-PLL DC-servo motor with stable hanging rotor. Features straight tonearm made out of alumina-ceramics; 33 $\frac{1}{3}$  and 45 rpm play speeds; 14 $\frac{1}{16}$ -inch platter. W&F 0.018%. 8.5 x 23.5 x 17 in . . . . . \$950

### PL-910 Automatic Turntable

Belt-drive turntable with DC servo-motor. Features statically balanced linear tracking tonearm with DRA; 33 $\frac{1}{3}$  and 45 rpm play speeds; integrated IM type cartridge .6 mm diamond stylus. W&F .06%. 16.5 x 4.1 x 14 in; 6 lb, 3 oz . . . . . \$400

### PL-670(BK) Automatic Turntable

Direct-drive turntable with Stable Hanging Rotor. Features dynamic resonance absorber; T4P P-mount cartridge adaptor; Polymer Graphite straight tonearm; auto disc size selector. W&F 0.025%. 4.6 x 16.6 x 14.4 in . . . . . \$175

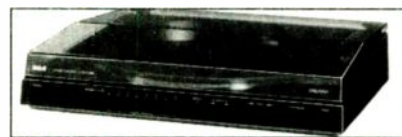
### PL-590 Automatic Turntable

Belt-drive turntable with DC servo-motor. Features statically balanced straight tonearm; 33 $\frac{1}{3}$  and 45 rpm play speeds; MM type cartridge; .6 mm diamond stylus. W&F .06%. 16.5 x 3.75 x 14 in; 6 lb, 3 oz \$135

## RCA

### MTT230 Linear Tracking Turntable

Dimensia turntable with remote-control operation and on-screen status indication when used with Dimensia monitor. Features belt-drive design; P-



mount cartridge; programmable track selection; system record-protection logic; auto size and speed selection; cue muting. S/N 65 dB; W&F less than 0.06%. 14.63 x 3.5 x 14.25 in. . . . . \$249

## REALISTIC

### LAB-2200 Direct-Drive Turntable

Automatic linear-tracking turntable with Realistic/Audio-Technica dual-magnet P-mount cartridge, repeat button, straight tonearm, strobe, variable speed control, 33.33 and 45 rpm. W&F 0.065% wrms; rumble 62 dB DIN; effective tonearm length 132 mm . . . . . \$150

### LAB 450 Semiautomatic Turntable

With Realistic/Shure MM cartridge; direct drive; neon strobe; straight tonearm; damped cueing; front-panel controls; 33.33 and 45 rpm; adjustable antiskating; rubber mat; 45 adaptor. Rumble -65 dB; W&F <0.05%. . . . . \$130

### LAB-330 Turntable with Phono Preamp

Semiautomatic turntable with switchable stereo preamplifier for compatibility with MM inputs, ceramic phono inputs, or high-level tape or aux inputs. With Realistic/Audio-Technica cartridge; belt drive; neon strobe; pitch control; damped cueing; rubber mat; 45 adaptor; straight tonearm; electronically controlled DC motor; 33.33 and 45 rpm. Rumble -55 dB; W&F <0.1%. . . . . \$90  
**LAB-89.** Similar to above except auto changer that stacks 4 records . . . . . \$90

## REVOLVER BY MUSIC HALL

### Revolver Belt-Drive Turntable

Split-plinth turntable with plinth and platter of medium density fibreboard and self-damping material. AC synchronous motor with 2-speed stepped pulley; ethylene proylene drive belt; 3 molded nonadjustable feet. Includes Precision Instant Grip clamp, starmat, lubricating oil. With Revolver tonearm. Redwood high-gloss finish. . . . . \$575  
 Black-ash veneer . . . . . \$525

### Revolver Rebel Turntable

Turntable including tonearm and cartridge. Gray metallic finish. . . . . \$379

## REVOX

### B291 Linear-Tracking Turntable

Quartz-controlled direct-drive turntable with patented Revox Linatrack system. Features ultra-short linear-tracking tonearm; pitch control regulation of  $\pm 9.9\%$  in precise 0.1% steps, with LED display showing the variation; P-mount cartridge adaptor; channel balance; auto start; front-panel-mounted controls; W&F <0.05%. 17.7 x 5.6 x 15.6 in; 20 lb . . . . . \$1,500

## SANSUI

### P-1000 Auto-Return Turntable

Automatic turntable features low-mass straight tonearm; auto-return operation; precision DC motor; cue operation; remote capability. Signal-to-noise ratio 72 dB; Cartridge frequency response 20-20,000; 0.6 milli-meter diamond stylus; 1.5 x 16.5 x 13.5 inches; 7.7 pounds . . . . . \$145

# T U R N T A B L E S

## PS-900E Semi-Automatic Turntable

Features belt-drive; low-mass straight tonearm; automatic return and power on/stop; cue; cut; pitch control and stroboscope. No cartridge. Wow and flutter less than 0.1% weighted root mean square; signal-to-noise ratio greater than 72 dB. 3.6 x 16.5 x 1.3 inches; 8.8 pounds. . . . . \$90

## SCOTT

### PS4004 Automatic Turntable

Belt drive; 33.33 and 45 rpm; soft-touch controls; integrated low-mass magnetic cartridge; pitch control with electronic strobe; frequency-governed DC servo motor; insulating feet; LED speed indicators; gold-plated output plugs. W&F 0.06% wrms; rumble <62 dB DIN B; 16.8 x 5 x 14.6 in (dustcover down) \$200

### PS70B Semi-Automatic Turntable

Features low-mass P-mount tonearm; fully-damped cueing; auto return and shutoff; pitch control with strobe; frequency-governed DC motor; hinged, adjustable dustcover. 4.4 x 16.5 x 13.25 in (dustcover down) . . . . . \$120

### PS59C Semi-Automatic Turntable

Semi-automatic belt-drive turntable. Features 33.33 and 45 rpm play speeds; P-mount arm and cartridge; pitch control with electronic strobe; frequency-governed DC servo motor; W&F 0.1% wrms; rumble <55 dB DIN B; 16.8 x 4 x 13.3 in (dustcover down) \$110

## SHERWOOD

### ST-887 Fully Automatic Direct-Drive Turntable

Digi-Link remote compatibility with other Sherwood products. P-mount cartridges; direct read-out stylus pressure indicator; DC servo motor; front-panel access to controls; 33.3/45 rpm variable pitch; illuminated strobe hinged tinted dust cover. . . \$180

### PF-1170R Fully Automatic Turntable

DC-servo motor direct drive; front-panel operating controls; fully automatic start, stop, return; repeat feature; pitch control with Strobe; maximum tracking error +2.6°, -1°; die-cast alloy platter; 45 rpm center adaptor; 2-speeds; W&F 0.06%; 4.6 x 17.3 x 15.0 in. . . . . \$179

### PM-1270 Turntable

Belt-drive turntable with MTD straight-line tonearm system. Features auto stop; die-cast alloy platter; pitch control with Strobe; cueing control; straight-line tubular static balanced tonearm; maximum tracking error +2.6°, -1°; 2-speeds; W&F 0.08%; 3.0 x 13.0 x 9.0 in . . . . . \$169

### ST-875 Semiautomatic Turntable

Belt-drive turntable features push-button cueing; auto reject; auto return; DC-servo motor; pivoted arm; P-mount compatible; 33.33 and 45 rpm. W&F 0.08% wrms; max tracking error +2.6°, -1°. 4.88 x 17.36 x 14.25; 11 lb . . . . . \$100

## SONOGRAPHE BY CONRAD-JOHNSON

### SG-3 Manual Turntable

Belt-drive turntable without tonearm. Tuned suspension, resonance-free polymer platter. W&F <0.02% wrms; rumble -65 dB; 6.75 x 18.25 x 14.5-in. (dustcover down); 23 lbs . . . . . \$449

## SONY

### PS-F17H Automatic Turntable

Front-loading linear-tracking automatic turntable. Features direct drive, PLL quartz-lock. P-mount compatible; 33.33 and 45 rpm; remote control capability. 17 x 3.88 x 15.12 in; 16 lb. . . . . \$350

### PS-LX520 Automatic Turntable

Fully automatic linear-tracking turntable. Features

direct drive, PLL quartz-lock, P-mount compatible. 33.33 and 45 rpm; gel-filled feet; remote control capable. W&F 0.035%; S/N 75 dB; effective tonearm length 3 inches; max tracking error ±0.1x. 17 x 3.62 x 14.36 in; 11 lb. . . . . \$270

### PS-LX430 Automatic Turntable

Belt-drive P-mount turntable with pivoted arm. Features 33.33 and 45 rpm, cueing lever, anti-resonance base, disc size selector, remote control capability. W&F 0.046%; rumble 70 dB. 17 x 4.5 x 14 in (dustcover down); 9 lb. . . . . \$180

## SOTA INDUSTRIES

### Cosmos Turntable System

Belt-drive turntable. Features inverted Sapphire bearing; massive 12 lb platter on 22 lb subassembly; 4 point corner weights and matching 4 spring design; regulated DC-drive, fully damped, fully isolated motor; vacuum hold-down; vinyl-format Vinyl-Mimic; rigid arm support; one-piece-design platter block; motor hard-mounted to subassembly. Comes with vacuum, reflex clamp, electronic flywheel, and deluxe tone arm board. W&F 0.03 wrms; rumble -88.2 dB; speed accuracy ±.02%; speed adjustment 5%. 20.25 x 16.5 x 7.5 in. Grey corian with wood inlay . . . . . \$3,500  
High-gloss black . . . . . \$4,000

### Star Sapphire Turntable

Manual 2-speed belt-drive turntable with variable speed control and strobe. Features vacuum hold-down; heavyweight (22 lb) sub-assembly for maximum isolation; exclusive inverted bearing with sapphire disc; single piece (11 lb) platter, rim drive; vacuum hold-down system; low-level pressure, continuous through play, adjustable vacuum. Includes acrylic vacuum supermat. All-wood top and speed control panel; heavy-duty dust cover, oak finish W&F 0.03 wrms; rumble -88.2 dB; speed accuracy ±.02%; speed adjustment 5%. 20.25 x 16.5 x 7.5 in; 44 lb; oak finish . . . . . \$1,600  
African rosewood, Koa, Walnut . . . . . \$1,750  
Ebony, Brazilian rosewood, Cocobola rosewood . . . . . \$1,900  
Black satin finish . . . . . \$2,000

### Deluxe Sapphire Turntable

Features inverted Sapphire bearing; massive 12 lb platter on 22 lb subassembly; 4 point corner weights and matching 4 spring design; regulated DC-drive, fully damped, fully isolated motor. W&F 0.03 wrms, rumble -88.2 dB; speed accuracy ±.02%; speed adjustment 5%. 20.25 x 16.5 x 7.5 in. Oak finish . . . . . \$1,195  
African rosewood . . . . . \$1,295

### Options

**Vacuum Conversion Kit.** For Sapphire model: same vacuum system, same features as on Star available as an upgrade for any Sapphire made. May be installed at factory on new Sapphire . . . . . \$695  
**Electronic Flywheel.** A/C line conditioner for the Sapphire and Star turntables only. Isolates and regulates motor/drive from all outside interference (voltage shifts, EMI, RFI, hash) . . . . . \$300  
**Vacuum Acrylic Supermat.** For Stars or vacuum Sapphires. Designed for optimal coupling, matched impedance, extreme damping . . . . . \$150  
**Reflex Clamp.** Couples record to platter (in conjunction with Supermat) with reflex action. One part grabs spindle while the second motion presses record against mat. Simple level action; aluminum casting; decoupled from record with foam. . . . . \$95  
**Aluminum Arm Board.** For SME, ET-2, Linn, The Arm, Premier FT-3, MMT, and MMT-VTA turntables . . . . . \$75

## TECHNICS

### SL-M3 Automatic Direct-Drive Turntable

Features 33.33- and 45-rpm; quartz lock PLL; P-

mount; variable speed; strobe. W&F 0.008% wrms; rumble -82 dB; effective tonearm length 238 mm; max tracking error within ±0.05%; 20.09 x 8.06 x 16.09 in (dustcover down); 33.1 lb . . . . . \$685

### SL-1200MKII Direct-Drive Disco Turntable

Quartz-controlled 33.33- and 45-rpm manual turntable. Features ±8% quartz-locked pitch control; quick start and stop; pop-up stylus light; gimbal-suspended tonearm with height adjustment; brushless DC motor; aluminum die-cast cabinet; anti-resonant visco-elastic main base. W&F 0.025% . . . . . \$570

### SL-M12 Manual Direct-Drive Turntable

Quartz-locked P-mount turntable; 33.33 and 45 rpm, variable speed control with optical sensor for end-of-record pickup. W&F 0.008% wrms; rumble -82 dB; effective tonearm length 230 mm; max tracking error ±2.32x; 17.8 x 6.7 x 16.2; 26.5 lb. . . . . \$520

### SL-M1A1 Automatic Direct-Drive Turntable

Features PLL quartz lock; P-mount; 33.33 and 45 rpm. W&F 0.012% wrms; rumble -80 dB; effective tonearm length 230 mm; max tracking error +0x 32' at inner groove and +2x32' at outer groove; 17.22 x 6.69 x 16.06 (dustcover down); 19.8 lb. . . . . \$460

### SL-J33 Programmable PLL Turntable

Direct-drive automatic P-mount turntable allows up to 8 tracks to be played in any order. Indicates number of tracks on album side and which track is playing. Remote controlled through some Technics receivers. Features linear tracking; quartz lock; 33.33 and 45 rpm; front-panel feather-touch controls; cueing; auto stylus muting. W&F 0.012%; rumble -78 dB; effective tonearm length 105 mm; max tracking error ±0.1x. 12.25 x 4 x 12.25 in (dustcover down); 9 lb . . . . . \$270

### SL-L20 Automatic Linear-Tracking Turntable

Belt-drive P-mount turntable can be operated by remote control through some Technics receivers. Front-panel soft-touch controls; cueing; 2-speed search; auto disc-size/speed detection to prevent tonearm from lowering on empty mat; 33.33 and 45 rpm. W&F 0.045% wrms; rumble -70 dB; effective tonearm length 105 mm; max tracking error ±0.1x. 17 x 3.74 x 13.75 in; 8 lb. . . . . \$205

### SL-QD33 Automatic Direct-Drive Turntable

Can be operated by remote control through some Technics receivers. P-mount; 2 motors to avoid mechanical linkages between tonearm and platter-drive motor; end-of-disc detection; electronic feather-touch front-panel controls; ultra-low-speed brushless DC motor for platter drive; 33.33 and 45 rpm; pivoting arm; quartz lock; strobe. W&F 0.012% wrms; rumble -78 dB; effective tonearm mass 7.5 g, length 230 mm; max tracking error ±2x. 17 x 4.5 x 14.75 in (dustcover down); 10 lb. . . . . \$210

### SL-QD22 Semi-Automatic P-Mount Turntable

Direct-drive turntable with 2 motors to avoid mechanical linkages between tonearm and platter-drive motor; end-of-disc detection; ultra-low-speed DC brushless motor; pivoting arm; PLL quartz lock; strobe; 33.33 and 45 rpm; front-panel electronic feather-touch controls. W&F 0.012% wrms; rumble -78 dB; effective tonearm mass 7.5 g, length 230 mm; max tracking error ±2x. 17 x 4.5 x 14.75 in (dustcover down); 10 lb. . . . . \$195

### SL-BD22 Semi-Automatic P-Mount Turntable

Belt-drive turntable with aluminum die-cast full-gimbal pivot with highly rigid lightweight aluminum tonearm. Features front-panel cueing control; TNRC vibration-isolation base; pivoted arm; 33.33 and 45 rpm. W&F 0.45% wrms; rumble -70 dB DIN B; 17 x 4.5 x 14.75 in (dustcover down); 8 lb . . . . . \$135

### SL-BD1 Manual P-Mount Turntable

Belt-drive turntable with variable speed control; strobe; 33.33 and 45 rpm. W&F 0.045% wrms; rumble



# T U R N T A B L E S

-70 dB; effective tonearm mass without cartridge 7.5 g, length 230 mm; max tracking error +0x 32" at inner groove and +2x 32" at outer groove; 16.94 x 3.94 x 14.75 in; 7.1 lb. .... \$130

### SH-100 Plug-In Headshell

Aluminum die-cast universal plug-in headshell with calibrated overhang cursor and gold-plated contacts for Technics tonearms. .... \$16

### Turntables Without Tonearms

#### SP-10MK3 33/45/78-rpm Turntable

Quartz-synthesizer direct-drive turntable with high torque for full speed in 30x of rotation; electronic, mechanical braking for speed change in 0.3 sec; high-precision integral rotor-platter quartz motor; quartz-locked pitch control (0.1% steps to ± 9.9% all speeds). Separate power supply in remote-control unit with numeric LED speed, pitch displays; soft-touch switches (start/stop duplicated on turntable). w&f 0.015% wrms ± 0.001%; 14.22 x 14.22 x 4.44 in; turntable weight 40 lb; power supply/control unit 13.2 lb \$2,840 SH-10B5. Optional turntable base ..... \$1,230

#### SP-10MK2A 33/45/78-rpm Turntable

Quartz-synthesizer direct-drive turntable with high torque for full speed in 25x of rotation; electronic, mechanical braking for speed change in 0.3 sec; separate power supply, remote-control unit. w&f 0.025% wrms ± 0.035%; rumble -70 dB DIN-B; speed drift within ± 0.002%; 14.49 x 14.49 x 4.02 in; 20.9 lb ..... \$1,550 SH-10B3. Optional base ..... \$950

#### SP-15 33/45/78-rpm Turntable

Quartz-synthesized direct-drive turntable reaches full speed in 0.4 sec (40x of rotation); stops in 0.4 sec (40x of rotation) at 33.33 rpm; ± 9.9% quartz-locked pitch control. w&f 0.025% wrms; rumble 56 dB DIN-A, 78 dB DIN-B. .... \$980  
 SP-25. Similar to SP-15 except no 78-rpm speed, ± 6% pitch control. .... \$600  
 SH-15B2. Heavy acoustic rubber base with simulated wood for SP-25 and SP-15 ..... \$540  
 SH-15B3. Similar to SH-15B2 except heavy acoustic rubber base only. .... \$540

## THORENS BY EPI

*All Thorens turntables are belt-driven, single-play units having straight tubular tonearms for maximum rigidity; gimbal suspension; antiskate control; 9.12" effective tonearm length; tracking error < 0.18"/cm (< 0.46"/in.).*

#### TD 520 Semiautomatic Single-Play Turntable

Belt drive with automatic tonearm lift, motor shut-off. 33.33, 45, 78 rpm; electronic speed selection; ± 6% pitch control; stroboscope; velocity-sensing auto shut-off trigger; frictionless magnetic antiskating; twin solid-core chassis and 3-point leaf-spring suspension. w&f 0.035%; rumble -72 dB unwd ..... \$1,100  
 TD 521. Same as above without tonearm .. \$1,000

#### TD 320 Semiautomatic Single-Play Turntable

Belt-drive 33.33 and 45-rpm turntable with solid core chassis; 16-pole synchronous motor; twin solid-core chassis and 3-point leaf-spring suspension; friction-free velocity sensing auto shut-off triggering. w&f 0.35%, rumble -52 dB unwd, -72 dB wtd; 6.75 x 17.36 x 13.88-in ..... \$600  
 TD 321. Armless version of TD-320 ..... \$500

#### TD 318 Semiautomatic Single-Play Turntable

Belt-drive 33.33 and 45 rpm turntable with 16-pole synchronous motor; twin solid-core chassis; 3-point leaf-spring suspension; frictionless velocity-sensing auto shut-off trigger. W&F 0.04%; rumble -50 dB unwd, -70 dB unwd; 6 x 17 x 14-in ..... \$450  
 TD 316. Manual turntable similar to TD 318 without auto lift and shut off ..... \$350

#### TD 280 Semiautomatic Single Play Turntable

Belt-drive 33.33/45 rpm with 24-pole synchronous motor. 1-piece solid-core chassis and spring damping elements in feet; frictionless velocity-sensing auto shut-off trigger. w&f 0.045%; rumble -48 dB unwd, -70 dB wtd; 5.3 x 17 x 14-in ..... \$275

## TOSHIBA

#### SR-5638 Automatic Turntable

Automatic, belt-drive features front panel cueing; start; stop; power select; speed select; magnetic cartridge play. 45 and 33.33 rpm ..... \$129

## YAMAHA

#### PF-800B Semiautomatic Turntable

Belt-drive pivoted-arm semiautomatic turntable

with dynamic balance twin-pipe tonearm. Features two-section zinc plus aluminum platter; operates at both 33.33 and 45 rpm speeds; variable speed control ± 6 percent. Wow and flutter 0.023 percent weighted root mean square; rumble 80 dB; effective tonearm length 8.75"; 18.62 x 6.12 x 14.75 in (dust-cover down); 35 lb ..... \$599

#### TT-500U Automatic Turntable

Direct-drive turntable with RS integrated remote system compatibility. Features straight tonearm design; resonance absorbing turntable mat; disc clamper. Black; 15 lb ..... \$269

#### TT-300U Semiautomatic Turntable

Belt-drive semiautomatic turntable with straight tonearm design. Features resonance absorbing turntable mat; EP adaptor. Black; 10 lb ..... \$159



SK315  
Wet/Dry  
Automatic  
CD Cleaner

Your CDs sound their best when dust and fingerprints don't force error corrections. Now you can thoroughly clean your CDs with the Signet SK315 Wet/Dry CD Cleaner...and it's fully automatic. Simply add four drops of Signet fluid, insert the CD, and press the power button.

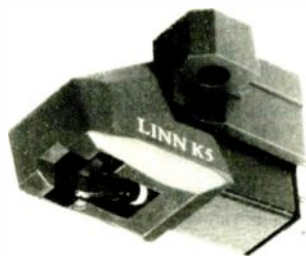
First, the fluid dissolves fingerprints and lifts dirt, then the dry pad automatically buffs the CD to perfection. Only Signet has this two-stage wet and dry action.

Clean up your sound today with the SK315 CD Cleaner...only from your Signet dealer.

# signet®

CIRCLE NO. 67 ON READER SERVICE CARD  
4701 Hudson Drive, Stow, OH 44224

# CARTRIDGES & TONEARMS



## ADCOM

### SXC-van den Hul MC Phono Cartridge

High-output MC cartridge with tubular sapphire cantilever and van den Hul stylus. Features 3.5-micron contact radius; vertical groove extended to 85 microns; aluminum cantilever; crosscoil armature. Output 2.3 mV at 5 cm/s; FR 20-20,000 Hz +3, -0 dB; tracking force 1.8 g; square-wave rise time 7 ms; ch sep 20 dB 200-20,000 Hz; 4.7g ..... \$500

### XC-MRII Moving-Coil Phono Cartridge

High-output MC cartridge with nude-mounted square-shank stylus. Features thin-walled aluminum cantilever; crosscoil armature. Output 2.3 mV at 5 cm/s; FR 20-20,000 Hz  $\pm$  1 dB; ch sep 28 dB at 1 kHz; tracking force 1.8 g; effective tip mass 0.35 mg; 0.15 mil x 3.0 mil scanning radius; weight 4.7 g ... \$360

### XC-I.TII Moving-Coil Phono Cartridge

High-output MC cartridge with Line-Trace stylus, thin-wall aluminum cantilever, crosscoil armature. Output 2.3 mV at 5 cm/sec; FR 20-20,000 Hz  $\pm$  1 dB; ch sep 28 dB at 1 kHz; tracking force 1.8 g; effective tip mass 0.35 mg; weight 4.7 g ..... \$290

### HC-vdH II Moving-Coil Phono Cartridge

High-output MC cartridge with van den Hul stylus. Features thin-wall aluminum cantilever; crosscoil armature. Output 2.3 mV at 5 cm/s; FR 20-15,000 Hz +1.5/-1 dB, 20-20,000 Hz +2.5/-1 dB; ch balance within 1.5 dB; tracking force 2 g; effective tip mass 0.35 mg; 4.7g ..... \$250

HC-E.II. Similar to HC-VDH II except with elliptical stylus ..... \$160

## AKG ACOUSTICS

### P100LE Phono Cartridge

Hand-made cartridge using the patented Transverse-Suspension, Tapered Beryllium Cantilever. Features analog-6 stylus; adjustable vertical tracking angle; 5 year warranty; limited edition. Moving-iron cartridge ..... \$1,000

P100I.E-vdH. Same as P100LE except stylus is a van den Hul II type ..... \$1,000

### Super Nova P8ES Phono Cartridge

Moving-iron cartridge with patented transversal suspension system with the new van den Hul II replaceable diamond. Features FR/crosstalk curve; carbon-fiber stylus brush; screwdriver. Output 2.8 mV at 3.54 cm/sec; FR 10-28,000 Hz  $\pm$  1 dB; sep 30 dB at 1,000 Hz; tracking force range 1-1.5 g; cartridge weight 3.5 g ..... \$450

### P-25S Phono Cartridge

Variable-reluctance induced-magnet cartridge with patented diamond-technology transverse-suspension system, cylindrical/magnet design. Features FR/crosstalk curve; carbon-fiber stylus brush; screwdriver; antiresonance compound. Output 2.7 mV at 3.54 cm/sec rms; FR 10-28,000 Hz; sep  $\pm$  1 dB; tracking-force range 0.75-1.25 g; diamond "Analog-Six" stylus mass 0.015 mg; 3.5 g ..... \$250

### P-15S Phono Cartridge

Variable-reluctance induced-magnet cartridge with patented diamond-technology transverse-suspension system, cylindrical magnet. Features FR/crosstalk

curve; carbon-fiber stylus brush; screwdriver, antiresonance compound. Output 3.4 mV rms at 3.54 cm/sec; FR 10-23,000 Hz, sep  $\pm$  1.5 dB; tracking force 1.0-1.5 g; elliptical diamond stylus; stylus mass 0.018 mg; 3.5 g ..... \$175

### P10 Studio Phono Cartridge

Designed for broadcast and disco; built-in stylus guard prevents damage during use. Output 5.8 mV at 3.54 cm/sec; FR 20-20,000 Hz  $\pm$  2 dB; sep 25 dB at 1,000 Hz; tracking force range 2.5-4.5 g; cartridge weight 3.5 g ..... \$130

### P-10S Phono Cartridge

Variable-reluctance induced-magnet cartridge with patented transverse suspension, cylindrical magnet. Features carbon-fiber stylus brush; screwdriver; antiresonance compound. Output 5.8 mV rms at 3.54 cm/sec; FR 20-20,000 Hz, sep  $\pm$  2dB; tracking force 1.25-2.0 g; elliptical diamond stylus; stylus mass 0.25 mg; 3.5 g ..... \$125

### P-5ED Phono Cartridge

Variable-reluctance induced-magnet cartridge with patented transverse suspension, cylindrical magnet. Features compatibility with automatic turntables, record changers; elliptical diamond stylus. Output 5.8 mV rms at 3.54 cm/sec; FR 20-20,000 Hz; sep  $\pm$  2 dB; tracking force 1.5-2.0 g ..... \$80

### P4 Phono Cartridge

Standard .5" mount cartridge designed for heavy-/medium heavy tonearms. FR 20-20,000 Hz; sep 20 dB at 1,000 Hz; tracking force 1.5 g; cartridge weight 3.5 g ..... \$50

P4DP. As above except standard TP4 mount .. \$50

## ANDANTE BY SUMIKO

### S Phono Cartridge

Micro-mass cartridge with aluminum-alloy tubular cantilever; 0.5-mil polished bonded-diamond spherical stylus; hand-wound coils. Output 5.0 mV; FR 18-27,000 Hz; sep 28 dB at 1 kHz compliance 18 x 10<sup>6</sup> cm/dyne; tracking force 1-2.5 g; input imp 47k ohms; 6 g ..... \$49

H. Similar to S except output 10 mV; FR 18-23,000 Hz; sep 27 dB at 1 kHz; compliance 15 x 10<sup>6</sup> cm/dyne ..... \$29

### HSP MM Phono Cartridge

Output 6 mV at 3.54 cm/sec; FR 18-25,000 Hz; sep 28 dB at 1,000 Hz; cartridge weight 6 g ..... \$39

### P-76 MM Phono Cartridge

Hand-wound coils; square-shank nude-mount with tapered line-contact diamond stylus. Output 2.5 mV at 3.54 cm/sec; FR 8-45,000 Hz  $\pm$  3 dB; sep 30 dB at 1,000 Hz; cartridge weight 5.9 g ..... \$70

### P-38 MM Phono Cartridge

Aluminum cantilever and elliptical diamond stylus ..... \$60

## AUDIO BY VAN ALSTINE

### Longhorn Phono Cartridge

Internally damped and externally stabilized phono cartridge. Features FR 10-60,000 Hz; sep 30 dB; output 4 mV; tracking force 1.5 g ..... \$99

## AUDIOQUEST

### AQ MC-5 Phono Cartridge

High output 2.5  $\mu$ V moving coil cartridge with line contact stylus; non-resonant polymer body; FR 20-20,000 Hz; aluminum cantilever ..... \$295

### AQ MC-4 Phono Cartridge

High output 2.5  $\mu$ V moving coil cartridge with direct phono input features elliptical stylus; compliance 10; non-resonant polymer body; FR 20-20,000 Hz; aluminum cantilever ..... \$245

### AQ MC-3 Phono Cartridge

Dynamic high output 3  $\mu$ V moving coil cartridge features non-resonant polymer body; compliance 8; tracks 2 grams; FR 20-20,000 Hz; aluminum cantilever; elliptical stylus ..... \$150

### AQ M-1 Phono Cartridge

Induced magnetic cartridge features elliptical stylus; compliance 25; FR 20-20,000 Hz; tracks 1.5 grams \$95

*The following cartridges are available in two output levels, either 1.6  $\mu$ V or 0.5  $\mu$ V.*

### AQ B-200 Phono Cartridge

High output moving coil cartridge features machined aluminum sandwich body; hollow boron cantilever; micro ridge ..... \$795

### AQ 404i Phono Cartridge

High output moving coil cartridge utilizes 15 micron wire for coils. Features aluminum body; non-resonant cast metal; hollow-boron cantilever; line contact ..... \$495

## AZDEN

### GM-PSI. Phono Cartridge

P-mount MC cartridge with Nude line-contact stylus and boron cantilever. Output 0.2 mV at 5 cm/sec; sep 30 dB at 1,000 Hz; tracking force range 1-1.5 g; cartridge weight 5.9 g ..... \$250

### YM-P50VI. Moving-Magnet Phono Cartridge

MM cartridge with Vital Nude line-contact stylus and tapered aluminum cantilever. Output 4 mV at 5 cm/sec; sep 30 dB at 1,000 Hz; tracking force range 1-1.5 g; cartridge weight 5.9 g ..... \$150

### YM-P50E Moving-Magnet Cartridge

Universal mount cartridge with aluminum tube cantilever and 0.3 x 0.7 mil elliptical stylus. tracking force 1.25+; cartridge weight 5.9 g ..... \$90

### YM-P20E Moving Magnet Phono Cartridge

Universal mount cartridge with 0.3 x 0.7 mil stylus. sep 24 dB; cartridge weight 5.9 g ..... \$70

### YM-P50C Moving-Magnet Phono Cartridge

MM cartridge with 0.65 mil conical stylus. Output 4 mV at 5 cm/sec; sep 24 dB at 1,000 Hz; cartridge weight 5.9 g; ch bal 1.5 dB at 1,000 Hz ..... \$60

## BANG & OLUFSEN

### MMC Series Phono Cartridges

All MMC cartridges feature armature mounted perpendicularly to the cantilever; crystal sapphire cantilever; multi-radial diamond; four high-output, low-imp



# CARTRIDGES & TONEARMS

coils wound on cores of very low permeability aligned in perfect symmetry with the magnet.

- MMC-1.** Diamond contact line 0.1 x 0.1 mm sq.; stylus bonding nude; cantilever sapphire tube; recommended tracking force 10 mN/1 gram; FR 20-20,000 Hz  $\pm$  1 dB; 1.6 g. . . . . \$490
- MMC-2.** Diamond contact line 0.12 x 0.12 mm sq.; stylus bonding nude; cantilever sapphire tube; recommended tracking force 10 mN/1 g; FR 20-20,000 Hz  $\pm$  1.5 dB; 1.6 g. . . . . \$325
- MMC-3.** Diamond elliptical 0.15 x 0.15 mm sq.; stylus bonding nude; cantilever tapered aluminum tube; recommended tracking force 10 mN/1 g; FR 20-20,000 Hz  $\pm$  2 dB; 1.6 g. . . . . \$215
- MMC-4.** Diamond elliptical 0.20 mm round; stylus bonding titanium; cantilever tapered aluminum tube; recommended tracking force 12 mN/1.2 g; frequency response 20-20,000 Hz  $\pm$  2.5 dB; 1.6 grams. . . . . \$125
- MMC-5.** Diamond elliptical 0.25 mm round; stylus bonding titanium; cantilever tapered aluminum tube; recommended tracking force 15 mN/1.5 g; FR 20-20,000 Hz  $\pm$  3 dB; 1.6 g. . . . . \$70

## CELLO

### Chorale MC Cartridge

Aluminum-alloy cantilever; elliptical stylus; weight



13 g. . . . . \$850

## CLEARAUDIO

### Phono Cartridges

#### Goldmund Equipment

**Clearaudio Goldmund Gold.** MS; standard mounting; individual response curve supplied; hyper elliptical stylus type; frequency response 10-50,000 Hz; sep 35 dB; tracking force 2.0-2.2 g; 5.4 g. . . . . \$1,795

**Clearaudio Goldmund.** MC; standard mounting; individual response curve supplied; hyper elliptical stylus type; FR 10-50,000 Hz; sep 35 dB; tracking force 2.0-2.2 g; 4.4 g. . . . . \$995

#### VPI Equipment

**PMC-2.** MC; spherical stylus type; individual response curve supplied; FR 10-50,000 Hz  $\pm$  1.5 dB; sep 40 dB; output 0.6 mV; tracking force 1.6-2.2 g; 10 g. . . . . \$1,100

**PMC-1.** MC; spherical stylus type; individual response curve supplied; frequency response 20-50,000 Hz  $\pm$  1.5 dB; sep 35 dB; output 0.6 g; tracking force 1.8-2.2 g; 6 g. . . . . \$740

### Tonearms

#### Souther Equipment

**Triquartz Top I.** Linear, changeable wand, cueing tonearm with adjustable vertical tracking angle; 2.0" pivot-stylus distance; 10" overall length; 0.5-3.0 tracking force; 1-20 g cartridge weight range; 2-.25" mounting holes. . . . . \$850

## DENNESEN ELECTROSTATICS

### ABL-T-1 Tonearm

Air-bearing lateral-tracking tonearm includes air pump. Entire armtube removable; any range desired.

Stylus overhang 0 millimeters; overall length and effective length vary (user adjustable); tracking error 0"; 1.5 lb. . . . . \$2,000

## DENON

### DL-1000 MC Phono Cartridge

Output 0.12 mV at 50 mm/sec; FR 20-110,000 Hz; sep 30 dB at 1,000 Hz; tracking-force range 0.8-0.1 g; cartridge weight 60 g. . . . . \$859

### DL-305 MC Phono Cartridge

Features twin radius; baron cantilever. Output 0.2 mV at 50 millimeters/sec; FR 20-75,000 Hz; sep 28 dB at 1,000 Hz; tracking-force range 1.2-0.2 g; cartridge weight 5.8 grams. . . . . \$559

### DL-304 MC Phono Cartridge

Moving-coil phono cartridge features baron cantilever; high compliance . . . . . \$395

### DL-302 MC Phono Cartridge

Features high output; detail, charm and depth; baron cantilever. Output 0.25 mV at 50 mm/sec; FR 28-70,000 Hz; separation 28 dB at 1,000 Hz; tracking-force range 1.4-0.2 grams; cartridge weight 6.0 grams. . . . . \$260

### DL-301 MC Phono Cartridge

Output 0.3 mV at 50 mm/sec; FR 20-60,000 Hz; sep 28 dB at 1,000 Hz; tracking-force range 1.4-0.2 g; cartridge weight 4.7 g. . . . . \$160

### DL-160 MC Phono Cartridge

Output 1.6 mV at 50 mm/sec; FR 20-50,000 Hz; sep 28 dB at 1,000 Hz; tracking-force range 1.6-0.3 g; cartridge weight 4.8 g. . . . . \$115

### DL-110 MC Phono Cartridge

Output 1.6 mV at 50 millimeters per second; FR 20-45,000 Hz; separation 25 dB at 1,000 Hz; tracking-force range 1.80-0.30 grams; 4.8 g. . . . . \$85

## DIGITRAC BY ORTOFON

### 300SE Phono Cartridge

Variable Magnetic Shunt cartridge with aluminum cantilever and nude fine-line diamond stylus. Output 4 mV at 5 cm/sec; FR 20-30,000 Hz; sep 24 dB at 1,000 Hz; high compliance 35  $\mu$ m/mN; tracking force range 1-1.5 g; cartridge weight 6 g. . . . . \$200

### 200NE Phono Cartridge

Variable Magnetic Shunt cartridge with aluminum cantilever and elliptical nude diamond stylus. Output 4 mV at 5 cm/sec; FR 20-25,000 Hz; sep 22 dB at 1,000 Hz; high compliance 30  $\mu$ m/mN; tracking force range 1.25-1.75 g; cartridge weight 6 g. . . . . \$140

### 100E Phono Cartridge

Variable Magnetic Shunt cartridge with aluminum cantilever and elliptical diamond stylus. Features dedicated P-Mount with universal application. Output 4 mV at 1,000 5cm/sec; FR 20-20,000 Hz; sep 20 dB at 1,000 Hz; high compliance 24  $\mu$ m/mN; tracking force range 1.25-1.75 g; cartridge weight 6 g. . . . . \$100

### 190S Moving-Magnet Cartridge

Variable Magnetic Shunt cartridge with elliptical stylus and universal mount. output 3.5 mV at 5 cm/sec; FR 20-20,000 Hz  $\pm$  3 dB; sep 20 dB at 1,000 Hz; tracking-force range 1.25-1.75 g; cartridge weight 6 g. . . . . \$60

## EMINENT TECHNOLOGY

### Model 2 Straight Tonearm

Air-bearing tonearm features straight line-tracking tonearm with adjustable VTA/SRA over an arc while playing record. Airpump included. Adjustable height; interchangeable arm tube with preset geometry; decoupled counterweight in horizontal plane; interchangeable preset counterweights. Headshell and tonearm manufactured as one piece. Effective mass 5-20

g vertical. 20-30 g horizontal; 400 g. . . . . \$950

## ENTRE BY ANALOG EXCELLENCE

### MC-9 Sapphire MC Phono Cartridge

Low-mass samarium-cobalt magnet; sapphire cantilever; 0.3-x-0.8 mil stylus. Output 0.25 mV at 5 cm/sec; FR 20-30,000 Hz  $\pm$  2 dB; sep > 26 dB at 1,000 Hz; tracking force 1.6-1.9 g; imp 3 ohms; cartridge weight 5.9 g. . . . . \$395

### MC-5 Boron MC Phono Cartridge

Boron cantilever; high-flux-density samarium-cobalt magnet. Output 0.25 mV at 5 cm/sec; FR 20-30,000 Hz  $\pm$  3; sep 26 dB at 1,000 Hz; tracking force 1.6-1.9 g; imp 3 ohms. . . . . \$295

### MC-1 Basic MC Phono Cartridge

Double-wound coils; vital nude diamond stylus. Output 0.5 mV at 5 cm/sec; FR 20-30,000 Hz  $\pm$  3 dB; sep 22 dB at 1,000 Hz; tracking force 1.8-2 g; cartridge weight 5.9 g; imp 3 ohms. . . . . \$195

## EPOCH

### Epoch II Series Model HZ9S Cartridge

MM cartridge has output of 0.8 mV. FR 10-25,000 Hz, individually calibrated to 20,000 Hz; sep 35 dB at 1,000 Hz, 22 dB at 10,000 Hz; tracking-force .75-1.5 g; cartridge weight 4 g. With Stereohedron II stylus . . . . . \$250

### I.Z9S Low Impedance Phono Cartridge

Includes Stereohedron II stylus. Output 0.04 mV; FR 10-50,000 Hz, individually calibrated to 20,000 Hz; sep 35 dB at 1,000 Hz, 22 dB at 10,000 Hz; tracking force 0.75-1.5; 3.8 g. . . . . \$250

### H.Z8S Phono Cartridge

Includes Stereohedron II stylus. Output 0.8 mV; FR 10-20,000 Hz; sep 35 dB at 1,000 Hz, 22 dB at 10,000 Hz; tracking force .75-1.5; 4 g. . . . . \$190

### I.Z8S Low Impedance Phono Cartridge

Includes Stereohedron II stylus. Output 0.04 mV; FR 10-20,000 Hz; sep 35 dB at 1,000 Hz, 22 dB at 10,000 Hz; tracking force .75-1.5; 3.8 g. . . . . \$190

### H.Z7S Phono Cartridge

Includes Stereohedron II stylus. Output 0.8 mV; FR 10-20,000 Hz; sep 30 dB at 1,000 Hz, 15 dB at 10,000 Hz; tracking .75-1.25; 4 g. . . . . \$120

### H.Z6E Phono Cartridge

Includes elliptical stylus. Output 0.8 mV; FR 10-20,000 Hz; sep 30 dB at 1,000 Hz, 15 dB at 10,000 Hz; tracking force 0.75-1.25; 4 g. . . . . \$95

## GRACE BY SUMIKO

### Cartridges

#### F-9E Ruby Cartridge

Fixed coil cartridge extended range super body with ruby cantilever and Ogura Vital diamond stylus \$395

#### F-9E Classic Cartridge

Advanced design fixed coil cartridge with laminated pole pieces and LC/OFF coils. Features aluminum-/magnesium alloy cantilever; Ogura Vital stylus \$250

#### F-9I Cartridge

Fixed coil cartridge with higher output body; aluminum/magnesium cantilever; trace diamond stylus . . . . . \$225

#### F-8I Cartridge

Fixed coil cartridge with high output body; aluminum cantilever; luminal trace stylus. . . . . \$200

### Tonearms

**G-747 Tonearm**  
Low mass with removable headshell . . . . . \$200

# CARTRIDGES & TONEARMS

## GRADO

### Joseph Grado Signature Series

TLZ Cartridge ..... \$500

#### MCZ Cartridge

Hybrid design with 4 separate magnetic gaps around cantilever; compatible with light- to medium-mass tonearms and standard 47,000-ohm MM inputs; user-replaceable stylus. Output 1.5 mV; resonance 8-12 Hz; torsional resonance approximately 25,000 Hz; resistance 70 ohms; inductance 9 Mh. .... \$300

#### 8MZ Cartridge

User-replaceable stylus; compatible with standard 47,000-ohm MM inputs; output 3.5 mV; electrical resistance 475 ohms; inductance 45 mH. .... \$200

*Specifications for all models below: 0.5" mounting centers (or optional P-mount for some); input load 47,000 ohms; inductance 45 millihenries; DC resistance 475 ohms; pickup weight 5 g.*

#### Professional Series

*Designed for high output and stability under severe use, for broadcast, in changers, or arms that will not track at 1 g; recommended tracking force 2-3 g. Output 4 mV at 3.54 cm/sec (45x); sep 20 dB 10-20,000 Hz.*

ZCE+. Specially selected units from Z production; elliptical diamond stylus ..... \$45  
ZTE+. Elliptical diamond stylus ..... \$30

#### Super Flux-Bridger Series

*With 0.5" or P-mount. Recommended tracking force 0.75-2 g. Output 4 mV at 3.54 cm/sec (45V); sep 25 dB 10-30,000 Hz.*

Z2+. True Ellipsoid stylus ..... \$265  
Z1+. True Ellipsoid stylus ..... \$180  
Z+. Grado diamond stylus ..... \$130  
ZF1+. Grado diamond stylus ..... \$110  
ZF2+. Elliptical diamond stylus ..... \$86  
ZF3E+. Elliptical diamond stylus ..... \$69

#### Flux-Bridger Series

*0.5" or P-mount; elliptical diamond stylus; Recommended tracking force 1-2 g. Output 4 mV at 3.54 cm/sec (45V); sep 20 dB 10-30,000 Hz.*

ZCE+1. .... \$55  
ZTE+1. .... \$25

#### Replacement Styli

*For standard 0.5 and P-mount cartridges: spherical styli for 78-rpm records \$4.00 additional.*

Z2+/S. 2 gold dots ..... \$110  
Z1+/S. 2 yellow dots ..... \$75  
Z+/S. Brown plate ..... \$55  
ZF1+/S. 2 blue dots ..... \$45  
ZF2+/S. 2 white dots ..... \$36  
ZF3E+/S. Tan plate ..... \$33  
ZCE+1/S. 2 silver dots ..... \$30  
ZCE+/S. 2 red dots ..... \$28  
ZTE+/S. 2 red dots ..... \$17  
ZTE+1/S. 2 silver dots ..... \$21

## HEYBROOK BY D'ASCANIO AUDIO

#### The Heybrook Tonearm

Pivoted-tracking magnesium-tube straight tonearm with adjustable vertical tracking angle and fixed headshell. Statically balanced with fixed headshell and locking counterweight. Tracking-force range 0-3 g; overall length 11.62" ..... \$549

## HIGHPHONIC BY ANALOG EXCELLENCE

#### MC-D15 Signature MC Phono Cartridge

High-compliance diamond cantilever; gold-finish alloy body; ultra-line-contact stylus. Output 0.11 mV at 5 cm/sec; FR 10-120,000 Hz  $\pm$  2 dB; sep 35 dB at

1,000 Hz; tracking-force range 0.6-0.9 g; cartridge weight 6.5 g; left/right chs balanced within 0.001 mV output ..... \$1,995

#### MC-D12 MC Phono Cartridge

Diamond cantilever. Output 2.5 mV ..... \$1,250

#### MC-D10 MC Phono Cartridge

Diamond cantilever. Output 0.13 mV (1,000 Hz, 5 cm/sec); FR 10-80,000 Hz; 6.6 g ..... \$1,100

#### MC-A6 Signature MC Phono Cartridge

Titanium/aluminum alloy cantilever with silicon-carbide whiskers; 0.1 x 1.2 mil ultra-line-contact stylus. Output 0.12 mV at 5 cm/sec; FR 10-85,000 Hz  $\pm$  2 dB; sep 34 dB at 1,000 Hz; tracking force 0.8-1.2 g; cartridge weight 6.5 g; left/right ch balanced within 0.001 mV output ..... \$795

#### MC-R5 MC Phono Cartridge

Ruby cantilever; ultra-line-contact stylus; nonresonant body. Output 0.12 mV at 5 cm/sec; FR 10-75 Hz  $\pm$  2 dB; sep 30 dB at 1,000 Hz; tracking force 0.9-1.1 g; cartridge weight 6.5 g; left/right ch balanced within 0.002 mV output ..... \$595

#### MC-A3 MC Phono Cartridge

Ultra-line-contact stylus; aluminum alloy body. Output 0.12 mV at 5 cm/sec; FR 10-70,000 Hz  $\pm$  2 dB; sep 28 dB at 1,000 Hz; tracking force 1-1.2 g; cartridge weight 6.5 g ..... \$350  
MC-A2E. Same as MC-A3 with elliptical stylus; FR 20-50,000 Hz  $\pm$  3 dB ..... \$250

## KISEKI BY SUMIKO

#### Lapis Lazuli MC Cartridge

Made from lapis lazuli, blue stone with small gold particles; diamond cantilever; stylus, armature, magnet as in Agaat cartridges (see below); tested for about 50 hours with music; made on special order, requiring 2-3 months ..... \$5,600

#### Agaat Ruby 4.5 Cartridge

SaCo magnet 3 times as large as ordinary magnets for 35% higher output than Purpleheart or Blue Silver-spot cartridges; 0.3-mm diameter, 4.5-mm long ruby cantilever; line-contact PF stylus 0.14 x 0.6 mil; bottom plate of aluminum/magnesium alloy bonded to body; color varies between white, black, red, green, blue; optimum performance after 15 hours playing. 22x C, humidity 65%. Output around 0.4 mV; ch balance  $\pm$  0.25 dB; sep  $\pm$  30 dB; FR 20-50,000 Hz; VTA 20x; imp 42 ohms; tracking force 1.6-2.2 g (2 g optimum); weight 11.2 g ..... \$1,250

#### Purpleheart Sapphire MC Cartridge

Housing of purpleheart wood; 4.5-mm-long sapphire cantilever with 0.3-mm diameter; same pole pieces and stylus as in Agaat Ruby 4.5 (above); Sendust armature; SaCo magnet. Output 0.4 mV (1,000 Hz, 5 cm/sec); ch balance  $\pm$  0.25 dB; sep  $\pm$  30 dB; FR 20-50,000 Hz; imp 42 ohms, 120  $\mu$ henry; tracking force 2 g optimum; weight 7.5 g ..... \$975

#### Blue-Gold Cartridge

Aluminum body with aluminum alloy and boron overlay cantilever and elliptical stylus ..... \$600

## LINN PRODUCTS

#### Troika Low-Output MC Cartridge

Elliptical stylus; body milled from solid aluminum; 3 mounting screws; flying-lead cartridge tags eliminate 1 connector. FR 20-20,000 Hz  $\pm$  1 dB; sep  $>$  30 dB at 1,000 Hz; tracking force 1.5-1.7 g; ch bal at 1,000 Hz within 1 dB; recommended load 470 ohms; tracking angle 20" ..... \$1,575  
Replacement stylus ..... \$1,050

#### Karma Low-Output MC Cartridge

Elliptical stylus; body milled from solid aluminum. FR 20-20,000 Hz  $\pm$  1 dB; sep 30 dB at 1,000 Hz;

tracking force 1.5-1.7 grams; cartridge weight 5.7 grams; ch bal within 1 dB at 1,000 Hz; tracking angle 20" ..... \$1,125  
Replacement stylus ..... \$750

#### Asaka Moving-Coil Cartridge

Elliptical stylus; body milled from solid aluminum. Output 0.2 mV; FR 10-50,000 Hz  $\pm$  3 dB; sep 27 dB at 1,000 Hz; tracking force 1.5-1.9 grams; cartridge weight 5.7 grams; vertical tracking angle 20" ..... \$725  
Replacement stylus ..... \$483

#### K-9 Moving-Magnet Cartridge

Elliptical stylus; aluminum cantilever. FR 20-20,000 Hz  $\pm$  2 dB; sep 25 dB at 1,000 Hz; tracking force 1.5-1.9 grams; vertical tracking angle 20" ..... \$275  
Replacement stylus ..... \$165

#### K-5 Moving-Magnet Cartridge

Elliptical stylus FR 20-20,000 Hz  $\pm$  2 dB; tracking force 1.7 g. .... \$150  
Replacement stylus ..... \$90

#### Basik Moving-Magnet Cartridge

Spherical stylus. FR 20-20,000 Hz  $\pm$  2 dB; ch sep 25 dB at 1,000 Hz; tracking force 1.8 g; cartridge weight 6 grams. .... \$75

#### Tonearms

##### Ittok I.V-II Tonearm

Tonearm with 11.5" overall length, 9" stylus-pivot distance, damped cueing mechanism. Features radial ball bearings. Effective mass 12 g; total cable capacitance 100 pF; cartridge weight range 3-12 g ... \$965

##### Basik Plus Tonearm

Straight statically balanced tonearm with fixed aluminum headshell and decoupled counterweight. Tracking-force range 0-3 grams calibrated to 0.1 gram; effective mass 11 grams; stylus overhang 18 mm; overall length 284 mm; effective length 230 mm. Includes Basik cartridge. .... \$295

## MADRIGAL

#### Carnegie Two Moving Coil Reference Cartridge

Open circuit output voltage 0.35 mV at 1,000 Hz at 5 cm/sec features imp 20 ohms; FR range 10-50,000 Hz; perpendicular tracking angle 22  $\pm$  2 degrees; cantilever ultra low mass, 0.28 mm diam, solid boron rod; stylus micro min, oriented, square nude diamond 0.12 x 0.12 millimeters; micro-edge line contact 4 x 80 microns; channel balance  $>$  1.0 dB; channel separation  $>$  35 dB at 1,000 Hz; machined aluminum alloy ..... \$850

## MICRO SEIKI BY ANALOG EXCELLENCE

#### C-2 High-Output MC Cartridge

Beryllium pipe cantilever; line-contact stylus. Output 2.5 mV at 5 cm/sec; FR 10-30,000 Hz; tracking force 1.8 g  $\pm$  g; cartridge weight 9.5 g; internal imp 120 ohms; compliance 8 x 10 cm/dyne ..... \$395

## MISSION ELECTRONICS

#### The Rose Cartridge

MC cartridge made from solid rosewood wired internally with ultra-fine linear crystal. Line-contact stylus; annealed boron cantilever; output 0.2 mV at 5 cm/sec; FR 20-20,000 Hz  $\pm$  0.5 dB; sep 25 dB at 1,000 Hz; max tracking force 2 g; cartridge weight 6.2 g \$599

#### Solitaire MM Phono Cartridge

Output 3 mV at 5 cm/sec; FR 20-20,000 Hz  $\pm$  2 dB; sep 28 dB at 1,000 Hz; tracking force 1.8-2 g; cartridge weight 5.7 g. .... \$99

#### 773MM MM Phono Cartridge

Cartridge with 0.3 x 0.8 mil synthetic diamond stylus. output 4 mV at 1,000 Hz, 3 mV 50 mm/sec at 1,000 Hz; sep 28 dB at 1,000 Hz; tracking force 1.5-2.5 g \$79



# CARTRIDGES & TONEARMS

## Tonearm

### The Mechanic Tonearm

Tonearm cut from single billet of aluminum with minimum number of separate pieces; direct-coupled rigid two-plane symmetric and concentric bearings in ceramic cups; fixed 23x 45° offset angle (adjustable); effective length 228 mm; pivot-spindle 210 mm; overhang 18 mm; effective mass 16 g. . . . \$2,000

## MONSTER CABLE

### Alpha Genesis 1000 MC Cartridge

Low output; diamond-sputtered cantilever; phase-



corrected coils. . . . \$800  
500. . . . \$650

## MUSIC HALL

### Bullet Cartridge

Highly modified Audio-Technica cartridge with elliptical stylus. . . . \$125

## NAGAOKA

### MP 50s Phono Cartridge

MM phono cartridge with impact aluminum frame. Nude super elliptical stylus, sapphire pipe cantilever. FR 20-28,000 Hz; output voltage 2.5 mV (5cm/sec) @ 1,000 Hz; ch sep > 27 dB @ 1,000 Hz; stylus pressure 1.1-1.5 g; cartridge weight 9 g. . . . \$330  
N50 MP. Replacement styli . . . . \$200

### MP 30 Phono Cartridge

MM phono cartridge with impact aluminum frame. 0.4 x 0.7 mil elliptical stylus; Boron cantilever. FR 20-25,000 Hz; output voltage 3 mV (5 cm/sec) @ 1,000 Hz; ch sep > 25 dB @ 1,000 Hz; stylus pressure 1.3-1.8 g; cartridge weight 9 g. . . . \$220  
N30 MP. Replacement styli . . . . \$125

### MP 11 Boron Phono Cartridge

Magnetodynamic phono cartridge with UT58 Boron taper pipe cantilever. 0.4 x 0.7 mil elliptical block diamond stylus. FR 20-23,000 Hz; output voltage 4.0 mV (5 cm/sec) @ 1,000 Hz; ch sep > 25 dB @ 1,000 Hz; stylus pressure 1.8-2.3 g; cartridge weight 6.8 g. . . . \$150  
N11 MP Boron. Replacement styli . . . . \$85

MP 11 Gold. Similar to above with A5052 duralmin, tin ion plated cantilever. Stylus pressure 1.7-2.3 g; cartridge weight 7.9 g. . . . \$110  
N11MP Gold. Replacement styli . . . . \$65

### MP 11 Phono Cartridge

Phono cartridge with samarium cobalt magnet. 0.3 x 0.7 mil elliptical diamond stylus. FR 20-20,000 Hz; output voltage 5 mV (5 cm/sec) @ 1,000 Hz; ch sep > 23 dB @ 1,000 Hz; stylus pressure 1.8-2.3 g; cartridge weight 6.8 g. . . . \$80  
N11 MP. Replacement styli . . . . \$55

### MP 10 Phono Cartridge

MM phono cartridge with A5052 duralmin cantilever. 0.5 mil conical diamond stylus; FR 20-20,000 Hz; output voltage 5 mV (5 cm/sec) @ 1,000 Hz; ch sep > 22 dB; stylus pressure 2.0-2.5 g; cartridge weight 6.8 g. . . . \$60  
N10 MP. Replacement styli . . . . \$35

MP03. "Bulk Budget" cartridge, elliptical stylus. \$40  
NNC-P. Same as above P-mount . . . . \$40

## ORTOFON

### Orthophase Moving-Coil Phono Cartridges

MC3000. MC cartridge with ultra low mass (0.25 mg) moving system. Features propriety Ortofon Fg Replacant 100 stylus mounted on a rigid aluminum conical cantilever; carbon fiber armature wound with pure silver coils and a neodymium permanent magnet. Aluminum oxide, ceramic cartridge housing with Moh scale hardness factor of 9. Output voltage at 1,000 Hz 5cm/sec 0.1 mV; ch sep. at 1,000 Hz > 25dB; FR 5-90,000 Hz +4 -1dB; tracking ability at 315 Hz at recommended tracking force > 80 µm; weight 9.5 g. . . . \$1,000

MC30 Super. MC cartridge with extruded aluminum body, and carbon fiber support system, and silver coil windings. Stylus Fg type 1 with stylus tip radius r/R 4.5/80 µm. Output 0.25 mV at 1000 cm/sec; FR 15-45,000 Hz; sep > 25 dB at 1,000 Hz; tracking ability at recommended tracking force 90 µm; weight 9 g. . . . \$450

MC20 Super. MC cartridge with extruded aluminum body. Features Van den Hul stylus; carbon-fiber support system. Output 0.25 mV at 1,000 cm/sec; FR 15-40,000 Hz; sep > 25 dB at 1,000 Hz; tracking-force range 1.5-1.9 g; cartridge weight 9 g. . . . \$300  
MC10 Super. MC stereo phono cartridge with elliptical nude stylus. Vertical tracking angle 20x; output 0.25 mV at 1 kHz, 5 cm/sec; FR 20-20,000 Hz ± 1 dB; tracking force 1.5 g; FIM distortion < 1%; 7 g. . . \$150

### High-Output Moving-Coil Cartridges

X5MC. High output MC cartridge for direct connection to MM phono input. Features Fg type 2 nude diamond stylus. High output/low moving mass achieved through focused magnetic field and only 230 coil windings per pole piece. Output 2 mV at 5 cm/sec. FR 15-40kHz +4 -1.5 dB; sep > 25 dB at 1,000 Hz, weight 4.1 g. . . . \$300

X3-MC. High-output MC cartridge connects directly to MM-phono input. Features focused magnetic field for high output with low-moving mass (230 coil windings per pole piece) and nude fine-line diamond. Output 2 mV at 5 cm/sec; FR 20-40,000 Hz +4, -1.5 dB; sep > 25 dB at 1,000 Hz; tracking-force range 1.8-2.2 g; cartridge weight 4.1 g; vertical tracking angle 23x. . . . \$200  
X3-MCP. P-mount version of X3-MC. . . . \$200

X1-MC. High-output MC cartridge with low-moving mass, aluminum cantilever, and elliptical diamond. Output 2 mV at 5 cm/sec; FR 20-30,000 Hz +4, -1.5 dB; sep > 22 dB at 1,000 Hz; tracking-force range 1.75-2.2 g; cartridge weight 4.1 g; vertical tracking angle 23x. . . . \$100  
X1-MCP. P-mount version of X1-MC. . . . \$100

### Diamond Collection 500 Series

540. MM cartridge utilizing proprietary slotted pole pin construction for improved high frequency response. Patented locking stylus guard to secure stylus to cartridge body avoiding unwanted resonances. Square-shank nude diamond Fg type 1. Output at 3mV at 1 kHz. FR 20-28kHz +4, -1 dB. . . . 300  
530. Similar to 540 except uses square-shank nude fine-line diamond. FR 20-25,000 Hz. . . . \$225  
520. Similar to 530 except uses a square-shank nude elliptical diamond. sep 23dB; FR 20-23,000 Hz \$150

### Optimum-Mass Cartridges

OM-40 Gold. Variable-magnet-shunt cartridge with

individually calibrated Van den Hul stylus. Output 3.5 mV at 1,000 cm/sec; FR 20-30,000 Hz; sep 25-1,000 dB at 1,000 Hz; tracking-force range 1-1.5 g; cartridge weight 5 or 2.5 g. . . . \$300

OM-30. Low-mass variable-magnetic-shunt phono cartridge. Features cartridge body of neryl plastic for rigidity and low weight; copper coils; mu-metal container for electrical system; nude fine-line diamond stylus; tracking force 1.25 g; FR 20-27,000 Hz; output voltage at 1,000 Hz (5 cm/sec) 3.5 mV; wt 2.5 grams; ch sep at 1,000 Hz > 25 dB. . . . \$225  
OMP-30. P-Mount version of OM-30 cartridge; 6 gms. . . . \$225

OM-20. Similar to OM-30 except for a more rectangular nude elliptical diamond stylus; designed for medium-weight tonearms; FR 20-22,000 Hz; output voltage at 1,000 Hz (5cm/sec) 4 mV. . . . \$175  
OMP-20. P-Mount version of OM-20 cartridge; 6 gm. . . . \$175

OM-10. Similar to OM-20 except for a heavier stylus tip; for use with heavier tonearms; tracking force 1.5 gram; FR 20-20,000 Hz; output voltage at 1,000 Hz (5 cm/sec) 4 mV; ch sep at 1,000 Hz 22 dB. . . . \$95  
OMP-10. P-Mount version of OM-10 cartridge; 6 gm. . . . \$95

OM-5E. Similar to OM-10 except for heavier stylus tip; for use with heavier tonearms. Tracking force 1-5 g; FR 20-20,000 Hz. . . . \$65  
OMP-5E. P-Mount version of OM-5E. . . . \$65

### Pro Series

Concorde Pro Kit. MM cartridge kit with one Concorde integrated pro body and two spherical pro styli. FR 20-20,000 Hz; output 5 mV at 1,000 Hz 5 cm/sec; sep/balance at 1kHz 20/2dB; weight 16 g. . . . \$110

OM Pro-Kit. MM-cartridge kit with one OM Pro body and 2 pro styli. Features spherical stylus and aluminum cantilever. Output 5 mV at 5 cm/sec; FR 20-18,000 Hz ± 3 dB; sep 20 dB at 1,000 Hz; tracking-force range 3-5 g; cartridge weight 5 g. . . . \$95  
Stylus Pro. Replacement stylus for OM Pro Kit \$30

### 300 Series

320U. Universal P-mount with 0.5" mount adaptor, moving magnet generating principal. Square shank nude elliptical diamond. FR 20-22,000 Hz; output 5 mV at 5 cm/sec; sep 24 dB. . . . \$129

310U. Similar to 320U except has highly-polished elliptical diamond stylus. FR 20-20,000 Hz. . . \$89  
305E. Similar to 310U except has an elliptical diamond stylus. sep 23 dB. . . . \$60

### Universal Series

TM20U. Variable-magnetic-shunt cartridge with square shank nude elliptical diamond and universal mount. Output 4 mV at 1 kHz, 5 cm/sec; FR 20-25,000 Hz; bal/sep. 1.5/25 dB; weight 6g. . . . \$129

TM14U. Stereo cartridge with elliptical diamond stylus and universal mount. FR 20-20,000 Hz; output 4.5 mV, equivalent stylus tip mass 0.5 mg; recommended load 47k ohms/200 pF; tracking force 1.25 g. . . . \$89

TM7U. Cartridge with elliptical diamond stylus and universal mount. FR 20-20,000 Hz; output 5 mV at 1 kHz, 5 cm/sec. . . . \$60

FF15XE MkII. Variable Magnetic Shunt cartridge with 8-µm elliptical diamond stylus tip. Output 3.2 mV at 1 kHz, 1 cm/sec; FR 20-20,000 Hz; compliance 20 µm/mN (horizontal, vertical); tracking-force range 1.5-3 g; 5 grams . . . . \$50

## PARASOUND

### PCe77 P-Mount Phono Cartridge

Induced-magnet cartridge with aligned elliptical stylus. Output 4 mV at 3.54 cm/sec; FR 20-26,000 Hz ± 0.8 dB. . . . \$80

### PCs55 Phono Cartridge

Standard 0.5"-mount induced-magnet cartridge with low mass, medium compliance, and hinged stylus

# CARTRIDGES & TONEARMS

guard. Thin-walled aluminum cantilever, 0.6-mil unradial stylus. Output 5 mV at 3.54 cm/sec; FR 20-20,000 Hz  $\pm$  1 dB; sep 28 dB at 1,000 Hz; tracking force range 1.5-2 g; cartridge weight 3.7 g. . . . \$60

## IM1700 P-Mount Phono Cartridge

Induced-magnet cartridge with spherical stylus and aluminum cantilever. Output 5 mV at 3.54 cm/sec; FR 20-20,000 Hz  $\pm$  1 dB; cartridge weight 5 g. . . . \$60

## PICKERING

### XLZ/7500S Phono Cartridge

Cartridge with nude Stereohedron diamond stylus tip. Sens 0.06 mV/cm/sec  $\pm$  2 dB; FR 10-50,000 Hz; sep 35 dB; tracking force 0.5-1.5 g; includes Dustamatic brush; replacement stylus D7500. . . . \$275

### XSV/5000 Phono Cartridge

Cartridge with nude Stereohedron diamond stylus tip. Output 3.8 mV; FR 10-50,000 Hz; tracking force 0.5-1.5 g; sep 35 dB; includes Dustamatic brush. Replacement stylus D5000. . . . \$275  
XSV/4000. Similar to XSV/5000 except FR 10-36,000 Hz; tracking force .75-1.5 g; replacement stylus D5000. . . . \$200

### XV-15/1200 Phono Cartridge

Output 4.4 mV at 5.5 cm/sec; FR 10-30,000 Hz; 0.2 x 0.7-mil elliptical stylus; tracking force 0.75-1.25 g; sep 35 dB; features Dustamatic brush; replacement stylus D1200. . . . \$170

### XV-15/757S Cartridge

Stereohedron stylus, output 4.4 mV; tracking force .75-1.5 g; FR 10-25,000 Hz; replacement stylus D757S. . . . \$140

### XSV/3000 Phono Cartridge

Output 5 mV at 5.5 cm/sec; FR 10-30,000 Hz; Stereohedron stylus tip; tracking force 0.75-1.5 g; sep 35 dB; features Dustamatic brush; replacement stylus D3000. . . . \$130

### XV-15/625E Phono Cartridge

Output 4.4 mV at 5.5 cm/sec; FR 10-25,000 Hz; 0.3 x 0.7-mil elliptical stylus; tracking force 0.75-1.5 g; sep 35 dB; features Dustamatic brush; replacement stylus. . . . \$110

### XV-15/625DJ Phono Cartridge

Designed for disco use. Output 0.8 mV/cm/sec; sep 30 dB; tracking force 1-4 g; 0.3 x 0.7-mil elliptical stylus. . . . \$82

### XV-15/400E Phono Cartridge

Output 5.5 mV at 5.5 cm/sec; FR 10-25,000 Hz; 0.4 x 0.7-mil elliptical stylus; tracking force .75-1.25 g; sep 35 dB; features Dustamatic brush; replacement stylus D400. . . . \$95

### P-Mount Cartridges

TLZ/7500S. High-performance low-imp cartridge with 4-coil, high-energy samarium cobalt magnet. Nude stereohedron stylus; output 0.06 mV/cm/sec; tracking force .75-1.5 g; FR 10-50,000 Hz. . . . \$275  
XSP/4004. Features nude stereohedron stylus with output 3.8 mV; tracking .75-1.5 g; FR 10-36,000 Hz. . . . \$200  
XSP/3003. Stereohedron series p-Mount cartridge with output 3.3 mV. FR 10-30,000 Hz; tracking force .75-1.5 g,  $\pm$  .25 g. . . . \$130  
TL-4S. 4-coil induced magnet. Stereohedron stylus, output 4.4 mV, FR 10-25,000 Hz. . . . \$170  
TL-3S. Stereohedron stylus. Output 4.4 mV; tracking .75-1.5 g; FR 10-25,000 Hz. . . . \$140  
TL-2S. Stereohedron stylus. Output 4.4 mV; tracking .75-1.5 g; FR 10-22,000 Hz. . . . \$110  
TL-2E. Elliptical stylus. Output 4.4 mV; tracking .75-1.5 g; FR 10-22,000 Hz. . . . \$95  
TL-1. Std P-Mount, 2-coil moving magnet. Tracking .75-1.5 g. Elliptical stylus, FR 10-20,000 Hz, output 4.4 mV. . . . \$37

TL625DJ. P-Mount cartridge. FR 20-20,000 Hz, output 4.4 mV, tracking force 3.5-4 g. Replacement stylus DJL. . . . \$82  
TLE Type 2. Elliptical stylus. Output 3.0 mV; tracking force .75-1.5 g; FR 10-22,000 Hz. . . . \$60  
TLE. Elliptical stylus. Output 4.4 mV; tracking force .75-1.5 g; FR 10-20,000 Hz. . . . \$55

V-15/Series II-S. Stereohedron stylus, FR 10-25,000 Hz, output 3.5 mV. Replacement stylus DSR-S \$88  
V-15/Series II-EE. Elliptical stylus, FR 10-20,000 Hz, output 3.5 mV. Replacement stylus DSR-EE. . . \$55  
V-15/Series II-E. Elliptical stylus, FR 10-18,000 Hz, output 3.5 mV. Replacement stylus DSR-E. . . \$50  
V15-DJ Cartridge  
Spherical Cartridge (standard .5" mount) Nominal Output 4.4 mV; Tracking force 2-5 g; weight 5.5 g \$43

## PIONEER

### PC-295T Induced-Magnet Cartridge

T4P P-mount cartridge. FR 10-33,000 Hz; output voltage 2.5 mV; tracking force 1.25 g. . . . \$80  
PN-295T. Replacement stylus for PC-295T. . . \$35

### PC-300T Induced-Magnet Cartridge

T4P P-mount cartridge. FR 10-33,000 Hz; output voltage 2.5 mV; tracking force 1.25 g. . . . \$80  
PN-300T. Replacement stylus for PC-300T. . . \$30

### PC-290T Induced-Magnet Cartridge

T4P P-mount cartridge. FR 10-33,000 Hz; output voltage 2.5 mV; tracking force 1.25 g. . . . \$70  
PN-290T. Replacement stylus for PC-290T. . . \$30

### PC-5MC Moving-Coil Cartridge

High-output MC cartridge. FR 10-32,000 Hz; output voltage 2 mV; tracking force 1.7-2.3 g. . . . \$54  
PN-5MC. Replacement stylus for PC-5MC. . . \$32

### PC-250T Moving-Magnet Cartridge

T4P P-mount cartridge. FR 10-30,000 Hz; output voltage 2.5 mV; tracking force 1-1.5 g. . . . \$50  
PN-250T. Replacement stylus for PC-250T. . . \$20

## PREMIER BY SUMIKO

### FT-3 Straight Tonearm

Statically balanced tonearm with anti-resonance foam-stuffed tube. Features decoupled counterweight; cone and ball race bearings; LC-OFC litz wiring; VTA adjustable during play; termination box with LC-OFC flexible link and gold-plated RCA jacks. Fixed-azimuth adjustable magnesium headshell. Tracking force 0-3 g calibrated to 0.1 g; effective mass 10 g; offset angle 23 $\times$ ; stylus overhang 17.3 mm; overall length 305 mm; effective length 239 mm; tracking error 0.123 $\times$ /cm; 20 oz. . . . \$475  
FT-3K. . . . \$395

### MMT Tonearm

Highly rigid medium-mass tonearm with double gimbal bearings; bearing design allows free movement without bearing play or chatter. Features decoupled counterweight; optional damping; removable headshell with azimuth adjustability and LC-OFC cartridge leads. . . . \$290

## REALISTIC

### V15 Realistic/Shure V15 Type RS

5-30,000 Hz frequency response; precision tracking at 1.25-1.75 g; dynamic stabilizer; viscous damping for precise tracking of warped record. . . . \$80

### RXT6 Realistic/Shure Cartridge

Cartridge with telescope stylus features dynamic stabilizer; tracking force 1.25-1.75 g; P-mount adaptor and installation kit. . . . \$50

### RXP3 Realistic/Shure Cartridge

P-mount; elliptical diamond stylus; tracking force 1.25 g. . . . \$30

### R47XT Realistic/Shure Cartridge

Elliptical diamond stylus (10 x 18 microns); tracking force 1.75-2.25 g; sep 20 dB. . . . \$27

### RS500DJ Realistic/Stanton Cartridge

Pro Series cartridge for radio stations and dance clubs (back-cues and scratch mixes); tracking force 2.5 g \$30  
R500DJ. Replacement stylus. . . . \$20

### RX1500 Dual-Magnet Plug-In Cartridge

Dual-magnet plug-in cartridge features diamond elliptical stylus; tracking force 1-1.5 g. . . . \$30

### R25XT Realistic/Shure Cartridge

Elliptical diamond stylus (10 x 18 microns); tracking force 2.5-3.5 g. . . . \$20

### Styli

RS3P. Diamond stylus for RXP3 and Shure M92E, M99E, M104E. . . . \$28  
R8X. Diamond stylus for R1000, Shure M90, M75, T-2 series. . . . \$25  
R5X. Diamond stylus for R47, Shure M70 and M75 series. . . . \$20  
RS50E. Diamond elliptical stylus for ADC, QLM34 MK III, P32, K5E cartridges. . . . \$22  
RT1500. Diamond elliptical stylus for RX1500, Audio-Technica AT-102P, 102, 112, 122EP cartridges; tracking force 1-1.5 g. . . . \$20  
R3X. Diamond stylus for R25, Shure M71 and M75ECS series. . . . \$15  
42-2772. Diamond conical stylus. . . . \$15  
DAT-2. Diamond conical stylus for Pickering V15/AT-1/2, KLH, similar cartridges. . . . \$12  
ATN-771E. Diamond elliptical stylus for Audio-Technica AT-70/71/71E. . . . \$11  
RSK8C. Diamond conical stylus for QLM30 and ADC K series cartridges. . . . \$11  
PS-203. Diamond stylus for Clarinette 14/15/16 and 13-1117/1118. . . . \$6

## REVOLVER BY MUSIC HALL

### Revolver Super Tonearm

Similar geometry to Revolver Straight Tonearm but incorporates larger zero free-play bearings, alloy arm tube. . . . \$450

### Revolver Straight Tonearm

Statically balanced pivoted direct-coupled tonearm with zero free-play-adjusted precision ball races; decoupled counterweight; fixed aluminum headshell. Tracking force 2-10 g calibrated to 0.1 g; effective mass 7 g; offset angle 23.5 $\times$ ; stylus overhang 18 mm; overall length 285 mm; effective length 228 mm; 393 g. . . . \$200

## SAEC BY ANALOG EXCELLENCE

### C-1 MC Phono Cartridge

Medium output; beryllium cantilever; line-contact stylus; nonresonant metal-alloy body. Output 0.4 mV at 5 cm/sec; FR 10-50,000 Hz  $\pm$  2 dB; sep 30 dB at 1,000 Hz; tracking force 1.4-1.6 g; cartridge weight 9 g; internal imp 40 ohms. . . . \$695

### C-2 High-Output MC Cartridge

Beryllium pipe cantilever; line-contact stylus. Output 2.5 mV at 5 cm/sec; FR 10-30,000 Hz; tracking force 1.8 g  $\pm$  0.25 g; cartridge weight 9.5 g. . . . \$395

### C-102 MC Phono Cartridge

Medium-output; aluminum cantilever; nude diamond stylus. Output 0.6 mV at 5 cm/sec; FR 20-30,000 Hz  $\pm$  2 dB; sep 25 dB at 1,000 Hz; tracking force 1.6-1.8 g; cartridge weight 7 g; internal imp 40 ohms. . . . \$250

### Tonearms

### WE-8000S/T Straight Tonearm

Statically balanced tonearm with offset angle built into ceramic headshell. Features titanium/aluminum



# CARTRIDGES & TONEARMS

alloy pipe with 10° taper; lateral balance control; double-knife edge bearings; decoupled counterweight; For medium to high compliance cartridges. Ceramic headshell, beryllium connector; tracking force 0-3 g calibrated to 0.1 g; offset angle 18°; stylus overhang 13mm; overall length 400mm; effective length 293mm; tracking error <1° ..... \$1,500

## WE-506/30 J-Shaped Tonearm

J-shaped tonearm features special alloy pipe. Statically balanced; decoupled counterweight; universal design; ceramic headshell; tracking force 0-4.0 g calibrated to 0.1 g; offset angle to 16°; stylus overhang 9mm; overall length 392mm; effective length 286mm; tracking error <1.5° ..... \$1,500

## WE-407/23 J-Shaped Tonearm

Statically balanced tonearm with patented forged steel double-knife-edge bearing. Each arm individually balanced in all 3 planes (horizontal, vertical, front/back). Headshell sintered and multi-crystallized aluminum oxide, ceramic; tracking force 0-4 g calibrated to 0.1 g; offset angle 18°; stylus overhang 12mm; overall length 311mm; effective length 221mm ..... \$795

## WE-317S J-Shaped Tonearm

Statically balanced tonearm with double-edge bearings. Headshell of aluminum/titanium; tracking force 0-3 g calibrated to 0.1 g; offset angle 20°; stylus overhang 13mm; overall length 331.5mm; effective length 235mm; tracking error <1.5° ..... \$595

## WE-308/N J-Shaped Tonearm

Statically balanced tonearm with double-knife-edge bearings and stainless steel pipe. Universal aluminum/titanium alloy headshell; tracking force 0-3 g calibrated to 0.1 g; offset angle 12.5°; stylus overhang 5mm; overall length 329mm; effective length 235mm; tracking error <1.5° ..... \$350

## SHURE

**ULTRA 500.** All of V15 type V-MR (see below) plus other features. Total eff mass 0.165 mg; dynamic vertical stylus compliance at 10 Hz 20 µm/dyne; output at 1,000 Hz; 5 cm/sec peak velocity; 3.2 mV ..... \$400

**ULTRA 400.** Total eff mass 0.190 mg; dynamic vertical stylus compliance at 10 Hz 14 µm/dyne; output at 1,000 Hz; 5 cm/sec peak velocity; 4.0 mV ..... \$250

**ULTRA 300.** Total eff mass 0.165 mg; dynamic vertical stylus compliance at 10 Hz 11 µm/dyne; output at 1,000 Hz; 5 cm/sec peak velocity; 3.2 mV ..... \$160

## V15 Type V-MR Phono Cartridge

MM cartridge with improved low-distortion Micro-Ridge stylus tip and Microwall beryllium stylus shank for increased trackability. Features viscous-damped Dynamic Stabilizer and Side-Guard stylus protection system; includes Duo-Point Alignment Gauge and computer performance printout. Output 3.2 mV at 1,000 Hz (5 cm/sec peak velocity); FR 10-28,000 Hz; sep 25 dB or greater at 1,000 Hz; tracking force 1.0 g; replacement stylus VN5MR ..... \$297

## V15 Type V-B Phono Cartridge

MM cartridge with exclusive Hyperelliptical tip, Microwall beryllium stylus shank, Dynamic Stabilizer and Side-Guard stylus protection system. Includes individual computer performance printout. Output 3.2 mV at 1 kHz (5 cm/sec peak velocity); FR 10-28,000 Hz; sep 25 dB or greater at 1,000 Hz; tracking force 1.0 g; replacement stylus VN5HE; VN5MR upgrade ..... \$237

## V15 Type V-P Phono Cartridge

Specifically designed for ultimate performance in P-Mount tonearms. Features Hyperelliptical tip; Microwall beryllium stylus shank; computer performance printout. Same specs as V15 type V-B. Replacement stylus VN5P ..... \$221

## ML140HE Phono Cartridge

Slim-line high-efficiency cartridge body provides an extremely flat frequency response from 20-22,000 Hz. Superb trackability with Microwall beryllium shank and accurate tracing with Hyperelliptical tip. Slim Dynamic Stabilizer combats record warp problems while destaticizing and cleaning the record, and Side-Guard helps protect stylus from accidental damage. Includes overhang gauge. Replacement stylus N140HE ..... \$205

## VST V Phono Cartridge

MM cartridge. Features Microwall/Be beryllium stylus shank; hyperelliptical stylus tip; telescoped stylus shank; dynamic stabilizer; side-guard stylus protection system. FR 10-35,000 Hz; trackability at 10,000 Hz 72 cm/sec; ch sep at 1,000 Hz 25 dB ..... \$170

## ML120HE Phono Cartridge

Slim-line high-efficiency cartridge body provides flat FR from 20-22,000 Hz. Low-mass, high-stiffness



telescoped stylus shank. Hyperelliptical tip, slim Dynamic Stabilizer and Side-Guard stylus protection system. Output 4.0 mV at 1 kHz (5 cm/sec peak velocity); sep 25 dB or greater at 1 kHz; tracking force 1.0 g. Replacement stylus N120HE ..... \$167

## M111HE Phono Cartridge

Features telescoped stylus shank, Hyperelliptical tip, Dynamic Stabilizer, Side-Guard stylus protection system; rigid, low-mass converter allows mounting to either conventional 0.5°-mount tonearms or most P-Mount tonearms; output 5.0 mV at 1 kHz (5 cm/sec peak velocity); FR 20-20,000 Hz; sep 25 dB at 1 kHz; tracking force 1.25 g. Replacement stylus N111HE ..... \$146

## M110HE Phono Cartridge

Features telescoped stylus shank, Hyperelliptical tip, and Side-Guard stylus protection system; rigid, low-mass converter allows mounting to either conventional 0.5°-mount tonearms or all P-Mount tonearms; same specs as M111HE. Replacement stylus N110HE ..... \$119

## M105E Phono Cartridge

Features 0.2 x 0.7 mil elliptical tip and thin-walled, reinforced aluminum shank. Features Destaticizer Brush to clean dust from record grooves and remove static electricity from record surface. Side-Guard stylus protection system helps prevent accidental stylus damage. Fits most P-Mount tonearms and includes rigid 0.5°-mount converter. Output 5.0 mV at 1 kHz (5 cm/sec peak velocity); FR 20-20,000 Hz; sep 25 dB at 1 kHz; tracking force 1.25 g. Replacement stylus N105E ..... \$108

## DC60 Phono Cartridge

Features internal cue guard to stabilize stylus shank; wraparound stylus grip; comes with 2 replacement styli; elliptical stylus, 1/2-inch mount ..... \$106

**DC50.** As above, P-mount ..... \$106

## VST III Phono Cartridge

MM cartridge. Features Microwall/Be beryllium stylus shank; hyperelliptical stylus tip; telescoped stylus shank; dynamic stabilizer; side-guard stylus protec-

tion system. FR 10-20,000 Hz; trackability at 10,000 Hz 56 cm/sec; ch sep at 1,000 Hz 25 dB ..... \$100

**VST III-P.** As above, P-mount ..... \$90

## M104E Phono Cartridge

Cartridge with accurate-tracing 0.2 x 0.7 mil elliptical stylus tip features tubular heat-treated aluminum stylus shank. P-Mount compatible and includes rigid 0.5°-mount converter. Output 5.0 mV at 1 kHz (5 cm/sec peak velocity); FR 20-20,000 Hz; sep 25 dB at 1 kHz; tracking force 1.25 g. Replacement stylus N104E ..... \$76

## DC40 Phono Cartridge

Features internal cue guard to stabilize stylus shank; wraparound stylus grip; comes with 2 replacement styli; elliptical stylus, 1/2-inch mount. Tracking force 2.5-3.5 grams; FR 20-20,000 Hz; output voltage 5 mV; ch sep 20 dB at 1,000 Hz ..... \$76

## SC39EJ Phono Cartridge

Features biradial stylus; side-guard stylus protection system; output voltage 4 mV; FR 20-20,000 Hz; ch bal within 2 dB; ch sep 20 dB at 1,000 Hz; tracking force 1.5-3 dB; beige stylus grip ..... \$76

**SC39B.** As above, spherical stylus; green stylus grip ..... \$68

## M55E Phono Cartridge

MM cartridge. Output 6.2 mV at 5 cm/sec peak velocity (1 kHz); FR 20-20,000 Hz; tracking force 0.75-2 g; sep 20 dB (1 kHz); 0.2 x 0.7-mil biradial (elliptical) stylus, replacement stylus N55E ..... \$71

## M44E Phono Cartridge

MM cartridge. Output 9.5 mV at 5 cm/sec peak velocity (1 kHz); FR 20-20,000 Hz; tracking force 1.75-4 g; sep 20 dB (1 kHz); 0.4 x 0.7-mil biradial (elliptical) stylus; replacement stylus N44E ..... \$62

## M44G Phono Cartridge

Features flip-down stylus-guard; 15-micron spherical stylus tip. Tracking force 3/4-1 1/4 grams; FR 20-20,000 Hz; ch bal within 2 dB; ch sep at 1,000 Hz 20 dB; output 6.2 mV ..... \$57

## M44C Phono Cartridge

Features flip-down stylus-guard; 15-micron spherical stylus tip. Tracking force 3-5 grams; FR 20-20,000 Hz; ch bal within 2 dB; ch sep at 1,000 Hz 20 dB; output 6.2 mV ..... \$55

## M447 Phono Cartridge

Features flip-down stylus-guard; 15-micron spherical stylus tip. Tracking force 1 1/2-3 grams; FR 20-20,000 Hz; ch bal within 2 dB; ch sep at 1,000 Hz 20 dB; output 6.2 mV ..... \$55

## M199E Phono Cartridge

Heat-treated tubular aluminum stylus shank and 0.2 x 0.7 mil elliptical stylus tip. P-Mount compatible and fits conventional 0.5°-mount tonearms with rigid converter. Output 5.0 mV at 1 kHz (5 cm/sec peak velocity); FR 20-20,000 Hz; sep 20 dB at 1 kHz; tracking force 1.25 g. Replacement stylus N99E \$54

## SC35C Phono Cartridge

Features spherical stylus; light blue stylus grip; output voltage 5 mV; FR 20-20,000 Hz; ch bal within 2 dB; ch sep 20 dB at 1,000 Hz; tracking force 4-5 grams \$49

## M92E Phono Cartridge

Phono cartridge with heat-treated tubular aluminum stylus shank and 0.4 x 0.7 mil elliptical stylus tip features P-Mount compatible and fits conventional 0.5°-mount tonearms with rigid converter. Output 5.0 mV at 1 kHz (5 cm/sec peak velocity); FR 20-18,000 Hz ..... \$33

## SIGNET

### MK440ML MC Cartridge

Dual moving MicroCoil design; separation 18 dB

# CARTRIDGES & TONEARMS

at 10,000 Hz; tracking-force range 1-1.6 g; cartridge weight 7 g ..... \$600

## TK10ml Series II MM Cartridge

MM cartridge features full toroidal coil wound with LC-OFC wire for generating system; Microline nude stylus mounted on boron cantilever. Reduced compliance on stylus assembly for compatibility with wide range of tonearms. Output 2 mV at 5 cm/s; FR 20-20,000 Hz  $\pm$  3 dB; sep 35 dB at 1,000 Hz; tracking-force range 1-1.5 g; cartridge weight 7.5 g; scanning radius 2.5 micrometers; vertical tracking angle 20 degrees ..... \$450  
TKN10ml Series II. Replacement stylus for TK10ml Series II cartridge ..... \$250

## MK220E MC Cartridge

Dual moving MicroCoil design with non-user replaceable stylus. Features 0.2 x 0.7 mil nude square-shank miniature elliptical diamond. Output 0.4 mV at 5 cm/sec; FR 5-50,000 Hz; sep 25 dB at 1,000 Hz, 18 dB at 10,000 Hz; cartridge weight 4.8 g ..... \$400

## MR5.0ml MM Cartridge

MM cartridge features uncore-coil generating system with LC-OFC wire and microline stylus on gold-plated beryllium cantilever. Output 5 mV at 5 cm/sec; FR 5-37,000 Hz; sep 33 dB at 1,000 Hz, 25 dB tracking-force range 0.8-1.8 g; cartridge weight 6 g ..... \$350

## MR5.0lc MM Cartridge

Uncore-coil generating system with LC-OFC wire and square-shank nude stylus on beryllium cantilever. Output 50 mV; FR 5-35,000 Hz; sep 33 dB at 1,000 Hz, 23 dB at 10,000 Hz; tracking-force range 0.8-1.6 g; cartridge weight 6 g ..... \$275

## MR5.0me MM Cartridge

Uncore-coil generating system with LC-OFC wire and 0.2 x 0.7 mil square-shank nude stylus. Output 5 mV at 5 cm/sec; FR 5-30,000 Hz; sep 30 dB at 1,000 Hz, 20 dB at 10,000 Hz; tracking-force range 0.8-1.6 g; cartridge weight 6 g ..... \$225

## MK120He MC Cartridge

High-output design features user-replaceable stylus with 0.2 x 0.7 mil nude square-shank diamond. Output 2 mV at 5 cm/sec; FR 15-30,000 Hz; sep 29 dB at 1,000 Hz, 20 dB at 10,000 Hz; tracking-force range 1.2-1.8 g; cartridge weight 5 g ..... \$200

## MR5.0e MM Cartridge

Uncore-coil generating system with LC-OFC wire and 0.3 x 0.7 mil nude stylus. Output 5 mV at 5 cm/sec; FR 10-30,000 Hz; sep 29 dB at 1,000 Hz, 19 dB at 10,000 Hz; tracking-force range 0.9-1.9 g; cartridge weight 6 g ..... \$195

## MK55e MC Cartridge

Low mass; dual moving MicroCoil design; user-replaceable stylus with 0.3 x 0.7 mil nude mounted diamond. Output 0.5 mV at 5 cm/sec; FR 20-28,000 Hz; sep 28 dB at 1,000 Hz, 18 dB at 10,000 Hz; tracking-force range 1.2-1.8 g; cartridge weight 4.2 g ..... \$150

## TK6Ep MM P-mount Cartridge

Universal design with 0.2 x 0.7 mil square-shank nude diamond. Output 5 mV at 5 cm/sec; FR 10-30,000 Hz; sep 29 dB at 1,000 Hz, 20 dB at 10,000 Hz; tracking-force range 1-1.5 g; cartridge weight 6 g ..... \$150

## Signet Standard 107 Cartridge

Universal mount, linear contact stylus. Output 3.0 mV at 1,000 Hz; sep 31 dB at 1.00 Hz; tracking force 1.6 g ..... \$150

## MR5.0 Basic MM Cartridge

Uncore-coil generating system with LC-OFC wire and 0.4 x 0.7 mil bonded elliptical stylus. Output 5 mV at 5 cm/sec; FR 15-25,000 Hz; sep 27 dB at 1,000 Hz, 17 dB at 10,000 Hz; tracking-force range 1.3-2.3

g; cartridge weight 6 g ..... \$125  
Signet Standard 105 Cartridge

Universal mount, 0.3 x 0.7 mil elliptical stylus; output 5.0 mV at 1,000 Hz at 5 cm/sec; FR 15-27,000 Hz; sep 29 dB at 1,000 Hz; tracking force 1.6 g ..... \$125

## TK4Ep MM P-mount Cartridge

Universal design with 0.3 x 0.7 mil nude stylus. Output 5 mV at 5 cm/sec; FR 15-20,000 Hz; sep 28 dB at 1,000 Hz, 19 dB at 10,000 Hz; tracking-force range 1-1.5 g; cartridge weight 6 g ..... \$95

## Signet Standard 103 Cartridge

Universal mount, 0.4 x 0.7 mil elliptical stylus; output 5.0 mV at 1,000 Hz at 5 cm/sec; FR 15-25,000 Hz; sep 29 dB at 1,000 Hz; tracking force 1.6 g ..... \$90

## TK2Ep MM P-mount Cartridge

Universal design with 0.4 x 0.7 mil elliptical stylus. Output 5 mV at 5 cm/sec; FR 15-25,000 Hz; sep 26 dB at 1,000 Hz, 17 dB at 10,000 Hz; tracking-force range 1-1.5 g; cartridge weight 6 g ..... \$65

## Signet Standard 101 Cartridge

Universal mount; 0.6 mil stylus; output 5.0 mV at 1,000 Hz at 5 cm/sec; FR 20-20,000 Hz; sep 24 dB at 1,000 Hz; tracking force 1.6 g ..... \$60

## Signet Standard 100 Cartridge

.5" mount; 0.4 x 0.7 mil elliptical stylus; output 4.2 mV at 1,000 Hz at 5 cm/sec; FR 20-22,000 Hz; sep 22 dB at 1,000 Hz; tracking force range 1.5-2.5 g ..... \$60

## Tonearms

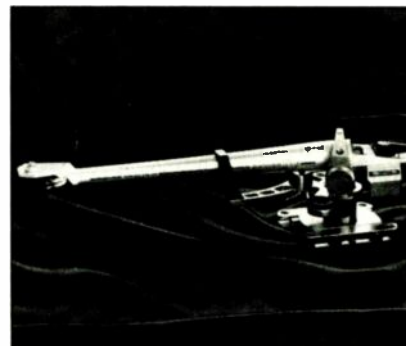
### XK-35 Tonearm

Tonearm with Signetrace damped planar tracking, nonremovable tube features tracking error  $\pm$  1"; cable capacitance 75 pF; effective length (stylus tip to pivot) 240 mm; tracking force range 0-2 g; acceptable cartridge weight 2-9 g; anti-skating adjustment permanent thread and weight with detents ..... \$325

## SME BY SUMIKO

### SME Series V Straight Tonearm

Dynamically balanced tonearm with ultra-rigid 1-piece magnesium casting from headshell to rear of counterweight rails. Features captive ball-race bearings; VTA adjustable during play; internally tapered arm tube for reduced mass and better control of standing waves; silver wiring-throughout. Tracking force 0-3 grams calibrated to 0.1; effective mass 11 g; offset angle 23x 38"; Satin black; tonearm weight 720 g ..... \$1,995



Series IV. Similar to Series V except ABEC 3 bearings; static balanced vertical tracking; manually adjusted arm height ..... \$1,200

## SOUTHER ENGINEERING

### Verliss Integrated Phono Cartridge

MC; integrated shell mounting; individual response curve supplied; hyper elliptical stylus type; FR 10-50,000 Hz  $\pm$  0.5 dB; sep 35 dB; 0.6 mV; tracking force 2.0-2.4 g; 17 g ..... \$850

### Varitas Standard Phono Cartridge

MC; spherical stylus type; individual response curve supplied; FR 10-50,000 Hz  $\pm$  0.5 dB; sens 35 dB; 0.6 mV; output 0.6 mV; tracking force 2.0-2.4 g; 4.4 g ..... \$800

### Delta Phono Cartridge

MC; spherical stylus type; individual response curve supplied; FR 10-50,000 Hz  $\pm$  0.5 dB; sep 30 dB; output 0.6 mV; tracking force 2.0-2.4 g; 4.4g ..... \$650

### Gamma Phono Cartridge

MC; spherical stylus type; individual response curve supplied; FR 10-50,000 Hz  $\pm$  0.5 dB; sep 25 dB; output 0.6 mV; tracking force 2.0-2.4 g; 4.4 g ..... \$450

## STANTON

### Calibration Series

#### 981LZ Mk IIs Phono Cartridge

Low-imp cartridge, fully calibrated for exact precision with nude Stereohedron diamond stylus. Includes mounted "longhair" brush. Output 0.06 mV/cm/sec 22 dB; tracking force 1 g  $\pm$  .25 g; FR 10-50,000 Hz; sep 35 dB; weight 5.5 g ..... \$250

#### 981HZ Mk IIs Phono Cartridge

High-imp stereo cartridge with nude Stereohedron diamond stylus, fully calibrated. Includes mounted "longhair" brush. Output 0.7 mV/cm/sec; tracking force 1 g  $\pm$  .25; FR 10-50,000 Hz; sep 35 dB at 1 kHz; weight 5.5 g ..... \$250

#### 881S Mk IIs Phono Cartridge

Output 0.9 mV/cm/sec; FR 10-25,000 Hz (individually calibrated to 20,000 Hz); balance/sep (1 kHz)  $\pm$  1 dB/35 dB; load imp 47 kilohms; load capacitance 275 pF; tracking force 0.75-1.25 g; nude Stereohedron stylus; 5.7 g with self-supporting (1 g) brush; white with silver handle, white brush; replacement stylus D81S, D810 for mono LPs, D827 for 78s ..... \$180

#### 681EEE MK II-S Phono Cartridge

Induced-magnet cartridge with Stereohedron II stylus shape; dynamically improved cantilever assembly. Output 0.7 mV/cm/sec; FR 10-22,000 Hz; sep 35 dB at 1,000 Hz; tracking force 1 g  $\pm$  .25; cartridge weight 6.3 g ..... \$120

### High-Performance P-Mounts

#### L-847S P-Mount Cartridge

Top-of-the-line P-Mount cartridge. Features Stereohedron stylus; tracking .75-1.5 g; output 0.7 mV/cm/sec; FR 10-36,000 Hz; ch balance < 2 dB; sep 35 dB, 5.9 g; replacement stylus D84S ..... \$198

#### L-837S P-Mount Cartridge

Features Stereohedron stylus; tracks at 0.75-1.5 g; ch balance  $\pm$  2 dB; sep 35 dB; 5.9 g; replacement stylus D83S ..... \$140

### Stereo Standard P-Mount Series

#### L747S Plug-In Cartridge

Features Stereohedron stylus. FR 10-25,000 Hz; tracking force 0.75-1.5 g; output 0.9 mV/cm/sec; sep 35 dB; 5.7 g. Replacement stylus D747S ..... \$138

#### L737S Phono Cartridge

Plug-in cartridge features Stereohedron stylus. Tracking force 0.75-1.5 g; output 0.9 mV/cm/sec; FR 10-22,000 Hz; ch balance 2 dB; ch sep 35 dB. Replacement stylus D73S; weight 5.7 g ..... \$110

#### L737E Plug-In Cartridge

Elliptical stylus, 0.3 x 0.7 mil; output 0.9 mV/cm/sec; FR 10-22,000 Hz; tracking .75-1.5 g; ch balance 2 dB; sep 35 dB; weight 5.7 g. Replacement stylus D73E\$93

#### L-727E P-Mount Phono Cartridge

Plug-in cartridge with 0.4 x 0.7-mil elliptical stylus. FR 10-25,000 Hz; tracking force .75-1.5 g; output 0.8



# CARTRIDGES & TONEARMS

mV/cm/sec; sep 32 dB; replacement stylus D727E.....\$83

## L725F P-Mount Cartridge

Cartridge with elliptical stylus; tracking force 0.75-1.5 g; output 0.8 mV/cm/sec; FR 10-22,000 Hz; ch balance <2 dB; sep 28 dB; replacement stylus D71-2E; weight 5.7 g.....\$60

## L720FF P-Mount Cartridge

Elliptical stylus 0.3 x 0.7 mil; output 0.8 mV/cm/sec; FR 10-20,000 Hz; tracking .75-1.5 g; ch balance 2 dB; ch sep 28 dB; replacement stylus D71EE. Weight 5.7 g.....\$55

## Professional Cartridges—Disco Series

### 680SI Disco Cartridge

Output 1.1 mV/cm/sec; FR 20-20,000 Hz; balance/sep 2/30 dB; load resistance 47 kilohms; load capacitance 275 pF; nude Stereohedron stylus tip; tracking force 3-6 g with brush; 5.5 g.....\$109

### L680EL Disco Cartridge

For P-Mount tonearms; automatically compensates for higher tracking forces. Includes fluorescent-coated stylus. Output 1.1 mV/cm/sec; FR 20-18,000 Hz; sep 30 dB at 1,000 Hz; tracking force 3.5-4 g; weight 8.4 g. Replacement stylus D6800EL....\$106

### 680FI Disco Cartridge

Output 0.82 mV/cm/sec; FR 20-18,000 Hz; balance/sep ±2/30 dB (1 kHz); load imp 47 kilohms; load capacitance 275 pF; tracking force 2-5 g; 0.4 x 0.7-mil elliptical diamond stylus; 5.5 g; replacement stylus D6800EL. Comes with extra stylus.....\$106

### 681SF Phono Cartridge (Calibrated)

Output 1 mV/cm/sec; FR 10-10,000 Hz ±0.5 dB; 10,000 Hz to 20,000 Hz, individually calibrated; balance/sep ±2 dB/35 dB (1 kHz); load imp 47 kilohms; load capacitance 275 pF; tracking force 2-4 g; 0.4 x 0.7-mil elliptical stylus; weight 5.5 g with self-supporting (1 g) brush; replacement stylus D6800SE, D6810 for LPs, D6827 for 78s.....\$110

### 680AL Disco Cartridge

Output 1.1 mV/cm/sec; FR 20-18,000 Hz ±2 dB; bal/sep ±2/30 dB (1 kHz); load resistance 47,000 ohms; load capacitance 275 pF; tracking force 2-5 g; 0.7-mil spherical stylus tip; comes with extra stylus. Weight 5.5 g; replacement stylus D6800AL....\$90

### L500AL Disco Cartridge

P-Mount MM cartridge automatically compensates for higher tracking forces required for disco use. Comes with fluorescent-coated stylus. Output 1.0 mV/cm/sec; FR 20-17,000 Hz; sep 28 dB at 1,000 Hz; tracking force 3.5-4 g; cartridge weight 8.5 g; replacement stylus D57PAL.....\$53  
**500EL.** Similar to above except output FR 20-18,000 Hz; sep 30 dB at 1,000 Hz; tracking force 2-5 g; cartridge weight 5 g; replacement stylus D5100EL\$58

### 500AL Disco Cartridge

Output 1.0 mV/cm/sec; FR 20-17,000 Hz ±2 dB; bal/sep ±2/28 dB (1 kHz); load resistance 47,000 ohms; load capacitance 275 pF; tracking force 3-7 g; 0.7 mil spherical stylus. Weight 5 g; replacement stylus D5107AL.....\$53

## Stereo Standard Series (with "Longhair" Brush)

### 680EE Phono Cartridge

Output 0.82 mV/cm/sec; FR 20-20,000 Hz; balance/sep ±2 dB/35 dB (1 kHz); load imp 47 kilohms; load capacitance 275 pF; tracking force 0.75-1.5 g; 0.3 x 0.7-mil elliptical diamond stylus D680.....\$83

## Broadcast Series--Mark II

**500FE Mk II.** Output 1 mV/cm/sec ±2 dB; FR 10-20,000 Hz; balance/sep ±2/35 dB (1 kHz); tracking

force .75-1.5 g; 0.3 x 0.7-mil elliptical diamond stylus; replacement stylus D50EE Mk II.....\$55  
**500E Mk II.** Output 1 mV/cm/sec ±2 dB; FR 10-20,000 Hz; balance/sep ±2/35 dB (1 kHz); 0.3 x 0.7-mil elliptical diamond stylus.....\$50  
**500A Mk. II.** Output 1 mV/cm/sec ±2 dB; FR 10-20,000 Hz; balance/sep ±2/35 dB (1 kHz); tracking force .75-1.5 g; 0.3 x 0.7-mil elliptical diamond stylus; replacement stylus D50A Mk II.....\$38

## SUPEX BY SUMIKO

### SD-901 Mark IV T.Q.A. Phono Cartridge

High-output MC cartridge with improvements over SD-901E in high-frequency linearity, tracking, and dynamics. Features output 1.7 mV at 3.54 cm/sec; FR 10-42,000 Hz ±2 dB; sep 27 dB at 1,000 Hz; tracking force 1.8-2.2 g; cartridge weight 9.1 g.....\$380

### SD-900 Mark IV T.Q.A. Phono Cartridge

Image specificity, tracking, and dynamic contrast improved over SE-99E; nude-mount elliptical Vital solid diamond stylus. Each cartridge hand-selected by David W. Fletcher. Output 0.2 mV at 3.54 cm/sec; FR 10-50,000 Hz ±2 dB; sep 27 dB at 1,000 Hz; tracking force 1.8-2.2 g; cartridge weight 8.3 g. \$360  
**SD-900E+ Super.** ....\$295

### SD-3300 Boron Phono Cartridge

MC cartridge with miniaturized body of nonresonant material and Vital diamond grain-oriented stylus; hand-wound coils; samarium-cobalt magnets; boron tube cantilever. Output 0.15 mV at 3.54 cm/sec; FR 20-30,000 Hz ±3 dB; sep 30 dB at 1,000 Hz; tracking force 1.5-1.9 g; cartridge weight 3 g.....\$850

## TALISMAN BY SUMIKO

### Virtuoso DTi Phono Cartridge

MC cartridge with diamond titanium-tube cantilever and anti-resonance foam insert; mass-reduced van den Hul Type I stylus. Output 1.8 mV at 5 cm/sec; FR 15-35,000 Hz ±3 dB; sep 30 dB at 1,000 Hz; tracking force 1.75-2.25 g; cartridge weight 7.5 g....\$1,200  
**Virtuoso Boron**.....\$850

### Talisman B vdH MC Cartridge

MC cartridge with Direct Field Focus design to reduce magnetic losses and fringing effects by eliminating magnetic yokes and all but 1 pole piece. Features energy from samarium cobalt ring magnet pulled across coils by front-mounted pole piece; solid zinc body; boron rod cantilever with reduced mass van den Hul Type I stylus; long-line-contact diamond.....\$325

**Talisman S vdH.** Identical to Talisman B except sapphire-tube cantilever.....\$395

**Talisman AT.** Identical to Talisman S except aluminum/magnesium alloy cantilever with nude-mounted elliptical diamond stylus.....\$225

### Alchemist IIIs vdH Phono Cartridge

Phono cartridge with "Intensified Focus" design for high output without slow transients, poor tracking ability, straining at high modulations. Features intense magnetic focus at coils concentrates energy to prevent virtually all losses and fringing effects. Sapphire rod cantilever with reduced mass stylus. FR 10-60,000 Hz; sep 30 dB at 1,000 Hz; tracking force 1.5-2.5 g; cartridge weight 6.7 g.....\$495

### Alchemist IIB vdH Phono Cartridge

Similar to Alchemist IIIs except boron-rod cantilever

with reduced mass van den Hul Type I stylus. \$475  
**Alchemist IA.** Similar to Alchemist IIIs except aluminum/magnesium cantilever with nude-mount elliptical stylus.....\$323

## TECHNICS

### EPC-205CMK4 MM P-Mount Cartridge

MM cartridge with ultra-low-mass cantilever P-Mount cartridge features elliptical nude diamond; effective mass 0.019 mg; neodymium magnet. \$250  
**EPC-205CMK4.** Regular mounting.....\$280

### EPC-P310 MCMK2 MC Cartridge

MC cartridge with ultra-low-mass cantilever features output 1.2 mV at 5 cm/sec; sep 25 dB at 1,000; tracking force 1.25 g ±0.25 g; cartridge weight 6 g.....\$200

### EPC-P550 MM Cartridge

With ultra-low-mass cantilever. Output 2.5 mV at 5 cm/sec; sep 25 dB at 1,000 Hz; tracking force range 2.5 g ±0.25 g; cartridge weight 6 g; 0.3 x 0.7 mil elliptical diamond.....\$130

### EPC-P540 MM Cartridge

Output 2.5 mV cm/sec; sep 25 dB at 1,000 Hz; tracking force 1.25 ±0.25 grams; cartridge weight 6 g.....\$95

### EPC-P530 MM Cartridge

Output 2.5 mV at 5 cm/sec; sep 25 dB at 1,000 Hz; cartridge weight 6 g.....\$80

## Tonearm

### EPA 250 S-Shaped Tonearm

Dynamically balanced tonearm with decoupled counterweight. Effective length 250 mm; tracking error +1x 6° at inner groove and +2x6° at outer groove.....\$790

## YAMAHA

### MC-100 Moving-Coil Phono Cartridge

Features cross-matrix air-core moving-coil system; pure-beryllium tapered tubular cantilever; distinctive metal housing for high magnetic flux density; 9.5 g.....\$300

### MC-505 Moving-Coil Phono Cartridge

Features cross-matrix moving-coil system; pure-beryllium-tapered tubular cantilever; Low Temperature Dependency (LTD) equalizing damper; sendust core; 1-point suspension; resonance-free one-piece housing. 3.4 g.....\$200

### MC-501 Moving-Coil Phono Cartridge

Features cross-matrix moving-coil system; aluminum-tapered tubular cantilever; Low Temperature Dependency (LTD) equalizing damper; sendust core; resonance-free one-piece housing. 3.4 g.....\$150

### MC-10 Lo/High Output MC Phono Cartridge

Features cross-matrix moving-coil system; aluminum-tapered tubular cantilever; original equalizing damper; metal housing assembly.....\$120

### MC-21 MC/MM Phono Cartridge

Features MM/MC phono input compatibility; cross-matrix moving-coil system; aluminum tapered tubular cantilever.....\$70

## PRICES LISTED

are manufacturers' suggested retail prices  
 (also referred to as *list* prices);  
 actual selling prices are set by individual dealers.  
 All prices are subject to change without notice.

# S P E A K E R S



## ACOUSTIC INTERFACE

### Sound Prism Speaker

Vented-horn speaker with 24" x 52" compression woofer, 13" x 22" horn midrange, 7.25" x 3" horn tweeter, built-in triamplification (1,500 W/woofer, 300 W/midrange, 100 W/tweeter). Features midrange, tweeter level controls; oiled walnut or oak cabinet. FR 10-10,000 Hz  $\pm 1$  dB; sens 105 dB SPL/W/m; crossovers 550 and 5,000 Hz; imp 8 ohms; 80 x 27 x 36 in; 500 lb. . . . . \$30,000/pr

### Sound Portal Speaker

Vented-horn speaker with 24" x 32" compression woofer, 19" x 7" horn midrange, 5" x 5" horn tweeter. Features midrange, tweeter level controls; oiled walnut or oak cabinet. FR 15-20,000 Hz  $\pm 2.5$  dB; crossovers 800 and 5,000 Hz; sens 101 dB SPL/W/m; imp 8 ohms; 60 x 25 1/2 x 24 in. . . . . \$10,000/pr

### Studio Reference Speaker

Vented speaker with 12" woofer, 15" x 4" horn midrange; 5/4 x 2" horn tweeter. Features midrange, tweeter level controls; oiled walnut or oak cabinet; black cloth grille. FR 22-20,000 Hz  $\pm 2.5$  dB; crossovers 880 and 5,000 Hz; sens 98 dB SPL/W/m; min power 15 W; imp 8 ohms; 48 x 18 1/2 x 16 in; 102 lb. . . . . \$3,180/pr

### Professional Series II Speaker

Vented speaker with 12" woofer; 2" dome midrange; 1" dome tweeter. Features midrange and tweeter controls; oiled walnut or oak cabinet; black cloth grille. FR 29-20,000 Hz  $\pm 2.5$  dB; crossovers 800 and 6,600 Hz; sens 95 dB SPL/W/m; min power 15 W; imp 8 ohms; 36 x 18 1/2 x 16 in; 80 lb. . . . . \$1,780/pr

### Transcendent Speaker

Vented speaker with 12" woofer, 1 1/4" dome midrange/tweeter. Features midrange, tweeter level controls; oiled walnut or oak cabinet; black cloth grille. FR 38-20,000 Hz  $\pm 2.5$  dB; crossover 1,900 Hz; sens 94 dB SPL/W/m; min power 15 W; imp 8 ohms; 24 x 16 x 14 1/2 in; 51 lb. . . . . \$980/pr

### Intimate Speaker

Acoustic-suspension speaker with 10" woofer, 1" dome tweeter. Features tweeter level control; oiled walnut or oak cabinet; black cloth grille. FR 49-20,000 Hz  $\pm 2.5$  dB; crossover 5,000 Hz; sens 93 dB SPL/W/m; min power 15 W; imp 8 ohms; 19 x 12 x 12 in; 29 lb. . . . . \$580/pr

### Shadow Speaker

Acoustic-suspension speaker with 8" woofer, 1" dome tweeter. Features cylindrical cabinet covered with black cloth grille. FR 69-20,000 Hz  $\pm 2.5$  dB; crossover 5,000 Hz; sens 91 dB SPL/W/m; min power 15 W; imp 8 ohms; 24 1/2 x 8 3/4 in. . . . . \$380/pr

### Angstrom Speaker

Acoustic-suspension speaker with 6 1/2" woofer, 1" dome tweeter. Features charcoal enamel cabinet; black cloth grille. FR 78-20,000 Hz  $\pm 2.5$  dB; sens 90 dB SPL/W/m; min power 15 W; imp 8 ohms. 12 7/8 x 7 1/2 x 6 1/2 in; 9 lb; walnut or oak finish . . . \$350/pr  
Charcoal-enamel finish . . . . . \$250/pr

### Tremor Subwoofer

Vented subwoofer with 2 woofers in separate suben-

losures. Features oiled walnut or oak cabinet; black cloth grille. FR 29-200 Hz  $\pm 2.5$  dB; sens 96 dB SPL/W/m; min power 15 W; imp 8 ohms; 27 x 63 1/2 x 16 in; 150 lb. . . . . \$1,090 ea  
With 800 W/ch x 2 internal amplification \$1,790 ea

## ACOUSTIC RESEARCH

### STC 666 Subwoofer/ Satellite System

New STC (Series Tuned Cavity) system. The STC subwoofer is small enough to be hidden leaving only the satellites visible. AR's proprietary enclosure uses two tuned cavities in a series configuration. Uses a newly developed set of enclosure parameters to eliminate unwanted high frequencies that would allow the ear to pinpoint the position of the subwoofer. The first cavity works to increase efficiency of the loudspeaker in the bass frequencies and minimizes distortion by limiting woofer excursion near resonance. The second cavity acts as a high frequency output from the two 6" woofers. The satellites feature a black cabinet with a choice of oak or walnut wood trim. Satellites have shielded drivers for use in video systems . . . . . \$649/system

### TSW Series

All TSW-series speakers feature drivers in a vertical array with Acoustic Blanket for precise stereo imaging, and polypropylene woofer and midrange drivers.

### TSW-910 4-Way Speaker

Floor-standing columnar acoustic-suspension speaker with Tetra-Helix tweeter mounting plate. Features two 12" woofers (one front-firing, one rear-firing); 8" lower-midrange driver; two 6.5" midranges; 1" titanium-dome liquid-cooled tweeter with acoustic lens; split crossover network. Power range 35-400 W; imp 4 ohms; FR -3 dB (half-power) points at 28 Hz and 32,000 Hz; sens 90 dB with 2.83 V rms input at 1 meter on axis. Solid walnut or oak top and bottom with cloth-covered and black-vinyl-veneer cabinet and black cloth grille. 52.81 x 15.75 x 18.5-in; 140 lb. . . . . \$2,200/pr

### TSW-810 3-Way Speaker

Floor-standing columnar acoustic-suspension speaker with Tetra-Helix tweeter mounting plate. Features two 10" woofers (one front-firing, one rear-firing); two 6.5" midranges; 1" titanium-dome liquid-cooled tweeter with acoustic lens; split crossover network. Power range 25-250 W; imp 4 ohms; FR -3 dB (half-power) points at 33 Hz and 32,000 Hz; sens 90 dB with 2.83 V rms input at 1 meter on axis. Solid walnut or oak top and bottom with cloth-covered and black-vinyl-veneer cabinet and black cloth grille. 42.56 x 15.75 x 18.5-in; 95 lb. . . . . \$1,900/pr

### TSW-710 3-Way Speaker

Floor standing columnar acoustic-suspension speaker with Tetra-Helix tweeter mounting plate. Features two 8" filled polypropylene cone long throw woofers; 6.5" filled polypropylene cone midrange in its own subenclosure; .75" titanium dome liquid cooled tweeter. Power range 15-175 W; imp 4 ohms; s/n -3 dB (half-power) points at 40 Hz and 40,000 Hz; sens 90 dB SPL with a 2.83 VRMS drive level input at 1 meter on axis. Solid American hardwood top and bottom (walnut or oak) with black vinyl veneer cabinet and black cloth space frame grille; 38.5 x 14.1 x 13.4-in; 46 lb. . . . . \$1,300/pr

### TSW-610 3-Way Speaker

Floor-standing acoustic-suspension speaker with Tetra-Helix tweeter mounting plate. Features 12" woofer; 6.5" midrange; 0.75" titanium-dome liquid-cooled tweeter with acoustic lens. Power range 15-175 W; imp 4 ohms; FR -3 dB (half-power) points at 40 Hz and 40,000 Hz; sens 90 dB with 2.83 V rms input at 1 meter on axis. Solid walnut or oak top and bottom with black-vinyl-veneer cabinet and black cloth grille. 32.88 x 14.06 x 13.31-in; 57 lb \$1,000/pr

### TSW-510 3-Way Speaker

Floor-standing acoustic-suspension speaker with Tetra-Helix tweeter mounting plate. Features 10" woofer; 6.5" midrange; 0.75" titanium-dome liquid-cooled tweeter with acoustic lens. Power range 15-150 W; imp 4 ohms; FR -3 dB (half-power) points at 44 Hz and 40,000 Hz; sens 90 dB with 2.83 V rms input at 1 meter on axis. Solid walnut or oak top and bottom with black-vinyl-veneer cabinet and black cloth grille. 30.13 x 14.06 x 13.31-in; 49 lb. \$800/pr

### TSW-410 3-Way Speaker

Bookshelf acoustic-suspension speaker with Tetra-Helix tweeter mounting plate. Features 8" woofer; 6.5" midrange; 0.75" titanium-dome liquid-cooled tweeter with acoustic lens. Power range 10-100 W; imp 4 ohms; FR -3 dB (half-power) points at 46 Hz and 40,000 Hz; sens 89 dB with 2.83 V rms input at 1 meter on axis. Solid walnut or oak top and bottom with black-vinyl-veneer cabinet and black cloth grille. 24.5 x 12.31 x 11.72-in; 30.5 lb. . . . \$600/pr

### TSW-315 3-Way Speaker

Bookshelf acoustic-suspension speaker with Tetra-Helix tweeter mounting plate. Features 6.5" woofer; 6.5" woofer/midrange; .75" titanium dome liquid cooled tweeter with Tetra-Helix mounting plate. Power range 10-100 W; imp 4 ohms; FR-3 dB points at 48 Hz and 40,000 Hz; sens 89 dB with 2.83 V rms input at 1 meter on axis. Solid walnut or oak top and bottom with black-vinyl-veneer cabinet and black cloth grille. 22.5 x 12.31 x 11.72-in; 30.5 lb. \$550/pr

### TSW-310 2-Way Speaker

Floor-standing acoustic-suspension speaker with Tetra-Helix tweeter mounting plate. Features 10" woofer; 0.75" titanium-dome liquid-cooled tweeter with acoustic lens. Power range 10-100 W; imp 6 ohms; FR -3 dB (half-power) points at 45 Hz and 40,000 Hz; sens 90 dB with 2.83 V rms input at 1 meter on axis. Solid walnut or oak top and bottom with black-vinyl-veneer cabinet and black cloth grille. 27.75 x 12.31 x 11.72-in; 35.5 lb. . . . \$540/pr

### TSW 115P Powered Speakers

Fully self contained powered speakers with shielded drive units for video system capability. Drivers are in a vertical array with an Acoustic Blanket. Features 4" filled polypropylene cone acoustic suspension woofer with electronic bass extension equalization. .75" titanium dome liquid-cooled shielded tweeter with Tetra-Helix mounting plate. Power LED; volume control; input/output panel with 2 DIN plug for audio output to accessory speaker, and stereo receptacle for audio input. Solid walnut or oak top and bottom, black-vinyl-veneer cabinet. . . . . \$400/pr

### TSW-210 2-Way Speaker

Bookshelf acoustic-suspension speaker with Tetra-



# SPEAKERS

Helix tweeter mounting plate. Features 8" woofer, 0.75" titanium-dome liquid-cooled tweeter with acoustic lens. Power range 10-100 W; imp 8 ohms; FR -3 dB (half-power) points at 54 Hz and 40,000 Hz; sens 87 dB with 2.83 V rms input at 1 meter on axis. Solid walnut or oak top and bottom with black-vinyl-veneer cabinet and black cloth grille. 17.56 x 9.81 x 8.4-in; 15.3 lb ..... \$380/pr

## TSW-110 2-Way Speaker

Bookshelf acoustic-suspension speaker with Tetra-Helix tweeter mounting plate. Features 6.5" woofer; 0.75" titanium-dome liquid-cooled tweeter with acoustic lens. Power range 10-75 W; imp 8 ohms; FR -3 dB (half-power) points at 68 Hz and 40,000 Hz; sens 88 dB with 2.83 V rms input at 1 meter on axis. Solid walnut or oak top and bottom with black-vinyl-veneer cabinet and black cloth grille. 14.94 x 9.81 x 8.4-in; 14 lb ..... \$280/pr

## Partners Series

### Party Partner

Bookshelf/floor standing acoustic suspension 2 way speaker system. Features 10" long throw woofer, 1.14" liquid cooled dome tweeter. Sens 89 dB SPL with a 2.83 VRMS drive level input at 1 meter on axis. Power range 20-100 W; FR-3 dB points at 48 Hz and 22,000 Hz with an effective Qof 1.15 at resonance; imp 8 ohm. Triangular cabinet 14 x 23.63 x 15.38-in; 30 lb ..... \$450/pr

### Powered Partner Speaker

Acoustic-suspension bookshelf 2-way speaker with shielded drivers for use with TV and personal stereo systems. Features built-in equalized amp; on/off switch; volume and tone controls; AC/DC inputs; 4" long-throw woofer; 1" liquid-cooled tweeter. Can be placed on top or near TV, hung on a pole, mounted on wall, or clamped to a shelf with optional clamps. FR 50-25,000 Hz  $\pm$  3 dB; imp 10 kilohms. Black aluminum finish. Triangular shape 6 x 10.5 x 7.62-in d; 7 lb ea ..... \$400/pr

### Rock Partner 2-Way Speaker

Acoustic-suspension floor-standing or bookshelf speaker with 8" long-throw woofer and 1.25" liquid-cooled cone tweeter. Triangular shaped with versatile mounting placements and options. FR 65-22,000 Hz  $\pm$  3 dB; max power 100 W rms; sens 88 dB SPL/W/m; imp 8 ohms. Black vinyl veneer. 14.75 x 9.5 x 8.75-in; 15 lb ea ..... \$300/pr

### Environmental Partner 2-Way Speaker

Weather-resistant acoustic-suspension speaker with triangular shape for versatile mounting options. Features 4" long-throw polypropylene woofer; 1" liquid-cooled polymer cone tweeter. Power range 7-75 W; imp 6 ohms; FR 95-25,000 Hz  $\pm$  3 dB; sens 88 dB SPL/W/m. Die-cast aluminum case and endcap. 6 x 10.5 x 7.63-in; 6 lb ea ..... \$300/pr

### Active Partners

Self contained powered 2-way speaker system with shielded drive units and versatile mounting system. Features 4" long throw woofer and liquid cooled 2" tweeter. Amp power 24 W. Comes with AC/DC power supply ..... \$270/pr

### AR1MS Miniature Speaker

Acoustic-suspension speaker with rigid deep-drawn aluminum cabinet. Threaded inserts on rear allow multiple mounting options. 4" cone woofer; 1" dome tweeter. FR 95-25,000 Hz  $\pm$  3 dB; power range 7-75 W; sens 95 dB SPL/W/m; imp 4 ohms; satin black finish; 7.62 x 4.75 x 4.8-in; 4.5 lb ..... \$280/pr

a/d/s/

## Monitor Series

### M15 Floor-Standing 3-Way Speaker

Vertically aligned "unison" drivers (2 10" woofers

and 5.25" midrange in separate subenclosure, 1" dome tweeter); woofers near floor, midrange at top to control boundary effects; copolymer diaphragms; 4th-order (24 dB per octave) Linkwitz-Riley crossovers at 200 and 2,000 Hz; stainless-steel voice-coil former; magnetic cooling fluid in midrange and tweeter for high power handling and dynamic linearity; frameless perforated-steel grilles; walnut veneer or black. FR 30-22,000 Hz  $\pm$  3 dB; sens 89 dB SPL/W/m; imp 8 ohms. 47.3 x 11.5 x 15.8-in; 105 lb ..... \$3,000/pr  
M12. Similar to M15 except 8" woofers; FR 36-22,000 Hz  $\pm$  3 dB; sens 88 dB SPL/W/m; 43.3 x 10.5 x 14.2-in; 85 lb ..... \$1,900/pr  
M9. Similar to M12 except 1 10" woofer; 33.7 x 11.5 x 13-in; 80 lb ..... \$1,400/pr

## Compact Monitor Series

### CM7 3-Way "Unison" Speaker

7" woofer, 1.5" dome midrange, 1" dome tweeter; copolymer diaphragms; 4th-order Linkwitz-Riley crossovers at 700 and 2,000 Hz; voice-coil formers of stainless steel for woofer and Kapton for midrange and tweeter; magnetic cooling fluid in midrange and tweeter for high power handling and dynamic linearity; enclosure molded from polymer resin filled with metallic mineral for high density and inertness; frameless perforated steel grille. Black or white. FR 40-22,000 Hz  $\pm$  3 dB; sens 87 dB SPL/W/m; imp 4 ohms; 16.4 x 8.8 x 10.9 in; 45 lb ..... \$1,400/pr  
CM6. Similar to CM7 except 2-way, with 6" woofer and 1" tweeter; 2,000-Hz crossover; FR 50-22,000 Hz  $\pm$  3 dB; 12.7 x 7.3 x 8.9-in; 33 lb ..... \$900/pr  
CM5. Similar to CM6 except 5.25" woofer; FR 65-22,000 Hz  $\pm$  3 dB; sens 86 dB SPL/W/m; 9.7 x 5.7 x 6.9-in; 22 lb ..... \$650/pr

### B8 Two Way Speaker

Bookshelf 2 way speaker with 1" dome tweeter and 8.5" Stiffite woofer. Power handling 15-125 W; FR44-22,000 Hz; imp 4 ohms; crossover freq. 2,000 Hz; 19.7 x 11.4 x 10.3 in; 25 lb; black ..... \$500/pr

### B7 Two Way Speaker

Bookshelf 2 way speaker with 1" dome tweeter and 7.7" Stiffite woofer. Power handling 15-100 W; FR46-22,000 Hz; imp 4 ohms; crossover freq 2,400 Hz; 17.1 x 10 x 9.1 in; 19 lb; black ..... \$420/pr

## Miniature Speakers

### 300C 2-Way Acoustic-Suspension Speaker

5.25" high-compliance long-excursion Stiffite woofer, 1" soft-dome tweeter. Features aluminum enclosure (black textured urethane with convex-steel grille). Available on special order in 6 custom colors with matching grilles and brackets (black, light grey, dark grey, beige, mocha, white). FR 65-20,000 Hz  $\pm$  3 dB; crossover 2,000 Hz with 12 dB/octave slope; sens 89 dB SPL/W/m; rated input 50 W continuous, 75 W peak program; imp 4 ohms ..... \$430/pr

### 200C 2-Way Acoustic-Suspension Speaker

4" high-compliance ultra-long-excursion woofer, 1" soft-dome tweeter; brushed-aluminum enclosure (textured urethane with convex-steel grille). Available on special order in 6 custom colors with matching grilles and brackets (black, light grey, dark grey, beige, mocha, white). FR 85-20,000 Hz  $\pm$  3 dB; crossover 2,000 Hz with 12 dB/octave slope; sens 88 dB SPL/W/m; rated input 30 W continuous; min input 5 W; imp 4 ohms. 6.88 x 4.25 x 4.75-in \$330/pr

## ADVENT

### The Advent Maestro

Acoustic-suspension floor-standing speaker with solid-pecan top and base with beveled edges, anti-diffraction baffle cover, and grille with rounded side edges. Features 10" black cone and surround woofer; 2" mica-filled black polypropylene-dome midrange in subenclosure; 1" ferrofluid-filled soft-dome tweeter.

FR 40-23,000 Hz  $\pm$  2.5 dB; min power 150 W rms; max power 750 W peak; sens 90 dB SPL/W/m; imp 6 ohms. 50 lb; 33.25 x 16 w x 9.75-in ..... \$700/pr

### The Advent Legacy

Acoustic-suspension floor-standing liquid-cooled speaker with solid-pecan top and base with wrap-around grille. Features 10" high-excursion cone woofer with aluminum-coil form; 1" ferrofluid-filled soft-dome tweeter. FR 42-23,000 Hz  $\pm$  3 dB; min power 100 W rms; max power 500 W peak; sens 88 dB SPL/W/m; imp 8 ohms. Black texture vinyl finish over dense fiberboard. 46.5 lb; 28.25 x 16 x 9.75-in ..... \$399/pr

### Mini-Advent Subwoofer System

Complete compact size subwoofer system which includes the Mini Advent (below) two 5.25" high excursion woofers, two 5.25" high excursion midranges, and two .5" polycarbonate ferrofluid-filled tweeters. FR 60-21,000 Hz  $\pm$  3 dB; imp 6 ohms. Power handling 55 W rms, 165 W peak. 7 x 12 x 6.5-in; 11 lb ..... \$180/ca  
Total Subwoofer System with Mini Advent... \$380

### Advent Prodigy Tower

2 way floor standing speaker with .75" polyamide ferrofluid-filled tweeter and 8" high excursion woofer. 300 W peak 75 W rms. Finished in an oiled solid



pecan wood top and base. 28.5 x 10.03 x 8.78-in; 25.25 lb ..... \$350/pr

### Advent Baby II

2 way bookshelf speaker with 6.5" woofer and .5" polycarbonate ferrofluid-filled hard dome tweeter. 50 W rms, 150 W peak FR 60-21,000 Hz  $\pm$  3 dB; imp 6 ohms. Oiled solid wood top with black texture vinyl over dense fiberboard. 16.5 x 11 x 6.19-in; 13 lb ..... \$250/pr

### Mini Advent

Compact size speaker with 5.25" high excursion woofer and .5" polycarbonate ferrofluid-filled tweeter. FR 110-21,000 Hz  $\pm$  3 dB. imp 6 ohms; maximum power handling 40 W continuous, 120 W peak. Cabinet features solid pecan wood top panel with black foamed polystyrene speaker surrounds. 11 x 6.5 x 5.13-in; 10 lb ..... \$200/pr

## ALLISON ACOUSTICS

Prices may be slightly higher in some areas.

### IC-20 Image-Control Speaker

Triangular acoustic-suspension tower speaker with 1 side facing wall, 1 side facing in, 1 facing out; each side facing away from wall has 10" woofer, 2 3.5" convex midranges, 2 1" convex tweeters; relative balance of mids and tweeters on each panel may be adjusted by remote control or with switch on rear to direct more sound in (for precise imaging with more direct and less reflected sound), out (for open and spacious ambience with more reflected and less direct

# SPEAKERS

sound), left, right, or centered (for equal amplitude at off-center listening positions); level of each panel has 3 possible settings; LED's on center of speaker display setting; drivers positioned to minimize room interaction; inside woofer pointed into cabinet, outside woofer pointing out; separate inputs for woofers and for mids and tweeters for easy biamping; auto-resetting resistors in each crossover; cabinet panels 0.75"-1.25" thick, braced front-to-back and between panels; interior damped with glass fiber; passive parallel half-section crossovers at 350 and 3,750 Hz; oak, walnut, or black. FR -3 dB at 28.5 Hz, -8 dB at 21 Hz; imp 6 ohms nominal, 8 average, 5 min; power range 30-400 W/ch; sens 87 dB SPL/2.83 V/m; 48 x 21 x 12 in; 100 lb. .... \$4,900/pr

### CD9 3-Way Floor-Standing Speaker

Stabilized-radiation-loading speaker with 10" woofer,

er, 3.5" convex-diaphragm midrange, 1" convex-diaphragm tweeter, designed for placement against single wall. LC half-section crossover network; switches to select system acoustic power response (flat to concert-hall balance slope); walnut or oak-veneer cabinet with hand-rubbed lacquer finish; steel base. FR down 3 dB at 35.5 Hz; crossovers 350 and 3,750 Hz; imp 4 ohms; efficiency 0.7% at floor/wall intersection; power range 30-200 W; 37.5 x 12.5 x 10.75-in. .... \$1,300/pr

### CD8 3-Way Floor-Standing Speaker

Stabilized-radiation-loading speaker with 8" woofer, 3.5" convex-diaphragm midrange, 1" convex-diaphragm tweeter. LC half-section crossover network with switches to select system acoustic power response from flat to concert-hall slope. Walnut- or oak-veneer cabinet with hand-rubbed lacquer finish.

Crossover frequencies 450 and 3,750 Hz; efficiency 0.7%; power range 30-200 W; response -3 dB at 39 Hz; 28.62 x 10.5 x 10.5-in. .... \$950/pr

### CD7 2-Way Floor-Standing Speaker

Stabilized-radiation-loading speaker with 8" woofer, 1" convex-diaphragm tweeter, designed for placement against single wall. LC crossover network with premium chokes, computer-grade capacitors; walnut- or oak-veneer cabinet with hand-rubbed lacquer finish. Crossover 2,000 Hz; response -3 dB at 41 Hz; imp 4 ohms; power range 15-150 W; 26.5 x 9.62 x 9.62-in. .... \$600/pr

CD6. Same as CD7 except for wall or shelf mounting; response -3 dB at 46.5 Hz; 11.25 x 11.25 x 11.25-in. .... \$460/pr

### Series LC 100 Speakers

2-way stabilized-radiation-loading speakers which perform optimally standing on floor away from walls. All have walnut-grain vinyl cabinet and Allison convex-diaphragm 1" tweeter; LC crossover network with 2 chokes and premium capacitors. Crossover at 2,000 Hz; sens 90 dB SPL/2.83 V/m; power range 15-150 W.

LC 145. 8" woofer; response -3 dB at 35.5 Hz. 25 x 15.63 x 7.5-in. .... \$420/pr

LC 120. 8" woofer; response -3 dB at 41 Hz. 21.75 x 13.75 x 7.5-in. .... \$350/pr

LC 110. 8" woofer; response -3 dB at 46.5 Hz. 18 x 11.5 x 7.5-in; available in oak and black vinyl finishes. .... \$290/pr

### Mini Speakers

#### Mini 2P Powered Speaker

Mini speaker with 4" long throw woofer and 1" dome tweeter. LC type crossover operating at 2,000 Hz. Sens 90 dB SPL, 2.83 v/1M. Power range 5-50 W; imp 6 ohms. 7.3 x 4.6 x 4.4-in. .... \$359 set

#### Mini 2

Similar to above except not powered. Power handling 5-50 W/ch; imp 6 ohms. .... \$198/pr

#### Mini 2 SW Subwoofer

Less than 1 cubic foot compact subwoofer with 8" woofer and two complete crossover networks operating at 150 Hz. Sens 90 dB SPL 2.83 v/1M; power handling 10-100 W; imp 4 ohms. 11.25 x 11.25 x 11.25-in. .... \$289/ea

Mini 2 & Mini 2 SW 3 Piece System. .... \$459/set  
Wall Brackets for Mini 2 and 2P. .... \$50/pr

## ALTEC LANSING

### Bias 550 Pentamplified Speaker System

Six speaker system with two 10" carbon fiber subwoofers, 8" carbon fiber woofer, 6" carbon fiber upper midrange coupler, diamond-coated polyimide 2" upper midrange, and 1" tweeter. Amplification (five way powered system), subwoofer 250 W 4 ohms, woofer 125 W 8 ohms, midrange 125 W 8 ohms, upper midrange 125 W 8 ohms, tweeter 75 W, 8 ohms. FR 20-22,000 Hz ± 2 dB. .... \$12,000

### 510 3-Way Tower Speaker

Acoustic suspension speaker with bi-amp capability and adjustable crossover with two 10" carbon fiber woofers, 2" midrange, 1" dome tweeter, each with polyimide vacuum deposited titanium. Power range 150 W nom.- 300 W max; sens 93 dB W/m; imp 4 ohm; 46 x 12 x 13.5-in. .... \$1,500/pr

### 508 3-way Tower Speaker

Acoustic suspension with two 8" woven carbon fiber cones, 2" midrange, 1" tweeter, each with polyimide vacuum-deposited titanium housed in walnut veneer high density pressed-wood cabinet. FR 40-20,000 Hz ± 3 dB; sen 90.5 dB SPL W/m; power handling 125 W-250 W max; 40 x 10.5 x 11 in. .... \$1,000/pr



## OR YOUR MONEY BACK!

From Ortofon of Denmark, a new generation of moving coil cartridges designed to match perfectly any standard phono input, without the need for an expensive step-up device.

These products incorporate such advanced technology and provide such clarity, depth and musical detail that to adequately describe them here is impossible.

So instead, we want to describe the only features of these great phono cartridges that you really care about, **THEY SOUND BETTER!** We're so confident that any of these new cartridges will make your records sound better than the one you're listening to now, we guarantee\* it!

Purchase any cartridge from a participating authorized Ortofon Dealer. They're affordably priced. Compare the sound from your records. Even compare it to compact discs. If you're not 100% convinced that a new Ortofon X-Series High Output Moving Coil Cartridge sounds better than your old phono cartridge, return it to your dealer for a prompt refund\*.

\*Your participating authorized Ortofon Dealer has all the details on this Better Sound Guarantee.

CIRCLE NO. 81 ON READER SERVICE CARD  
Ortofon Inc., 122 Dupont St., Plainview, NY 11803 **ortofon**



F O R M   A N D   F U N C T I O N



Epicure Products Incorporated understands that creating loudspeakers of the highest fidelity and refinement requires a balance of inspired engineering and unconventional artistry. Only then can we reinvent form and function to bring you realistic sound from speakers of real beauty. Write for our brochure. Epicure Products Incorporated, 25 Hale St., Newburyport, MA 01950. **H** A Harman International Company

EPICURE

L O U D   S P E A K E R S

CIRCLE NO. 12 ON READER SERVICE CARD

# S P E A K E R S

## 305 3-Way Acoustic Suspension Speaker

Acoustic suspension with 10" carbon fiber woofer; 2" midrange; 1" tweeter. Power range 125 W nom-250 W max; sens 93 dB W/m; imp 8 ohm; 27 x 14.5 x 12-in. . . . . \$750/pr

## 205 3-Way Speaker

Acoustic-suspension speaker with 8" carbon fiber woofer, 2" midrange and 1" polyimide/titanium tweeter. Power handling 75 W nom-150 W max; sens 91 dB W/m; imp 6 ohm 22 x 12 x 9-in. . . . . \$550/pr

## 105 Bookshelf Speaker

2-way acoustic suspension speaker with 6" carbon fiber woofer and 1" polyimide/titanium tweeter. FR 50-20,000 Hz  $\pm$  3 dB; power range 50 W nom-100 W max; sens 91 dB SPL/W/m; imp 6 ohm; 17 x 9.5 x 8.5-in. . . . . \$350/pr

## 95 3-Way Speaker

Acoustic suspension speaker with 8" carbon-filled polypropylene woofer; 4" midrange; 20mm polyimide dome tweeter. FR 35-22,000 Hz; power handling 75 W nom-150 W max; sens 92 dB SPL/W/m; 22 x 12 x 9-in. . . . . \$300/pr

## 85 2-Way Bookshelf Speaker

Acoustic suspension speaker with 6.5" carbon-filled polypropylene woofer; 20mm polyimide dome tweeter. FR 35-22,000 Hz; power handling 50 W nom-100 W max; sens 92 dB SPL; 17 x 9.5 x 8.5-in. . . . . \$200/pr

## 55 Weatherproof Speaker

Compact indoor/outdoor speaker. 2-way acoustic suspension with 4" carbon fiber cloth woofer reinforced with epoxy and a 20mm polyimide dome tweeter. FR 85-20,000 Hz  $\pm$  3 dB power range 40 W nom-80 W max; nominal impedance 4 ohm; 9.38 x 7 x 5.31 in. . . . . \$250/pr

## PSW-10 Active Subwoofer

Powered subwoofer with a built-in 100 W amplifier. Features 10" carbon fiber woofer. FR 26-150 Hz  $\pm$  3 dB. Input imp line amp 7,000 ohms; 17.5 x 17.5 x 17.5-in. . . . . \$800/ca

## AMBRIA BY PARASOUND

### S-2000 5-Piece System

Subwoofer obelisk with 6 drivers; 4 satellite 2-way speakers (for pole, wall, ceiling mount with Ambria fixtures); black or white; subwoofer hand-rubbed piano-grade lacquer. FR 28-22,000  $\pm$  3 dB; sens 92 dB; imp >4 ohms with up to 10 satellites; subwoofer 12 x 12 x 46 in. . . . . \$1,750/system  
**S-1000.** Similar to S-2000 except 3 pieces; subwoofer obelisk has 4 drivers; 2 satellite speakers. FR 35-22,000  $\pm$  3 dB; imp >4 ohms with up to 6 satellites. Subwoofer 9 x 9 x 35 in. . . . . \$900/system  
**S-100.** Extra satellite speakers for S-1000 and S-2000 systems. Black or white . . . . . \$335/pr

### S-150 2-Way Link Speaker

Molded enclosure; volume control; black or white. FR 70-22,000 Hz  $\pm$  3 dB; sens 92 dB . . . . . \$495/pr

## AMERICAN ACOUSTICS

### PSW-200 Powered Subwoofer

Fifth order crossover network with parametric EQ. LED display and individual gain, frequency and boost controls. 15" vented; 15" polymer coated; 2" voice coil; FR 28-80 Hz; user adjustable sens; power handling 400 W/rms; 19.5 x 22.5 x 18.75 in. . . . . \$699 ea

### D9550 5-Way Tower Speaker

12" 5-way speaker. Features 12" polymer foam surround woofer; 2.5" sealed back with ferrofluid midrange; 1 soft-dome polymer tweeter; 1 3" cone tweeter; crossover frequency 600 Hz; FR 32-22,000 Hz; sens 99.5 dB/W/m; imp 8 ohm; peak power handling 410 W; warm oak or black ash finish; 40.88 x 15.94 x 14.56 in. . . . . \$400 ea

## D8550 3 Way Speaker

Vented speaker with 15" polymer coated woofer; 5" sealed back ferrofluid damped midrange; soft dome polymer ferrofluid tweeter. FR 37-22,000 Hz; sens 98.5 dB W/m; imp 4/8 ohm; crossover frequency 700 Hz, 5,000 Hz; power handling 205 W/rms, 410 W/peak; 30.38 x 18.5 x 14.5 in. . . . . \$350 ea

## D5550 4 Way Speaker

Vented design with 15" polymer coated woofer, 5" sealed back ferrofluid midrange; soft dome polymer ferrofluid tweeter, 3" cone ferrofluid tweeter. FR 43-22,000 Hz; sens 96.5 dB W/m; imp 4/8 ohm; crossover frequency 1,700 Hz, 6,000 Hz; power handling 120 W/rms, 240 W/peak; 27 x 15.5 x 10.25 in. . . . . \$230 ea

## D4550 3 Way Speaker

Vented design with 10" polymer woofer; 5" sealed back ferrofluid midrange; soft dome ferrofluid tweeter. FR 45-22,000 Hz; sens 95.5 dB W/m; imp 4/8 ohm; power handling 80 W/rms, 160 W/peak; 24 x 15 x 10 in. . . . . \$170 ea

## D3550 Bookshelf Speaker

2 way vented design with 8" polymer woofer; soft dome polymer ferrofluid damped and cooled tweeter. FR 60-22,000 Hz; sens 94.5 dB W/m; imp 4/8 ohm; power handling 45 W/rms, 90 W/peak; 18.5 x 11.25 x 8 in. . . . . \$120 ea

## D2550 Bookshelf Speaker

2-way vented bookshelf speaker with 6.5" polymer woofer; soft dome polymer ferrofluid tweeter. FR 65-22,000 Hz; sens 91.5 dB W/m; imp 4/8 ohm; power handling 40 watts continuous, 80 watts peak; 12.75 x 9.38 x 7. . . . . \$180 ea

## ANGSTROM ASSOCIATES

### Reflexion 3-Way Speaker

Floor standing 3-way tuned port speaker with 25 mm polyamide dome tweeter, twin 205 mm polymere loaded polypropylene low/mid frequency drivers with butyl suspension. FR 35-20,000 Hz  $\pm$  2 dB; dynamic power range 7-200 W at 10% clipping; crossover 250 Hz difference filter 2,000 Hz acoustic Butterworth; sens 95 dB SPL/2.83 vrms at 1M; nominal imp 6 ohms; 31.5 x 10.5 x 12.5-in 97 lb/pr . . . . . \$995/pr/w/stands

### Reference 2-Way Speaker

Floor standing 2-way tuned port speaker with 25 mm ferrofluid cooled cloth dome tweeter; 205 mm polymere loaded polypropylene woofer with butyl suspension. FR 37-20,000 Hz  $\pm$  2 dB; dynamic power range 10-150 W at 10% clipping; crossover 2,500 Hz acoustic Butterworth; sens 90 dB SPL/2.83 vrms at 1M; nominal imp 8 ohms; 24.25 x 10.5 x 12.5-in; 72.5 lb/pr . . . . . \$795/pr/w/stands

### New Image 2-Way Speaker

2-way tuned-port design with 25mm ferrofluid cooled cloth dome tweeter, 200 mm polymere loaded polypropylene woofer with neoprene suspension. FR 37-20,000 Hz  $\pm$  2 dB; dynamic power range 12-100 W at 10% clipping; crossover 2,500 Hz asymmetrical 2nd order; sens 89 dB SPL/2.83 vrms at 1M; imp 8 ohms; 12.5 x 10.5 x 12.5-in; 70 lb/pr . . . . . \$550/pr

### Radix Series

#### Radix 500 Floor Standing Speaker

3-way, tuned port speaker with twin low/mid drivers of 200mm polymer loaded polypropylene with butyl suspension, 25mm hi-temp voice coil, with aluminum former. 25mm polyamide ferrofluid cooled dome tweeter. FR40-20,000 Hz  $\pm$  2dB; sens 94 dB SPL 2.83 vrms at 1 m; power range 7-150 W; imp 6 ohms. 43.5 x 9.5 x 9.375-in; 55 lb . . . . . \$800/pr

#### Radix 400 Floor Standing Speaker

3-way, tuned-port speaker with twin low/mid drivers

of 165mm polymer loaded polypropylene with butyl suspension, 25 mm hi-temp voice coil, with aluminum former. 25 mm polyamide ferrofluid cooled dome tweeter. FR 40-20,000 Hz  $\pm$  2dB; sens 93 dB SPL 2.83 vrms at 1 m; minimum power 10 W; max power handling 100 W; imp 6 ohms. 37.5 x 8.5 x 9.375-in; 37.5 lb. . . . . \$650/pr

## Radix 300 Bookshelf Speaker

2-way, tuned-port speaker with low/mid driver of 200mm polymer loaded polypropylene with butyl suspension, 25mm hi-temp voice coil with aluminum former. 25mm fabric fabric dome tweeter. FR 45-20 Hz  $\pm$  2 dB; sens 91 dB SPL 2.83 vrms at 1M; power range 12-85 W; imp 8 ohms. 24.5 x 9.5 x 9.375-in; 27.5 lb . . . . . \$475/pr

## Radix 200 Bookshelf Speaker

2-way, tuned-port speaker with low/mid driver of 200mm polymer loaded polypropylene with butyl suspension, 25mm hi-temp voice coil with aluminum former. 19mm polyamide dome tweeter. FR 50-20,000 Hz  $\pm$  2 dB; sens 89 dB SPL 2.83 vrms at 1M; power range 15-70 W; imp 8 ohms. 18.8 x 8.5 x 9.375-in; 18 lb. . . . . \$350/pr

## APOGEE ACOUSTICS

### Diva 3-Way Ribbon Speaker

Full-range ribbon speaker with adjustable seamless crossover. Features trapezoidal woofer ribbon; separate midrange and tweeter ribbons. SPL 115 dB; imp 4 ohms. 73 x 31 x 3-in; 150 lb ea . . . . . \$7,500/pr

### Scintilla Full-Range Ribbon Speaker

Full-range ribbon speaker with internal seamless crossover. Features trapezoidal woofer ribbon; integrated, coalescent midrange/tweeter ribbon that utilizes filed magnetic and electromagnetic constraints. SPL 110 dB; imp 4 or 1 ohms. 57 x 30 x 3.5-in; 140 lb ea. . . . . \$3,995/pr

### Duetta 2-Way Ribbon Speaker

Mid-size 2-way full-range ribbon speaker. Utilizes ribbon transducers for both midrange/tweeter and woofer. Features trapezoidal woofer ribbon; combination midrange/tweeter ribbon; internal seamless crossovers. SPL 100 dB; imp 4 ohms. 58 x 26 x 3-in; 115 lb ea . . . . . \$3,495/pr

**Dedicated Active Crossover.** For Diva and Duetta Speakers. For use with with balanced amps or single ended amps. LED display indicates levels of woofers and midrange/tweeter . . . . . \$3,250

### Caliper 2-Way Ribbon Speaker

Mid-size 2-way full-range ribbon speaker. Features trapezoidal woofer ribbon; narrow-canted combination midrange/tweeter ribbon; seamless crossover circuitry. SPL 105 dB; imp 3 ohms. Taupe or grey finish. 48 x 24 x 2-in; 70 lb ea. . . . . \$2,395/pr

## ARCAM

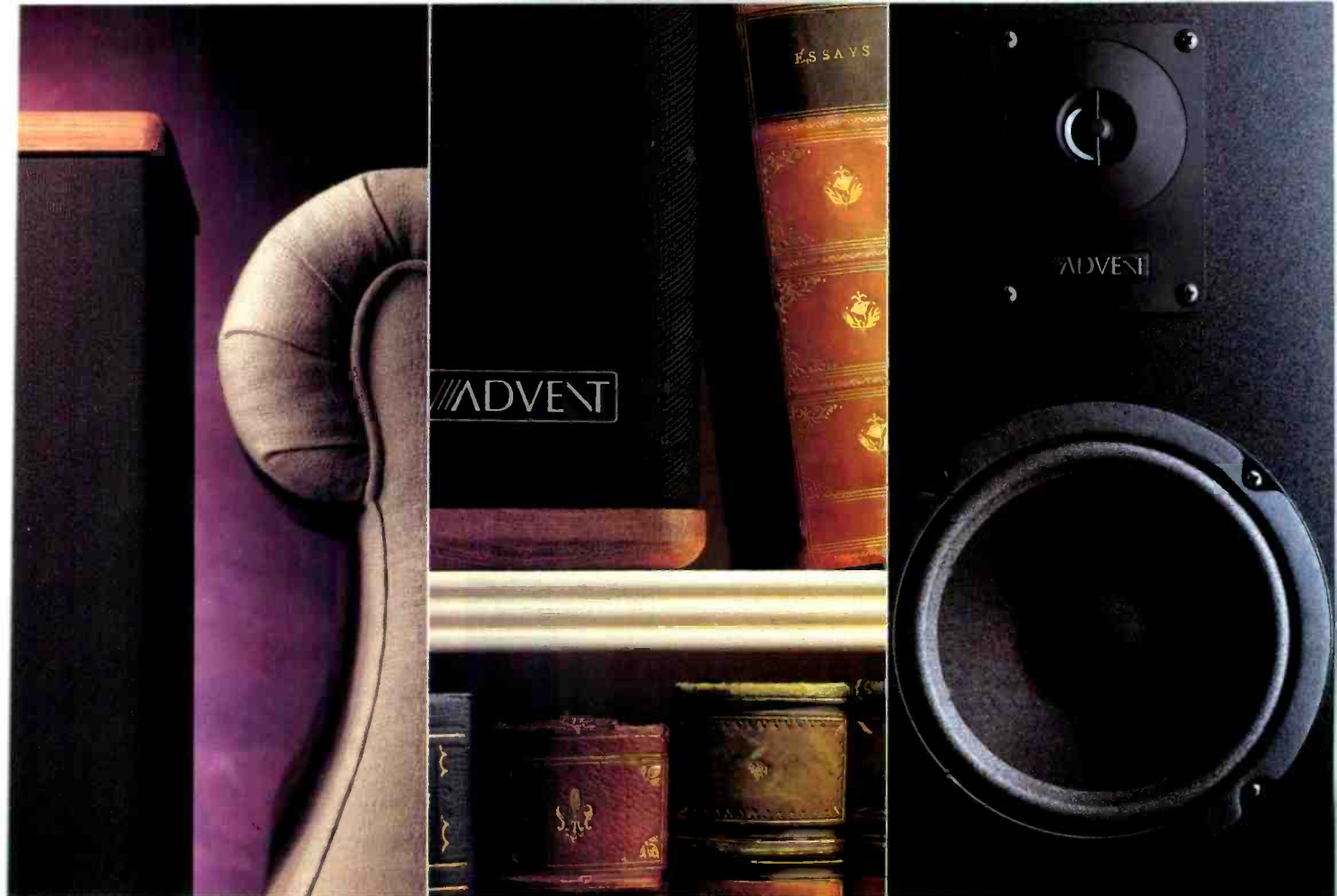
### Arcam One+ Speaker

Solid-construction, reflex-loaded cabinets with ultrarigid medite front baffles. Features genuine wood veneers; polymer coned bass-midrange match proprietary dome tweeters via 8-element crossovers; FR 35-20,000 Hz; 100 W power handling; imp 8 ohms; optional walnut or black finish. 10.15 x 12.48 x 20.20 in. . . . . \$799/pr

### Arcam Two+ Speaker

Solid-construction, reflex-loaded cabinets with ultrarigid medite front baffles. Features genuine wood veneers; polymer coned bass-midrange match proprietary dome tweeters via 8-element crossovers, which may be wired using separate cable runs from the amplifier to the bass/midrange and treble sections; FR 42-20,000 Hz; 70 W power handling; imp 8 ohms; optional walnut or black finish. 8.77 x 11 x 14.88 in. . . . . \$599/pr





# FROM THE PEOPLE WHO GIVE YOU ACCURATE SOUND, NOW COMES MORE ROOM TO ENJOY IT.

**INTRODUCING THREE SPACE-SAVING LOUDSPEAKERS FROM ADVENT.** Now you can enjoy the accurate sound of Advent® in more places than ever. Our three new speakers give you the clean, clear sound you expect from Advent, yet take up less space to do it.

**THE MINI-ADVENT AND MINI-ADVENT SUBWOOFER SYSTEM.** Mini-Advents are the perfect size for bookshelves. Desks. Even walls and ceilings, using our optional mounting brackets. They're small, but get big sound with 5¼" high excursion woofers, polycarbonate tweeters, 120 watts peak power and a tuned bass port. Or, add our subwoofer. It gives Mini-Advents the bass of a much larger system and creates exceptional stereo imaging for audio/video or surround sound systems.

**THE PRODIGY TOWER.** Taller and thinner than our still-famous Advent Prodigy, the Prodigy Tower gets maximum sound using minimum floorspace. How? With 300 watts

peak power, a more efficient 8" woofer and a polycarbonate dome tweeter for improved dispersion.

**THE BABY II.** Last, but not littlest, is the improved Baby Advent. Just as compact as the original Baby, but with a couple of changes that show it's maturing quite nicely. Like a ferrofluid-filled polycarbonate dome tweeter and re-adjustable logo for horizontal and vertical speaker placement.

All three new Advents have natural wood tops and bases. Even if you never hooked them up, they'd make great looking furniture.

Come in to your nearest Advent dealer and listen to the new Mini-Advent, Prodigy Tower and Baby Advent. And don't worry about the crowds. With these speakers, there's always plenty of room.



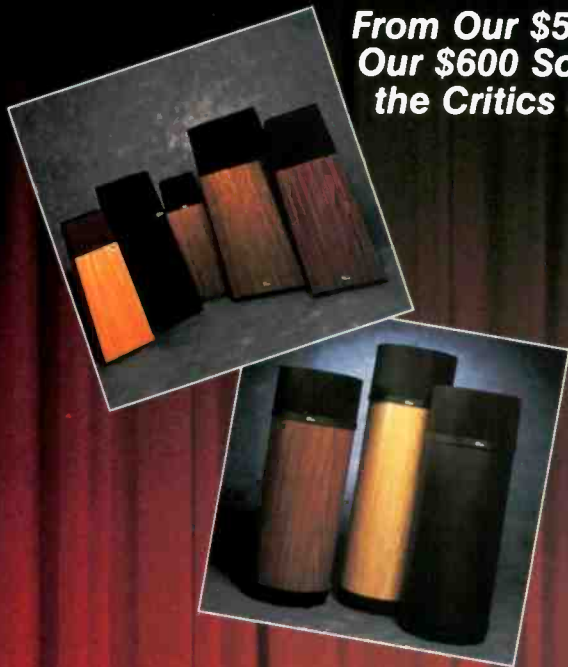
**ADVENT®**

*Sound as it was meant to be heard.*



# Ohm CLS Drivers Make Your Speakers Disappear

From Our \$5000 Walsh 5 to  
Our \$600 Sound Cylinders  
the Critics are Impressed.



Ohm speakers give a stereo image that is solid from front to back, up and down as well as side to side.

Conventional speakers usually produce at best a narrow flat image extending from speaker to speaker.

## *Stereo Review* 1-88

"The sound of the Ohm Sound Cylinders was smooth, balanced and thoroughly enjoyable, well beyond what anyone would expect from such a small, light speaker. Its dispersion was subjectively complete, and we were never aware of the speakers as distinct sound sources, no matter how much we moved around the room...these speakers certainly offer impressive value for their price and size."<sup>3</sup>



## **Stereophile** 8-88

"...The Walsh 5 is a full-range speaker that is quite clean and images well...a Great American Speaker...one of the few dynamic speakers that my jaded electrostatic taste buds could live with...a clear Class B choice"-the highest rating any speaker has yet received.<sup>1</sup>

## **Audio** 6-88

"The Walsh 5 is one of the cleanest speakers available...I perceived remarkable depth and spaciousness to music well recorded in a concert hall. This spaciousness did not result in a vague mass of sound: image location is sharply defined and accurately placed...They are a masterpiece of the speaker designer's art."<sup>2</sup>

## **New York Times** 3-88

"...the various frequencies emerge in their natural phase relationship--more than in conventional designs. To what extent this accounts for the speakers fine sound may be debatable, yet there is no question that the Ohm Sound Cylinders represent an excellent bargain, with a clarity and richness of sound rarely found in a speaker of this size and price."<sup>4</sup>

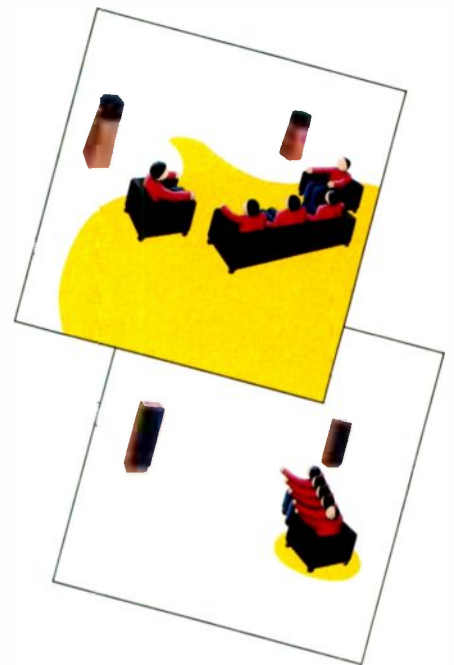
## **Audiophile File** 1-88

"This speaker is sonically invisible at most times, and only a rare few times was I able to distinguish the output of a speaker as opposed to the music field as a whole." ...This speaker is *the* most group friendly speaker I have ever auditioned, bar none...the sound stage presentation remains constant over a large area. I rate the Ohm 4XO a 'must buy'<sup>5</sup>



With Ohm speakers the stereo image spreads all across the sound stage even when you move away from the center of the room

With conventional speakers the entire performance seems to only come from the speaker nearest you.



With Ohm speakers everyone in the listening area gets full spatial fidelity.

With conventional speakers only at a small centered sweet spot can a single listener hear a decent stereo image.

## **High Fidelity** 1-88

"Ohm's smallest Sound Cylinders are a reasonable value for your dollar. That value goes up if you need a speaker that can perform well in a variety of room placements. And if your interior decorator falls to pieces at the mere mention of floor-standing loudspeakers, head straight for your Ohm dealer."<sup>6</sup>

Find out about buying, directly from the factory by calling toll free 800-221-6984

CIRCLE NO. 79 ON READER SERVICE CARD

# PINNACLE®

## Specialists in Compact Speakers



MODEL PN5+  
DIGITAL DISC COMPATIBLE  
DAT COMPATIBLE

“At lower levels the sound character of the PN5+ system was amazingly close to that of our reference speakers, which cost nearly twenty times as much!...Quite remarkable...”

*Stereo Review Magazine January 1988*

Pinnacle's entire product focus is on **quality compact speakers**. We concentrate our efforts to make the best small speakers on the market. And we do. Pinnacle engineers have developed our exclusive patent pending Diaduct™ port design. We strategically angle the port deep inside the cabinet to allow enough length for proper tuning. The result is surprisingly deep tight bass

from a small enclosure. In fact, the sound character of Pinnacle compact speakers is often mistaken for that of much larger more costly speakers. You will enjoy a full bodied musical experience from speakers as small as one foot high. Pinnacle delivers full spectrum sound in a compact format. Priced from \$169/pair at audio dealers nationally.

CALL OR WRITE FOR INFORMATION

# PINNACLE®

Specialists in Compact Speakers

517 ROUTE 111, HAUPPAUGE, NY 11788

(516) 360-9410

PINNACLE® SPEAKERS  
DESIGNED AND MANUFACTURED  
IN THE U.S.A.

© Copyright 1988 Inter-Ego Systems, Inc.  
Pinnacle® is a registered trademark of Inter-Ego Systems, Inc.



# SPEAKERS

## Arcam Three + Speaker

Solid-construction, reflex-loaded cabinets with ultra-rigid medite front baffles. Features vinyl wrap; polymer coned bass-mid range match proprietary dome tweeters via 8-element crossovers, which may be wired using separate cable runs from the amplifier to the bass/midrange and treble sections; FR 47-20,000 Hz; 50 W power handling; imp 8 ohms; optional walnut or black finish. 7.13 x 10.35 x 13.43 in. \$349/pr

## ATCLOUDSPEAKER TECHNOLOGY

### SCM-400 Speaker

Four 12" cone woofers, 3" soft dome midrange. Sens 94 dB/W/m, separate 3-way 24 dB/oct active crossover with adjustable phase, gain, crossover frequencies, and employs momentary gain reduction. \$9,000/pr  
**SCM-500.** Similar to above except two 15" cone woofers. \$8,000/pr  
**SCM-200.** Similar to above except two 12" cone woofers. \$7,000/pr

### SCM-50 Speaker

Bass-reflex floor-standing near-field studio control monitors with drivers employing soft domes, short voice coils in long magnetic gaps, high-flux density, dual suspensions, and cast frames for low distortion and high SPL. Features 9" cone woofer; 3" soft-dome midrange; 1" dome tweeter; min power 50 W rms; max power 500 W rms; sens 85 dB SPL/W/m; imp 8 ohms. Oak and black standard finishes. 28 x 12 x 16-in; 85 lb ea. \$6,000/pr  
**SCM-50A.** Similar to SCM50 except contains 3-way modified active crossover with phase correction driving 3 amps (200-W bass, 100-W mid, 50-W highs). Overload protection by active FET momentary gain reduction plus tweeter thermal protection by light distinguishing resistor (LDR). Well balanced continuous SPL of 112 dB with substantial transient headroom. 28 x 12 x 16 in; 95 lb ea. \$9,000/pr  
**SCM-100.** Similar to SCM50 except 12" cone woofer. Sens 88 dB SPL/W/m, max continuous SPL 115 dB plus transient headroom; FR 35-18,000 Hz  $\pm$  3 dB, 60-12,000 Hz  $\pm$  2 dB. 16 x 33 x 19 in; 115 lb ea. \$8,000/pr  
**SCM-100A.** Similar to SCM50A except 12" cone woofer, max continuous SPL 115 dB plus transient headroom. 16 x 33 x 19 in; 125 lb ea. \$11,000/pr

## AUDIO CONCEPTS

All Audio Concepts speakers are in kit form. Full kits include everything needed to make a speaker. All speaker drivers are from a variety of manufacturers world-wide. Refer to the 1988 Audio Concepts catalogue for more specific details.

### Super Titan 3-Way Speaker

Floor standing speaker with 2 12" woofers, dome tweeter, and 1 midrange. Power range up to 300 W rms; FR 30-20,000 Hz  $\pm$  3 dB; sens 92.5 dB W/m. 36.5 x 17 x 16.5-in. \$900/pr

### Sapphire 2-Way Speaker

Hybrid 7" woofer. Power range up to 125 W rms; FR 65-20,000 Hz  $\pm$  3 dB; sens 90 dB W/m. 36 x 13 x 12.5 in. \$670/pr

### G2 3-Way Speaker

Aperiodic 10" woofer. Power range up to 200 W rms; FR 36-20,000 Hz  $\pm$  3 dB; sens 89 dB W/m. 28 x 14 x 13-in. \$430/pr

### Pulse Subwoofer

Dual 10" subwoofer. Power range up to 200 W rms; FR 34-400 Hz  $\pm$  3 dB; sens 87 dB W/m. 18 x 14.5 x 17 in. \$416/ea

### Compact Monitor

2-way with Aperiodic 7" woofer. Features maximum

power handling 125 W rms. FR 43-20,000 Hz  $\pm$  3 dB; sensitivity 87 dB SPL/W/m. 16 x 10 x 8 in. \$400/pr

### Laser

Scaled dual 8" woofers. 3-way speaker. Power range up to 150 W rms; FR 48-20,000 Hz  $\pm$  3 dB; sens 93 dB W/m. 35 x 10 x 12.5 in. \$380/pr

### C2

Scaled 8" woofer 2-way speaker. Power range up to 100 W rms; FR 48-20,000 Hz  $\pm$  3 dB; sens 90 dB W/m. 19 x 12 x 10.5-in. \$240/pr

## AUDIO PRO BY SONIC RESEARCH

### A4-14 Bi-amplified Speaker System

Bi-amplified 3-way bass-reflex bookshelf speaker incorporates Ace-Bass subwoofer with two 5" down-firing rear-mounted woofers and own amp, flush-mounted 4.5" cone midrange, 1" soft-dome tweeter with separate amp. Features room-matching bass control, tweeter control, sens control (100 mV-50 V range), L/R signal pushbutton, bass-blend pushbutton control, power on/off signal-actuated in auto-mode; walnut or black-ash finish; speaker stands included. FR 30-20,000 Hz  $\pm$  2 dB; crossovers 300 and 2.5 kHz; distortion 2% at 96 dB SPL/half-space/m at 30 Hz; 20.5 x 2.12 x 10.5-in. \$1,950/system

### A2-2 Mini Powered Speaker

Mini speaker with Ace-Bass and Ace-Plus circuits in each channel. Includes volume control, three line inputs and tape output on amp carrying case. FR 50-20,000 Hz; sens 99 dB SPL/W/m. Glossy lacquer finish available in white, black, red or grey. 8.25 x 5.5 x 4.13-in; 22 lb. \$1,850/system

### Ace-Plus Powered Mini-Speakers

Speaker system driven by a 50 W/ch Audio Pro Ace-Plus amplifier. 4.25" woofer; .75" tweeter; FR 50-20,000 Hz  $\pm$  1.5 dB; glossy lacquer finish, white, black, red, or grey, system price includes carrying case; 8.25 x 5.5 x 4.13-in. \$1,850/system

### Amplified Subwoofers

**B4-200.** Super subwoofer features 4 long-throw 8" woofers; built-in 150-W amp giving 110 dB SPL from 20-200 Hz 1.5 dB active variable crossover; sens control; soft-clipping circuit; 44.5 x 21.5 x 21.5-in; walnut finish. \$3,295 ea  
**B2-70.** Floor-standing subwoofer with two 8" cone woofers, built-in 80-W amp, and active variable crossover. FR 20-200 Hz  $\pm$  3 dB; 103 dB SPL from 20-200 Hz  $\pm$  1.5 dB. Walnut, black ash, or white lacquer finish. 24 x 20 x 17-in; 90 lb. \$1,450/ea  
**B-145.** Floor-standing subwoofer with 10" cone woofer and built-in 40-W amp. FR 30-200 Hz  $\pm$  3 dB; 102 dB SPL from 30-200 Hz  $\pm$  1.5 dB. Walnut finish. 20.25 x 14.75 x 14.75-in; 48 lb. \$985/ea  
 Black, white lacquer finish. \$885/ea

## AUDIOSOURCE

### LS-Twelve Speaker

Floor standing/bookshelf 2-way speaker with 6.5" polypropylene woofer and 1" soft dome ferrofluid cooled tweeter. FR 40-20,000 Hz; sens 93 dB; imp 8 ohms; power capacity 90 W; available in oak veneer, black or white enamel over high density particle board with metal grille; 22.88 x 8.63 x 7.88-in; 17.5 lb. \$380/pr

### LS-Nine Speaker

Box speaker intended for bookshelf placement. Features L-C crossover at 3.5 kHz. Contains 8" polypropylene woofer; 1" tweeter. FR 65-20,000 Hz  $\pm$  3 dB; max power 80 W; sens 88 dB; imp 6 ohms; wood oak with cloth grille; 11.36 x 17.62 x 8.31-in. \$320/pr

### LS-Eleven Speaker

Compact acoustic suspension speaker with two 4" polypropylene woofers and 1" ferrofluid cooled soft

dome tweeter. Video shielding for hi-fi video applications. FR 60-20,000 Hz; sens 89 dB; imp 8 ohms; power capacity 80 W; available in oak or walnut veneer, or black or white enamel over high density particle board with metal grille. 14.5 x 5 x 5.75 in; 8.75 lb. \$260/pr

### LS-One Speaker

Acoustic-suspension 2-way speaker with 4" polypropylene woofer, 1" ferrofluid cooled soft dome tweeter. Video shielding for hi-fi video applications. FR 100-20,000 Hz; power range 12-40 W; imp 8 ohms; sens 87 dB SPL/W/m; crossover 2.5 kHz; black cast-aluminum enclosure with metal grille, available in walnut or oak veneer, or black metal or weather tight finishes; 8 x 5 x 4.69-in. \$220/pr

## B&W LOUDSPEAKERS

### 808 Ported Speaker

Floor-standing speaker with two 300-mm thermo-plastic cone woofers, two 100-mm polyamide matrix-cone midranges, 32-mm polyamide dome tweeter. Features computer-optimized drivers and cabinet; Audio Powered Overload Circuit; 4th-order Butterworth crossover; sep terminals for bi and triamping. FR 30-20,000 Hz  $\pm$  2 dB; min power 100 W; sens 91 dB SPL/W/m; imp 8 ohms; walnut, or black ash finish; 41.25 x 25.75 x 20 in; 80 lb. \$8,000/pr  
 Rosewood finish. \$9,000/pr

### Matrix 801 Series 2 Speaker

Floor standing 6th order Butterworth vented system with vertically aligned drivers to minimize time delays. APOC to prevent driver damage. FR 20-20,000 Hz  $\pm$  2 dB; imp 8 ohms; power range 50-600 W. 39.75 x 17 x 22-in; 110 lb ea. Available in walnut or black ash. \$5,000/pr  
 Rosewood finish. \$6,000/pr

### CM2 Matrix Mini Tower

Floor standing 4th order Butterworth vented system consisting of CMI head unit crossing over at 150 Hz into sub-woofer section forming the stand. B&W matrix enclosure is employed in both stand and head module. APOC system. Imp not less than 4 ohms; power range 50-200/W. 39.19 x 6.38 x 8.31-in; Base width 10 x 9.5-in d. Finish column-black, white, nextel grey, walnut. \$1,750/pr  
 Rosewood finish. \$2,100/pr

### Matrix Series 2 Speakers

All Matrix speakers feature an electronic time delay overload protection, homopolymer polypropylene bass/mid drivers, and ferrofluid-cooled tweeters. Matrix enclosure comprised of a honeycomb structure of interlocking perforated cross members bonded to the outer walls and filled with acoustic foam for resonance-free environment for drivers.

### Matrix 3 Series 2

Floor-standing speaker with two 200-mm cone woofers (one for lower bass and other for bass/mid frequencies); 26-mm polyamide tweeter; heavy magnet assemblies in mid/bass drivers (5 lb ea). FR 70-25,000 Hz  $\pm$  2 dB; min power 25 W rms; no upper power limit due to overload protection; sens 90 dB SPL/W/m; imp 4 ohms. Available in walnut and black ash finishes. 35.75 x 10.25 x 16 in; 64 lb. \$2,500/pr  
 Rosewood finish. \$2,900/pr

**Matrix 2 Series 2.** Bookshelf speaker with 200-mm cone woofer; 26-mm polyamide dome tweeter. FR 80-25,000 Hz  $\pm$  2 dB; min power 25 W; no upper power limit due to overload protection sens 87 dB SPL/W/m; imp 4 ohms. Available in walnut or black ash. 23.5 x 10.25 x 12.25 in; 35 lb. \$1,600/pr  
 Rosewood finish. \$1,900/pr  
**Matrix 1 Series 2.** Bookshelf speaker with 1500-mm cone woofer. 26-mm polyamide dome tweeter. FR 80-25,000 Hz  $\pm$  2 dB; min power 25 W; no upper power limit due to overload protection; sens 85 dB SPL/W/m; imp 4 ohms. Available in

# S P E A K E R S

walnut or black ash. 16 x 9 x 12.25-in; 35 lb \$1,200/pr  
Rosewood finish. . . . . \$1,500/pr

## Digital Monitor Series

### DM1800.

Features low density version of Matrix enclosure; finite analysis metal dome tweeter. Larger motor assembly and cabinet enclosure than DM1600. Power rating 30-200/W. 19.25 x 9.25 x 11.75-in; 26.5 lb; Black ash or walnut . . . . . \$1,200/pr

### DM1600.

Features low density Matrix enclosure; finite analysis metal dome tweeter. Power range 30-200/W. 25 x 9.25 x 16-in; 24.25lb; black ash or walnut . . . \$980/pr

### DM580

Two 200mm bass/midrange with composite short fibre cone, 26mm coil on hi-temp former. One 26mm aluminum dome tweeter. FR 38-30,000 -6 dB points. Sens 91 dB 2.83 volt. 1 m; imp 8 ohm nom; simulated veneers of oak or black ash; 34.9 x 9.3 x 16-in; 40.7 lb . . . . . \$900/pr

### CM1 Matrix Mini Speaker

Bookshelf model, molded DMC (fiberglass polyester composite) low density matrix enclosure with 5" Kevlar bass driver and new TA301 metal dome tweeter. FR 90-20,000 Hz  $\pm 2$  dB; imp 8 ohms; power range 50-200 W. 9.63 x 6.38 x 8.63-in; 11 lb ea. White black or nextel grey . . . . . \$750/pr

### DM570

One bass/midrange with composite short fibre cone, 26mm coil on hi-temp former. One 26mm aluminum dome tweeter. FR 45-30,000 Hz -6 dB points. Sens 91 dB 2.83 volts/m; imp 8 ohm nom; simulated veneers of oak or black ash; 25 x 9.3 x 11.9; 23.71 lb \$650/pr

### DM560

One bass/midrange with composite short fibre cone, 26mm coil on hi-temp former. One 26mm aluminum dome tweeter. FR 65-30,000 Hz  $\pm 2.5$  dB; sens 90 dB 2.83 volts/m; imp 8 ohm nom; simulated veneers of oak or black ash; 19.3 x 9.3 x 11.9-in; 18.7 lb \$550/pr

### LM -1 Leisure Monitor Speaker

2-way mini speaker with colored nextel finishes and protection against overload. For home and car use. Switchable for 8 or 4 ohms. Available in brown, beige, charcoal, black, or red. Min power 10 W; 4" woofer, 0.88 tweeter. . . . . \$558/pr  
LM-1/PM. Panel-mount version . . . . . \$500/pr  
LM-1/Mar. Marine version, protected against corrosion . . . . . \$658/pr  
LM-1/PM-Mar. Marine version of the LM-1, panel mount . . . . . \$600/pr

### DM550

One 160mm bass/midrange with composite short fibre cone, 26mm coil on hi-temp former, one 26mm aluminum dome tweeter. FR 70-20,000 Hz  $\pm 2.5$  dB; sens 87 dB 2.83 volts/m; simulated veneers of oak or black ash; 13.8 x 8.3 x 9.6; 12 lb . . . . . \$400/pr

## BANG & OLUFSEN

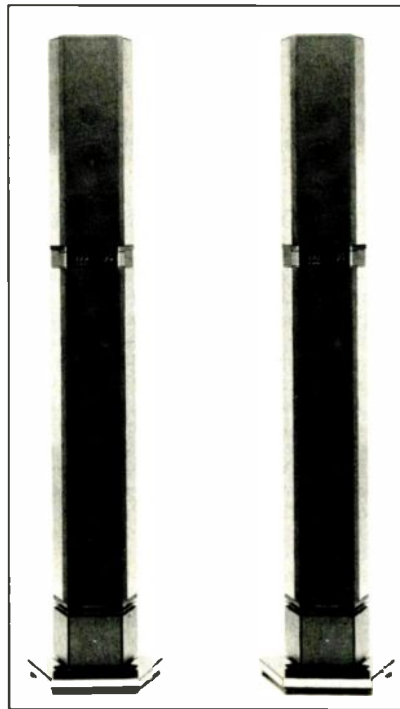
### Beolab Penta Floor-Standing Speaker

Powered 5-sided bass-reflex speaker with 150-W amp in each cabinet; 9 drivers in 3-way configuration (4 5" woofers, 4 3" mids, 1 1" dome tweeter vertically aligned); dynamic clipping attenuator for protection; 3-position bass-level switch; auto turn on and off; when used with Beosystem 5500, digital display shows source, volume, recording status, overload; finished in brushed stainless steel with black grille. FR 40-20,000 Hz +4, -8 dB; 65 x 5 x 5 in; 53 lb . . . . . \$3,295/pr

### RL 140 Speaker

Floor-standing bass-reflex speaker with 2 6.5" woofers, 5" mid, 1" dome tweeter in gray plastic enclosure

with black grille. FR 40-20,000 Hz +4, -8 dB; sens 93 dB SPL/W/m; min power 10 W; imp 8 ohms; 28 x 20 x 9 in; 43 lb . . . . . \$990/pr



*Bang & Olufsen Beolab Penta*

### Beovox S-80.2 Speaker

3-way speaker in infinite-baffle cabinet with 8" woofer, 3" dome phase-link midrange, 1" tweeter; baffle moldings designed for min diffraction; vertically aligned drivers; auto driver protection; rosewood veneer (other finishes available). Max power 80 W rms; dispersion 100x . . . . . \$770/pr

### RL 60.2 Speaker

Floor-standing speaker with 1" dome tweeter, 2 5" cone woofers, tuned port; charcoal black. FR 45-20,000 Hz +4, -8 dB; power range 10-90 W; sens 93 dB SPL/W/m; imp 8 ohms; 21.25 x 16 x 7 in; 19.6 lb . . . . . \$550/pr

### RL 35 2-Way Bookshelf Speaker

2-way bass-reflex bookshelf speaker. Features 5" woofer, .75" tweeter; nom imp 8 ohms; FR 48-20,000 Hz +4/-8 dB; sens 92 dB; crossover at 3,500 Hz; bitumen blocks on inside of curved backplate; thermoplastic cabinet. 15.75 x 12.5 x 5 in; 7.8 lb . . . . . \$380/pr

### Beovox CX100 Compact Speaker

Black, white, grey, or brushed aluminum bookshelf box speaker with 2 4" woofers, 1" dome tweeter. Power range 10-110 W; sens 89 dB SPL/W/m; imp 6 ohms; 4 x 12 x 8 in; 13.5 lb . . . . . \$380/pr  
Beovox CX50. Black finish; 8 lb . . . . . \$280/pr

## BIB

### Signature Series

SS-5001. 3-way speaker with 8" woofer, 4" midrange and 1" soft-dome tweeter. Nom imp 8 ohms; max power handling 100 W; sens 90 dB; crossovers at 850 Hz and 3,500 Hz; FR 45-20,000 Hz. . . . . \$600/pr

SS-3001. 2-way speaker with 8" woofer and 1" soft-dome tweeter. Nom imp 8 ohms; max power handling 80 W; sens 91 dB; crossover at 2,700 Hz; FR 50-20,000 Hz . . . . . \$300/pr

SS-2001. 2-way speaker with 5.25" woofer and 1"

soft-dome tweeter. Nom imp 8 ohms; max power handling 60 W; sens 80 dB; crossover at 3,500 Hz; FR 70-20,000 Hz . . . . . \$200/pr  
**Point Micro Personal Speaker System**  
Credit-card sized speakers for personal stereos. Features small tote pouch; collapsible speaker stands; waterproof. Available in yellow, red, and black \$15/pr

## BOSE

### 01 Series

#### 901 Series VI Speaker System

Direct/reflecting acoustic-matrix speaker with active equalizer and 8 rear-facing, 1 front-facing 4.5" full-range drivers. Features pentagon-shaped cabinet with multi-cell injection-molded core external panels of hardwood veneer and walnut finish; active equalizer with fixed EQ; midbass and midtreble shelf control; tape monitor switch. Power range 10 W to unlimited; imp 8 ohms; dynamic range 106 dB. Equalizer: 13 x 2.75 x 4.88 in. Speaker: 21 x 12.63 x 13 in. Price includes EQ . . . . . \$1,500/pr

#### 601 Series III Speaker System

Floor-standing Direct/Reflecting with all tweeters and one woofer mounted above main enclosure in Free Space Array configuration for lifelike stereo imaging. Features two 8" Digital Dynamic Range cone woofers; four 3" cone tweeters; subport enclosure system with slotted port. Crossover points at 1,500 and 2,500 Hz. Min power 10 W; max power 200 W; imp 8 ohms. Hardwood veneer with walnut finish. 12.31 x 30 x 12.5 in; 45 lb . . . . . \$1,026/pr

#### 501 Series IV Speaker System

Floor-standing Direct/Reflecting speaker system with two 3" tweeters mounted in Free Space array and a 10" long-excursion woofer. Features teak-grain vinyl veneer finish; power range 20-125 W continuous; nom imp 8 ohms; 25 x 16 x 14 in. Sold only in stereo pairs . . . . . \$750/pr

#### 401 Speaker System

Floor-standing Direct/Reflecting speaker system with two 6.5" woofers and a 2" magnetic liquid cooled tweeter. Features Stereo Space array design; column-design enclosure; thermal-system protection circuit; max power handling 100 W; nominal impedance 4 ohms. . . . . \$598/pr

#### 301 Series II Speaker System

Direct/Reflecting ported bookshelf speaker system with 8" woofer, two 3" tweeters in Free Space Array. Features dual-frequency crossover to allow woofer and tweeter to operate simultaneously over nearly a full octave; tweeter protection circuit; particle-board cabinet with walnut-grain vinyl veneer finish. Crossover frequencies 3 kHz woofer, 1.2 kHz tweeter; power range 10-60 W/ch continuous; impedance 8 ohms; 17 x 10.5 x 9.5 in. Sold only in stereo pairs . . . . . \$422/pr

#### 201 Series II Speaker System

Direct/Reflecting bookshelf speaker with Free Field tweeter. Features dual-frequency crossover network; 6" woofer; 2" tweeter; auto tweeter protection. Available in rosewood vinyl-veneer finish. Crossover frequencies 1.5 and 2.5 kHz; power range 5-60 W rms; imp 8 ohms; 14.5 x 7.75 x 9 in; 9 lb. . . . . \$278/pr

#### 101 Music Monitor

Indoor/outdoor ported speaker. Features high-impact polystyrene cabinet for environmental applications; 4.5" full-range driver; optional multi-purpose mounting arms and brackets available at extra cost. Power range 10-60 W; Finished in black or white with white, blue, red, or green grilles; 10 lb/pr; 9 x 6 x 5 in. Approx . . . . . \$239/pr

### .2 Series

#### 10.2 Speaker

Floor-standing ported speaker with an 8" midrange driver, two 2" tweeters and an 8" subwoofer. Features



# SPEAKERS

W; sens 88 dB; imp 8 ohms; hardwood veneer. 39 x 12 x 12; 92 lb. \$1,299/pr

## 6.2 Bass-Reflex Speaker

Bookshelf speaker with controlled-dispersion-pattern design for Stereo Everywhere. Features 8" woofer; two 3" tweeters; Stereo Targeting system; dual-chamber sub-ported bass venting system; interactive crossover network; hardwood veneer with teak finish. Min power 10 W rms; max power 100 W rms; imp 4 ohms. 20 x 10 x 9.62 in; 19.5 lb. \$599/pr

## 4.2 Bass-Reflex Speaker

Compact bookshelf speaker with Stereo Everywhere. Features 8" woofer; 2.5" axial-mounted tweeter; Stereo Targeting system; dual-chamber bass venting system with slot-port exit; auto tweeter protection circuit; vinyl veneer with teak finish. Min power 10 W rms; max power 75 W rms; imp 8 ohms. 18 x 9.5 x 10 in; 15 lb. Optional speaker stand (AS-1) available at extra cost \$419/pr

## 2.2 Stereo Speaker System

Compact bookshelf speaker with Stereo Everywhere. Features 6" long-excursion woofer; 2" magnetic-liquid-cooled tweeter; slot-port bass tuning system; teak vinyl finish. Power range 10-75 W; max power handling 60 W continuous; imp 8 ohms. 9.88 x 14.75 x 7.5 in; 12 lb. \$299

## AM-5 Acoustimass Speaker System

Compact modular system with Acoustimass bass module and Direct/Reflecting cube speaker arrays. Each array features 2 separate cube enclosures that can be adjusted for direct or reflecting configuration. The bass module has 2 6.5" drivers and a patented Acoustimass enclosure. Features positive temperature coefficient resistor to compress overloading input signals. Max input power 100 W. Cube speaker array: 3.5" per side plus grille. Bass module: 12 x 20 x 8 in. \$699/system

## Acoustimass SE-5 Stereo Everywhere System

Compact modular system with Acoustimass bass module and Stereo Targeting arrays. Each array includes two 2.5" magnetically shielded wide range drivers in a black enclosure. Bass module has two 6" subs that fire into 2 internal chambers. Features positive temperature coefficient protection circuit; high positive current coefficient resistor; 100 W max power handling. Array: 8.25 x 4.88 x 3.56 in. Bass module: 7.56 x 12.63 x 20.2 in. \$699/system

## RoomMate II Portable Powered Speaker System

Pair of speakers with built-in stereo amp to accept output of pocket stereo and portable CD player through audio cable. AC/DC compatible. 4.5" full-range driver with helical voice coils in each speaker. Features 2-stage active equalization network; distortion limiting circuitry; dual-channel power amp. Power supply 25 W transformer; fiberglass reinforced injected styrene cabinet. Sens 102 dB. 6.25 x 2.75 x 4.25 in; 10.5 lb. Black finish \$279/pr  
**Power Pack.** \$90

## Video RoomMate Powered Speaker System

Bass-reflex bookshelf speaker for use with any VCR, TV, monitor, or LaserDisc player. Features 4.5" fully shielded full-range helical-voice-coil driver; fully shielded electronic amplification/active equalization system; dual-tuned ports; 6-ft RCA cable; volume control; mono 4-connector. Grey enclosures with black baffle and silver/grey grille. 6 x 9 x 6 in \$279/pr  
**MM-2.** Mounting arms \$40/pr  
**WB-10.** Wall bracket \$20/pr

## BOSTON ACOUSTICS

### T Series Speakers

#### T1000 Series II 3-Way Speaker

Floor-standing acoustic-suspension speaker with 2 active 8" copolymer-cone woofers, 6.5" copolymer-

cone midrange in an internal subenclosure, and 1" CFT5 ferrofluid-cooled tweeter. Features tapered-grille design to eliminate sonic diffraction; tall slender enclosure for minimum floor space. oak and walnut veneers, black ash vinyl. Power range 15-150 W rms; FR 38-20,000 Hz  $\pm 3$  dB; sens 90 dB SPL/W/m; imp 4 ohms; crossover frequencies 250 and 2,500 Hz. 10.25 x 42.5 x 11.5 in. Wood veneer \$1,200/pr  
 Vinyl \$1,000/pr

#### T930 3-Way Speaker

Floor-standing acoustic suspension speaker with 10" copolymer cone woofer, 6.5" copolymer cone midrange, and 1" CFT5 dome tweeter. Features genuine walnut veneer, hand finished on 5 sides, and black ash vinyl. Power range 15-125 W/ch rms; FR 42-20,000 Hz  $\pm 3$  dB; sens 90 dB SPL/W/m; imp 8 ohms; crossovers at 250 and 2,500 Hz. 11 x 37 x 12 in. Wood veneer \$800/pr  
 Vinyl \$700/pr

#### T830 3-Way Speaker

Floor-standing acoustic-suspension speaker with 8" copolymer-cone woofer, 3.5" copolymer-cone midrange, and 1" Textlite-dome tweeter. Features wood-grain vinyl finish with charcoal grilles or black ebony vinyl with black grille. Power range 15-100 W rms; FR 45-20,000 Hz  $\pm 3$  dB; sens 88 dB SPL/W/m; imp 8 ohms; crossover frequencies 800 and 4,000 Hz. 10 x 29 x 10.5 in. \$500/pr

### Designer Series Speakers

*All Designer speakers are designed for flush mounting in walls or ceilings and come packaged ready to install. Each speaker has a matte white finish that can be painted to match room decor and a water-resistant design. Includes mounting hardware with optional brackets available for installation in new construction. Prices vary depending upon included installation costs.*

#### 360 2-Way Speaker

Flush-mount speaker with 6.5" copolymer-cone woofer and 1" CFT4 ferrofluid-cooled soft-dome tweeter. Woofer is specially designed to provide full bass without needing a special enclosure. Power range 5-60 W rms; FR 48-20,000 Hz  $\pm 2$  dB; imp 8 ohms; sens 90 dB SPL/W/m. 12.06 x 8.63 in; mounting depth 3.25 in. \$350-\$450/pr

#### 350 2-Way Speaker

Flush-mount speaker with 5.25" copolymer woofer and 1" CFT4 ferrofluid-cooled soft-dome tweeter. Power range 5-50 W rms; FR 58-20,000 Hz  $\pm 2$  dB; imp 4 ohms. 9.5 x 6.75 in; mounting depth 2.63 in. \$300-\$400/pr

### A Series Speakers

#### A150 Series III 3-Way Speaker

Acoustic-suspension speaker with 10" copolymer-cone woofer, 3.5" copolymer-cone midrange, and 1" CFT5 ferrofluid-cooled soft-dome tweeter. Features tapered-grille design to eliminate sonic diffraction. Power range 15-125 W rms; FR 39-20,000  $\pm 3$  dB; imp 8 ohms; crossover frequencies 550 Hz and 3,500 Hz. Includes black pedestal base. 32.5 x 16 x 8.36 in. Oak or walnut veneers. \$700/pr  
 Woodgrain vinyl finish \$500/pr

#### A100 Series III 2-Way Speaker

Acoustic-suspension speaker with 10" copolymer-cone woofer and 1" CFT5 ferrofluid-cooled soft-dome tweeter. Power range 15-75 W rms; FR 39-20,000 Hz  $\pm 3$  dB; crossover at 2,000 Hz; sens 90 dB SPL/W/m. Woodgrain vinyl finish with tapered charcoal grille. Includes black pedestal base. 32.5 (including base) x 16 x 8.36 in. \$420/pr

#### A70 Series II 2-Way Speaker

Acoustic-suspension bookshelf speaker with 8" copolymer-cone woofer and 1" CFT5 ferrofluid-cooled

soft-dome tweeter. Power range 15-75 W rms; FR 45-20,000 Hz  $\pm 3$  dB; crossover at 2,500 Hz; sens 90 dB SPL/W/m; imp 8 ohms. Woodgrain vinyl finish with charcoal grille. 23 x 12.5 x 8.88 in. \$320/pr

#### A60 Series II 2-Way Speaker

Acoustic-suspension speaker with 8" copolymer-cone woofer and 1" Textlite soft-dome ferrofluid-cooled tweeter. Power range 15-75 W rms; FR 52-20,000 Hz  $\pm 3$  dB; crossover at 3,000 Hz; sens 90 dB SPL/W/m; imp 8 ohms. Woodgrain vinyl finish with charcoal grille or matte black vinyl finish with back grille. 18.25 x 11.25 x 7.75 in. \$230/pr

#### A40V Series II Video Speaker

Acoustic-suspension 2-way bookshelf speaker with 6.5" copolymer-cone woofer and 0.75" ferrofluid-cooled tweeter. Features MagnaGuard magnetic shielding to allow placement near a TV or video monitor. Power range 5-50 W rms; FR 68-20,000 Hz  $\pm 3$  dB; crossover 3,500 Hz; sens 90 dB SPL/W/m; imp 8 ohms. Matte black finish with back grille. 13.5 x 8.25 x 7.25 in. \$190/pr

#### A40 Series II 2-Way Speaker

Bookshelf acoustic-suspension speaker with 6.5" copolymer-cone woofer and 0.75" ferrofluid-cooled tweeter. Power range 5-50 W rms; FR 65-20,000 Hz  $\pm 3$  dB; sens 89 dB SPL/W/m; imp 8 ohms. Wood-grain vinyl finish with charcoal grille or matte black vinyl finish with black grille. 8.25 x 13.5 x 7.25 in. \$170/pr

## BOZAK BY NEAR

#### CS-310B Concert Grand Contemporary Speaker

Three-way speaker with 4 B-199B woofers, 2 B-2098 midranges, and 8 tweeters in an array. Power range 60-350 W; imp 8 ohms. Matte walnut enclosure. 52 x 36 x 19 in. \$4,599/pr  
**CS-410C1.** Same as CS-310B except Classic cabinet. \$4,999/pr  
**CS-410M.** Same as CS-310B except Moorish styling. \$4,999/pr

#### Symphony No. 1 CS-4000A Modern Speaker

Infinite-baffle 3-way floor-standing speaker with 2 woofers, a 6.5" midrange, and 8 2" tweeters in array. Max power 250 W; crossovers 400 and 2,500 Hz at 6 dB/octave; imp 8 ohms. Walnut enclosure; 44.5 x 26.25 x 15.62 in. \$2,599/pr  
**CS-4000 CL.** Same as CS-4000A with Classic styling. \$2,899/pr  
**CS-4000 M.** Same as CS-4000A with Moorish styling. \$3,099/pr

#### Concerto V CS-302M

Infinite-baffle 3-way floor-standing. Features 1-12" woofer; 1-6" mid-range; 2-2" tweeter; max power 150 W; x-over pts 900 and 2,500 Hz; 8 ohms; walnut finish; 28 x 26 x 15 in. \$1,600/pr

#### CS-300M

Same as CS-302M but 2-way with upgrade to CS-302M available. Walnut finish. \$1,100/pr

## BSM BY LASER AUDIO

#### Series 12 MKII 4-Way Speaker

Floor-standing passive-radiator speaker with 12" polypropylene-cone passive radiator; 12" polypropylene cone woofer; 4" cone midrange; 2" cone tweeter; circuit overload protection. FR 30-20,000 Hz  $\pm 3$  dB; min power 15 W rms; max power 100 W rms; sens 94 dB SPL/W/m; imp 4/8 ohms. Ebony wood-grain finish. 15 x 41 x 11 in; 37 lb. \$320/pr

#### Series 7 MKV 3-Way Speaker

Floor-standing acoustic-suspension speaker with 12" polypropylene cone woofer; 4" cone midrange; 2" cone tweeter; circuit overload protection. FR 30-20,000 Hz  $\pm 3$  dB; min power 15 W rms; max power 100 W rms; sens 94 dB SPL/W/m; imp 4/8 ohms.

# S P E A K E R S

Ebony wood-grain finish. 15 x 27 x 11 in; 28.5 lb..... \$240/pr

### Series 4 MKV 3-Way Speaker

Floor-standing acoustic-suspension speaker with 10" polypropylene cone woofer; 3" cone midrange; 1" cone tweeter; circuit overload protection. FR 40-20,000 Hz  $\pm$  3 dB; min power 15 W rms; max power 65 W rms; sens 92 dB SPL/W/m; imp 4/8 ohms. Ebony wood-grain finish. 14 x 24 x 10 in; 18.5 lb..... \$190/pr

### Series 3 MKV 3-Way Speaker

Floor-standing acoustic-suspension speaker with 8" polypropylene cone woofer; 3" cone midrange; 2" cone tweeter; circuit overload protection. FR 48-20,000 Hz  $\pm$  3 dB; min power 15 W rms; max power 50 W rms; sens 92 dB SPL/W/m; imp 4/8 ohms. Ebony wood-grain finish. 11 x 24 x 8 in; 16 lb \$170/pr

### Series 1 Bass-Reflex Speaker

Floor-standing 2-way speaker with 8" polypropylene cone; 2" cone tweeter; circuit overload protection; FR 48-20,000 Hz  $\pm$  3 dB; min power 15 W rms; max power 50 W rms; sens 92 dB SPL/W/m; imp 4/8 ohms. Ebony wood-grain finish. 11 x 24 x 8 in; 15 lb..... \$150/pr

## CALRAD ELECTRONICS

### 20-316 Compact Bookshelf Speaker

Passive-radiator speaker with stand-alone mounts or universal mounting brackets. 4.5" low/mid driver with 1.5-lb magnet assembly; 2.5" cone-edge-radiator tweeter; 0.36"-thick wood-core cabinet. FR 53-18,000 Hz  $\pm$  3 dB; min power 3 W rms; max power 40 W rms; crossover at 2,500 Hz; imp 8 ohms. 4.62 x 7.75 x 5.25 in; 11 lb..... \$180/pr

## CAMBRIDGE SOUNDWORKS

### Ensemble by Kloss

Full speaker system consisting of 2 low-frequency units and 2 small satellite units. Each low-frequency unit features 1 8" long-throw acoustic suspension driver; cabinet is made of high-density particle board with internal bracing, and is finished in black high pressure laminate with metal grilles. Each satellite features 1 3.5" cone midrange (170 Hz to 2,300 Hz), and one 1.75" direct radiator with an integral .63" dome (2,300 Hz to 20,000 Hz); both satellite drivers are ferrofluid cooled; cabinet is high-density particle board finished in dark gray Nextel; metal grilles. Nom imp 6 ohms; power range 25-100 W. Low freq. unit size: 12 x 21 x 4.5 in. Upper freq. unit size: 5.5 x 8 x 4 in..... \$499

## CANTON

### CA 30 Active Speaker

Quad-amplified floor-standing speaker with a differential amp and motional feedback system for each driver section (120 W woofer, 100 W midrange, 100 W tweeter). Features four 260-mm cone woofers; 190-mm cone woofer; 38-mm metal-dome midrange; 25-mm titanium-dome tweeter; Darlington output stage for amps; auto on/off stabilized dual mains supply; electronically controlled protection circuitry. FR 20-30,000 Hz  $\pm$  3 dB; bandwidth 3-140,000 Hz; distortion <0.03%; s/n 100 dB. 15 x 66.5 x 16.5 in; 275 lb. Black ash or matte mahogany... \$16,500/pr Custom finish..... \$18,000/pr

### CA 20 Active Speaker

Quad-amplified floor-standing speaker with a differential amp and motional feedback system for each driver section (120 W woofer, 100 W midrange, 100 W tweeter). Features two 260-mm cone woofers; 190-mm cone woofer; 38-mm metal-dome midrange; 25-mm titanium-dome tweeter; Darlington output stage for amps; auto on/off stabilized dual mains supply; electronically controlled protection circuitry. FR 20-30,000 Hz  $\pm$  3 dB; bandwidth 3-140,000 Hz; distort

tion <0.03%; s/n 100 dB. Black-ash or matte-mahogany finish. 13.4 x 48.4 x 15.75 in; 175 lb..... \$10,000/pr Gloss black, white, mahogany, or custom \$12,000/pr

### CA 15 Active Speaker

Tri-amplified floor-standing speaker with electronic signal correction of all drivers. Features 260-mm long-throw woofer; 120-mm midrange; 25-mm titanium-dome tweeter; crossover frequencies 350/3,500 Hz; 3 separate 100 W amplifiers for bass, mid, and high frequencies; THD <0.03%. Black ash or matte mahogany..... \$6,500/pr Gloss black or white..... \$7,000

### CT 120 Floor-Standing Speaker

4-way bass-reflex speaker features 12" woofer; 8" bass/midrange; 1.5" midrange; 1" titanium-dome tweeter. Power handling 200 W continuous/350 W peak; imp 4 ohms; crossover frequencies 250/1,100/4,600 Hz. 14.2 x 47.25 x 15.6 in. Available in black and white ash, matte mahogany, custom..... \$5,000/pr

### CT 100 Floor-Standing Speaker

4-way bass-reflex speaker features 10" woofer; 6" bass/midrange; 1.5" midrange; 1" titanium-dome tweeter. Power handling 180 W continuous/300 W peak; imp 4 ohms; crossover frequencies 250/1,100/4,600 Hz. 12.6 x 41.3 x 14.1 in. Available in oak, walnut, black and white ash, matte mahogany, custom..... \$3,500/pr

### CT 90 Floor-Standing Speaker

3-way bass-reflex speaker features 10" woofer; 5" midrange; 1" titanium-dome tweeter. Power handling 150 W continuous/250 W peak; imp 4 ohms; crossover frequencies 450/4,000 Hz. 12.2 x 35.5 x 12.9 in. Available in oak, walnut, black and white ash, matte mahogany, custom..... \$2,250/pr

### CT 80 Floor-Standing Speaker

3-way bass-reflex speaker features 8.5" woofer; 5" midrange; 1" titanium-dome tweeter. Power handling 100 W continuous/150 W peak; imp 4 ohms; crossover frequencies 450/4,000 Hz. 11 x 31.5 x 11.5 in. Available in oak, walnut, mahogany, black or white ash, custom..... \$1,650/pr

### Karat 60 Bookshelf Speaker

3-way speaker features 260-mm woofer; 120-mm midrange; 25-mm titanium-dome tweeter; power handling 100 W continuous/150 W peak; imp 4 ohms. 12.4 x 22.9 x 12.5 in. Available in oak, walnut, mahogany, white, or black..... \$1,590/pr

### Karat 40 Bookshelf Speaker

3-way speaker features 220-mm woofer; 120-mm midrange; 25-mm titanium-dome tweeter; power handling 90 W continuous/130 W peak; imp 4 ohms. 10.9 x 20.1 x 10.9 in. Available in oak, walnut, mahogany, white, or black..... \$1,290/pr

### Karat 30 Bookshelf Speaker

2-way speaker features 220-mm woofer; 25-mm titanium-dome tweeter; power handling 80 W continuous/110 W peak; imp 4 ohms. 10.8 x 17 x 10.9 in. Available in oak, walnut, mahogany, white, or black..... \$890/pr

### Karat 20 Bookshelf Speaker

2-way speaker features 200-mm woofer; 25-mm titanium-dome tweeter; power handling 50 W continuous/80 W peak; imp 4 ohms. 8.7 x 13.5 x 8.2 in. Available in oak, walnut, mahogany, white, or black..... \$690/pr

### GL 300 F Speaker

Low-profile 2-way speaker acoustically tuned for wall mounting. Features 25-mm dome tweeter (fabric); long-throw 160-mm cone woofer cone. Enclosure surfaces black or white; grille of perforated steel plate; color to match enclosure; permafix spring clamps; 5-

meter connecting cable; removable grille. Nominal imp 4 ohms; nominal power handling 40/60 W; FR 48-30,000 Hz; crossover at 1,700 Hz; 12.6 x 8.66 x 3.15 in..... \$500/pr With walnut finish..... \$550/pr

### GI 260 Speaker

Weatherproof low-profile 2-way speaker with 160-mm woofer, 25-mm dome tweeter. Features wall-mounting suitability; white or black finish; perforated metal grille. 42-30,000 Hz; crossover 1,700 Hz; power range 60 W; distortion <1%; imp 4 ohms; 10.5 x 7.12 x 4.75 in..... \$490/pr

### HC 100 Speaker

Bookshelf speaker with 110-mm cone woofer, 25-mm dome tweeter. Features Permafix spring clamps; 5-m connecting cable; one-point mounting fixture; removable grille. FR 48-30,000 Hz; max power 60 W; imp 4 ohms; black, white, or bronze finish; 5.12 x 7.5 x 5.75 in; 5 lb..... \$340/pr

### Plus S Speaker

2-way bookshelf minispeaker suitable as satellite in connection with Canton Plus Beta and Plus C subwoofers. Features 110-mm cone woofer; 25-mm dome tweeter; flush wall mount; removable grille. FR 45-30,000 Hz; minimum power 20 W; max power 80 W; sens 87.2 dB SPL/W/m; imp 4 ohms. 4.72 x 8.07 x 3.94; black, white, brown finishes..... \$340/pr Walnut finish..... \$495/pr

### Subwoofers

#### Plus Beta Active Subwoofer

Floor-standing bi-amplified woofer system containing amplification for satellites and subwoofer. Features 310-mm cone woofer; signal-correction circuit; thermal overload; short-circuit protection; bass level control; adjustable crossover; adjustable input sens; auto on/off; terminals and switching for up to 4 satellite speakers. FR 20-70/90/120 Hz  $\pm$  3 dB; amp output power 140 W ea; THD <0.1%. Black, white, or walnut. 13.5 x 15 x 15 in; 50 lb..... \$2,000 ea

#### Plus C Subwoofer

Compact passive 310-mm cone subwoofer for use in connection with satellites such as Canton Plus S. FR 22-120 Hz; min power 35(2x) W; max power 75(2x) W; sens 89.9 dB SPL/W/m; imp 4 ohms. 14.7 x 13.4 x 13.8 in; 10.5 Kg; black, white, walnut finishes \$575 ea

## CARTER-CRAFT

### 40-432 Stereo Speaker System

Full, dynamic range speakers with built-in amplifier. Features DC in 4.5 V (3-C batteries - ea.); hook-up cables with 3.5 mm phone plug; 4 x 5 x 4 in; black with silver trim..... \$36

### 40-434 Mini-Tower Speaker System

Stereo speaker system features built-in amplifier 1.5 W; 4 speakers; AC adapter jack; DC-6 V (4-C batteries); hook-up cables with 3.5 mm phone plug; 2.5 x 6.5 x 3.13 in; black..... \$28

### 40-428 "Pick-Pocket" Speaker

Folding speakers for mini stereo systems. Folds up to fit in pocket or purse. Over 2' of stereo cable. Includes suede-cloth carrying case. 4 x 2.5 in folded size; 1 lb..... \$22

## CELESTION

### System 6000 Subwoofer

Double dipole low frequency array. Uses 2 12" long throw units in each of the 2 systems. Electronic section contains crossover and EQ components, with variable gain and extension controls..... \$2,700/pr

### SI.700 Speaker

2 way sealed box design, using Aerolam cabinet of 12 liter volume. 120 W program power handling and



# S P E A K E R S

using an integral stand. Metal dome tweeter and 2 part roll surround on the woofer w/stands \$3,000/pr

## SL600 Si

Two way system using a one piece metal dome tweeter and a 6" plastic bass unit. Cabinet is made from Aerolam, an aluminum honeycomb construction . . . . . \$2,000/pr

## SL12 Si

Two and a half way speaker system using a one piece metal dome tweeter and a 6" bass/midrange unit. Cabinet uses a complete figure 8 bracing and bass units have separate enclosures . . . . . \$1,500/pr

## SL6 Si

Two way system with one piece metal dome tweeter and 6" plastic bass unit. Figure 8 bass cabinet bracing and fully locked rear panel. Gold plated connectors . . . . . \$950/pr

## DL10 Series 2 - 3-Way Speaker

Bass-reflex speaker with separate midrange enclosure. 10" woofer, 6" midrange; 1.25" aluminum dome tweeter, and a 6" bass unit with integral dust cover and roll surround . . . . . \$929/pr

## DL8 Series 2 - 2-Way Speaker

Sealed cabinet speaker with 8" celoprene cone woofer and 1" metal tweeter. Designed for stand mounting, uses a figure 8 cabinet brace and is available in simulated American walnut or black finishes \$540/pr

## DL6 Series 2 - 2-Way Speaker

Sealed box design. 8" woofer and 1" metal dome tweeter. Designed for use on stands. Available in simulated American walnut and black finishes . . . . . \$430/pr

## DL4 Series 2 - 2-Way Speaker

Compact, 2 way sealed box system, using a 6" woofer and 1" metal dome tweeter. Designed for stands or bookshelf mounting . . . . . \$330/pr

## CELLO

### Amati Speaker

Compact speaker for wall, shelf, or stand mounting; available in many finishes. 27 x 20 x 10 in \$3,500/pr

## CERWIN-VEGA

### Digital Series Speaker Systems

#### D-9 3-Way Speaker System

Three-way, four-driver, floor-standing speaker with 15" woofer, dual 6" midrange and 1" tweeter. Features Helmholtz/Thiele enclosure fabricated from high-density pressed board with woodgrain vinyl finish and acoustically transparent brown stretch grille. FR 29-20,000 Hz; power range 5-350 W; sens 101 dB; imp 4 ohms; crossover frequencies 500 and 3,500 Hz; 18.0 x 35.5 x 17.75 in; 85 lb . . . \$1,050/pr

#### D-7 3-Way Speaker System

3-way tower speaker with 12" woofer, dual 6" cone distributed midrange driver in large chamber, 1" horn tweeter. Features circuit protection; midrange, tweeter level controls; FR 25-20,000 Hz  $\pm$  3 dB; crossovers 500 and 3.5 kHz; sens 98 dB SPL/W/m; max power 200 W; imp 8 ohms . . . . . \$870/pr

#### D-5 Floor/Shelf Speaker System

Floor/shelf 3-way speaker with 12" woofer, 6" cone midrange, 1" horn tweeter. Features circuit protection; tweeter level controls; FR 32-20,000 Hz  $\pm$  3 dB; crossovers 700 and 3.5 kHz; sens 96 dB SPL/W/m; max power 150 W; imp 8 ohms . . . . . \$660/pr

#### D-3 3-Way Speaker System

3-way shelf-speaker with 10" woofer, 6" cone midrange, 1" horn tweeter. Features circuit protection; midrange, tweeter level controls; FR 30-20,000 Hz

$\pm$  3 dB; crossovers 700 and 3.5k Hz; sens 94 dB SPL/W/m; imp 8 ohms; finished in hickory woodgrain vinyl w/brown stretch cloth grille . . . \$580/pr

#### D-2 2-Way Speaker System

2-way speaker system with 10" woofer in a cast aluminum frame and 1" voice coil horn. Features high-frequency protection circuit breaker; direct-radiating vented enclosure; hickory woodgrain vinyl finish with brown stretch cloth grille; FR 30-20,000 Hz; power handling min/max 5/125 W; sens 94 dB; imp 8 ohms; crossover frequency 3,000 Hz. 23.5 x 14.0 x 10.0 in; 38 lb . . . . . \$440/pr

#### D-1 2-Way Speaker System

2-way system with an 8" woofer and 1" voice-coil high frequency horn. Features resettable high-frequency protection circuit breaker; vented cabinet; hickory woodgrain vinyl with cloth grille; FR 30-20,000 Hz; power min/max 5/100 W; sens 92 dB W/m; 8 ohms imp; crossover frequency 3,000 Hz; 20.0 x 11.0 x 10.0 in; 49 lb/pr . . . . . \$340/pr

#### SW-12B Subwoofer

Vented direct radiating subwoofer compatible with most 4/8 ohm speakers. Features 12" floor facing woofer built on a die cast aluminum frame with 7 lb magnet; power range 5-125 W; sens 92 dB W/m; woodgrain vinyl veneer finish. 13.25 x 25.5 x 16.25 in; 48 lb . . . . . \$320/ea

#### AT Speaker Series

##### AT-15 3-Way Speaker

3 way bass reflex speaker includes fuse protection. Features 15" woofer; 2 5" midranges; dome tweeter; power handling capacity 5-400 W; sens 102 dB W/m; imp 4 ohms; 36.5 x 19.0 x 18.5 in; 85 lb . \$1,080/pr

##### AT-12 3-Way Speaker

Similar to above with 12" woofer; 5" midrange; power handling capacity 5-200 W; sens 97 dB W/m; imp 6 ohms; 30.0 x 16.0 x 14.0 in; 55 lb . . . . . \$690/pr

##### AT-10 3-Way Speaker

Similar to above with 10" woofer; internal self-resetting circuit breaker; power handling capacity 5-150 W; sens 95 dB; imp 6 ohms. 28.5 x 14.0 x 13.5 in; 40 lb . . . . . \$620/pr

##### AT-8 2-Way Speaker

2-way version of above with 8" woofer, dome tweeter. Features power handling capacity 5-100 W; sens 94 dB; imp 6 ohms. 21.0 x 12.0 x 10.0 in; 26 lb \$410/pr

#### SE Speaker Series

##### 380SE Floor-Standing Speaker

Floor-standing bass reflex speaker with 15" cone woofer. Features 2 7" polyolefin cone midranges; 1" VC elliptical tweeter; FR 29-20,000 Hz  $\pm$  3 dB; min power 5 W rms; max power 405 W rms; sens 102 dB SPL/W/m; imp 4 ohms; black vinyl. 36.0 x 17.5 x 19.5 in; 90 lb . . . . . \$1,080/pr

##### 300SE Floor-Standing Speaker

Floor-standing bass reflex speaker with 12" cone woofer. Features 7" polyolefin cone midrange; 1" VC horn loaded dome elliptical tweeter; FR 25-20,000 Hz  $\pm$  3 dB; min power 5 W rms; max power 255 W rms; sens 98 dB SPL/W/m; imp 6 ohms; black vinyl. 32.0 x 14.5 x 16.25 in; 65 lb . . . . . \$900/pr

##### 280SE Floor-Standing Speaker

Floor-standing bass reflex speaker with 12" cone woofer. Features 6" cone midrange; 1" VC horn loaded dome, elliptical tweeter; FR 32-20,000 Hz  $\pm$  3 dB; min power 5 W rms; max power 155 W rms; sens 96 dB SPL/W/m; imp 6 ohms; black vinyl. 25.5 x 14.5 x 11.5 in; 45 lb . . . . . \$690/pr

##### 250SE Floor-Standing Speaker

Floor-standing bass reflex passive speaker with 10"

cone woofer. Features Helmholtz Thiele acoustically dense enclosure with sound absorbent baffle; circuit breaker protection; 6" cone midrange; 1" VC horn loaded dome elliptical tweeter; FR 32-20,000 Hz  $\pm$  3 dB; min power 5 W rms; max power 125 W rms; sens 95 dB SPL/W/m; imp 6 ohms; black vinyl. 28.0 x 12.5 x 11.5 in; 41 lb . . . . . \$600/pr

#### 240SE Bookshelf Speaker

Bookshelf bass reflex speaker with 10" cone woofer. Features 1" VC horn loaded dome elliptical tweeter; FR 32-20,000 Hz  $\pm$  3 dB; min power 5 W rms; max power 125 W rms; imp 6 ohms. 25.0 x 12.5 x 11.5 in; 36 lb . . . . . \$470/pr

#### 200SE 2-Way Bookshelf Speaker

Features 8" woofer; 1" tweeter; vented tuned, direct radiating; FR 32-20,000 Hz  $\pm$  3 dB; power handling capacity 5-100 W; imp 6 ohms. 22.0 x 10.5 x 12.25 in; 32 lb . . . . . \$410/pr

## CHAPMAN SOUND

#### T9 4-Way Floor-Standing Speaker

Air-suspension speaker comes standard in bi-wired, bi-ampable configuration. 2-10" poly laminate cone woofers; 6.5" poly laminate cone midrange; 5" poly laminate cone midrange; 1" dome tweeter. FR 25-20,000 Hz  $\pm$  3 dB; min power 50 W rms; max power 500 W rms; sens 88 dB SPL/W/m; imp 2 ohms. Oak finish. 22 x 45 x 14 in; 150 lbs ea . . . . . \$3,300/pr

#### T7 3-Way Floor-Standing Speaker

Air-suspension speaker available bi-wired and bi-ampable. 10" poly laminate cone woofer, 5" poly laminate cone midrange, 1" dome tweeter. FR 30-20,000 Hz  $\pm$  3 dB; min power 50 W rms; max power 200 W continuous, 500 W peak; sens 86 dB SPL/W/m; imp 4 ohms; oak finish with black grille; 14 x 39 x 11 in; 75 lbs each . . . . . \$1,495/pr

#### T4 2-Way Bookshelf Speaker

Air-suspension box speaker available bi-wired and bi-ampable. Features 8" poly laminate cone woofer; 1" dome tweeter. FR 40-20,000 Hz 23 dB; power range 25-100 W; sens 88 dB SPL/W/m; imp 4 ohms; oak with black grille; 11 x 23 x 8 in; 35 lbs each \$760/pr

## CLEMENTS AUDIO

#### RT-7 Reference Speaker

Floorstanding speakers feature FR 28-25,000 Hz  $\pm$  3 dB; sens 87 dB/W/m; imp 7 ohm; min. power requirement 20 W; compression line bass loading; 8 high power/high output copolymer polypropylene cone woofer; 7" direct inductance planear-ribbon mid-range; cross over frequency 3000 cps; first order bass slope; copper cable; driver leads are low inductance, high purity, oxygen free cables, copper 16 guage 4-conductor; 48 x 10 x 19 in; rosewood, oak, zebra wood veneered . . . . . \$1,900/pr

#### RB-8.0 Speakers

Speakers feature 200 W/ch; FR 32-40,000 Hz  $\pm$  3 dB; sens 88 dB/W/m; max power rating 200 W; imp 6.5 ohm; compression line bass loading; 8" high power polypropylene cone woofer; 7" direct inductance planear-ribbon mid-range; crossover frequency 2000 cps; 26 x 13.5 x 15.5 in; high density fibre wood with oak veneer . . . . . \$1,495/pr

#### RB-6.5 Speakers

Speakers feature FR 38-40,000 Hz  $\pm$  3 dB; sens 87 dB/W/m; max power rating 150 W; imp 6.5 ohm; compression line bass loading; 6.5" high power polypropylene cone woofer; 7" direct-inductance planar-ribbon mid-range; crossover frequency 2000 cps; 24.5 x 13.5 x 13.25 in; high density fibre wood with oak veneer . . . . . \$1,095/pr

#### Little d's Loudspeaker system

Multi-purpose, high efficiency, loudspeaker system features FR 42-25,000 Hz  $\pm$  3 dB; sens 88 dB/W/m;

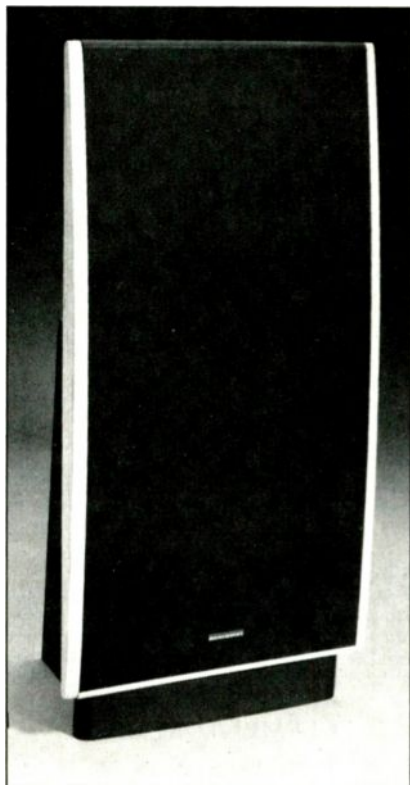
# S P E A K E R S

imp 6 ohm; max power rating 100 W; compression line bass loading; 5.25" high power/high output polypropylene cone woofer; 5" direct-inductance planar-ribbon midrange; third order woofer slope; 25 W high power rated wire wound resistors; cross-over frequency 2000 cps; 7 x 16 x 10 in; resin impregnated plastic mold .38" thick with perforated A.B.S. plastic grille-cloth covered; splatter black, lacquer white, gray, red, or black. . . . . \$850/pr

## DAHLQUIST

### DQ-20 Speaker

Three-way vertical-phase-array speaker intended for floor placement. Speaker contains 250-mm cone



woofer; 120-mm cone midrange; 20-mm dome tweeter. Min power 70 W rms; imp 4 ohms. Oak with black or white grille. . . . . \$1,800/pr

### M Series

#### M-909 Floor-Standing Speaker

Genuine wood enclosure, spaced grill with solid wood trim, flocked anti-diffraction baffle. 3-way Quasi-Phased Array; dual cast-frame woofer; 5" midrange; 1" dome tweeter. Sens 92 dB; power range 20-250 W; FR 30-24,000 Hz. 39.25 x 13.5 x 10.9 in. . . . . \$1,400/pr

#### M-907 Acoustic Suspension

Real wood walnut enclosure, spaced grille with solid walnut trim. 3 way with 10" woofer, 5" midrange, 1" dome tweeter, damped enclosure. Sens 88 dB; power range 40-150 W; FR 30-24,000 Hz. 28 x 14.5 x 12.5 in. . . . . \$940/pr

#### M-905 Tuned Port Speaker

Front-firing tuned-port speaker. Features real wood walnut or oak enclosure, spaced grille with solid walnut trim. 2-way system with cast frame 8" woofer and 1" dome tweeter. Sens 91 dB; power range 20 W min to 125 W max; imp 8 ohm. 24 x 13.5 x 12 in. . . . . \$590/pr

#### M903 Tuned Port Speaker

Front-firing tuned-port 2-way speaker. Features nom

imp 8 ohms; power range 20-70 W; 6.5" cast-frame woofer; 1" dome tweeter; FR 48-24,000 Hz; Sens 90 dB; 5-way binding posts; accepts banana plugs; 17 x 8.5 x 10.38 in; 16 lb. Available in black or oak woodgrain laminate. . . . . \$450/pr

### Speaker Accessories

#### ST-9 Speaker Stand

Non-resonant floor stand for Dahlquist M series speakers; provides rigid mounting, 3.5" upward tilt; matte black finish; capacity; 100 lb. 11.25 x 14 x 12 in; 7.5 lb; oak or walnut veneer and matte black finishes. . . . . \$80/pr

ST-10 Stand. As above for other Dahlquist speakers. . . . . \$80/pr

## dB PLUS

*All speakers have 1" dome tweeters, walnut vinyl finish, black knit grilles, and nominal impedances of 8 ohms with minimum of 4 ohms.*

#### 1212 Floor-Standing Bass-Reflex Speaker

2 12" viscous-damped cone woofers; 6.5" cone midrange. FR 23-22,000 Hz  $\pm$  3 dB; minimum power 10 W, max power 200 W; Sens 103 dB SPL/W/m; 54 lb; 36.60 x 12.24 x 11.5-in. . . . . \$1,100/pr

#### 1010 Floor-Standing Bass-Reflex Speaker

2 10" viscous-damped cone woofers. FR 25-22,000 Hz  $\pm$  3 dB; minimum power 20 W, maximum power 150 W; Sens 100 dB SPL/W/m; 45 lb; 36.6 x 12.24 x 11.5 in. . . . . \$750/pr

#### 990 Floor-Standing Passive-Radiator Speaker

10" viscous-damped cone woofer. FR 30-22,000 Hz  $\pm$  3 dB; minimum power 10 W, max power 100 W; Sens 98 dB SPL/W/m; 37 lb; 32.60 x 12.24 x 11.5 in. . . . . \$600/pr

#### 880 Bass-Reflex Speaker

10" viscous-damped cone woofer. FR 35-22,000 Hz  $\pm$  3 dB; minimum power 10 W, max power 100 W; Sens 96 dB SPL/W/m; 29 lb; 23.88 x 11.88 x 11.5 in. . . . . \$450/pr

#### 440 Bookshelf Bass-Reflex Speaker

6.5" polypropylene cone woofer. FR 45-22,000 Hz  $\pm$  3 dB; minimum power 10 W, max power 80 W; Sens 94 dB SPL/W/m; 16 lb; 15.88 x 9.5 x 9.25-in. . . . . \$350/pr

## dbx

#### Soundfield 50 Speaker

Two floor-standing vented enclosures each with 10" woofer, 6.5" midrange, 4" upper midrange, and 3 ultra-wide-dispersion 0.5" tweeters. Phased arrangement produces both measurably flat response (34-20,000 Hz  $\pm$  2.5 dB) and consistent "Listen Anywhere" stereo imaging throughout room. Sens 91 dB SPL/2.83 V/m; imp 4 ohms nominal, 2.5 ohms min; power range 40-400 W; phased-arranged crossover 200 Hz, 800 Hz, 3,150 Hz, main axis. Walnut or black base and top with matching grille wraps. . . . . \$2,000/pr

#### Soundfield 150 Speaker

3-way floor-standing vented speaker. Features 10" woofer; 4.5" midrange; 2.5" tweeters; phased-arrangement; Listen Anywhere imaging; wrap-around speaker grilles. FR 39-20,000 Hz  $\pm$  3 dB; Sens 91 dB; nom imp 4 ohms; power range 30-250 W/ch; 20.5 x 16 x 39.5 in; 60 lb. Available in charcoal grey/black or beige/walnut. . . . . \$1,500

#### Soundfield 1500 Speaker

3-way floor-standing vented speaker. Features 8" woofer; 4.5" midrange; 2.5" tweeters; phased-arrangement; Listen Anywhere imaging; wrap-around speaker grilles. FR 44-20,000 Hz  $\pm$  3 dB; Sens 92 dB; nom imp 4 ohms; power range 30-250 W/ch. 16 x 14 x 33 in; 35 lb. Available in charcoal grey/black or beige/walnut. . . . . \$1,000/pr

#### Soundfield 2500 Speaker

3-way floor-standing vented speaker. Features 6.5" woofer; 2.5" midrange; 2.5" tweeters; phased-arrangement; Listen Anywhere imaging; wrap-around speaker grilles. FR 49-20,000 Hz; Sens 90 dB; nom imp 6 ohms; power range 25-150 W/ch at 4 ohms. 12 x 8 x 29 in; 21 lb. Available in charcoal grey/black or beige/walnut. . . . . \$580/pr

## DCM

#### Time Window 3 Speaker

Folded transmission-line 3-way speaker intended for floor placement. Features time-coherent point source for more accurate off-axis sound reproduction. Adjustable high- and middle-frequency energy output, narrow to wide image spatial control; also utilizes acoustic anti-diffraction lenses. 8" cone woofer; 6.5" cone midrange; 2.75" soft-plastic-dome tweeters. FR 24-20,000 Hz; min power 10 W, max power 200 W; Sens 90 dB; imp 8 ohms; available in dark oak with dark brown fabric; 45 lb; 16.25 x 39.25 x 12.36 in. . . . . \$1,399 to \$1,499/pr

#### Time Frame TF1000 3 Way Speaker

Tapered transmission-line speaker. Mirrored image with 8" woofer, .75" soft plastic dome tweeter, acoustic anti-diffraction lens, 4" mid-frequency driver, transmission line termination. Max power rating 50 W rms pink noise continuous/300 W peak program; 8 ohm imp; Sens 91 dB W/m; 49 lb; 49 x 19.5 x 8 in. . . . . \$999 to \$1,099

#### Time Window 1A Speaker

Hybrid transmission-line speaker intended for floor placement. Improved version of original Time Window with wide-angle sound distribution, pinpoint imaging properties and high power-handling capability. Features cylindrical back and triangular-prism front. Optimized for min time-dispersion error. Contains two 6.5" cone woofers with acoustic lens; 2.75" soft plastic dome tweeter with acoustic lens. Min power 10 W, max power 200 W; Sens 91 dB; imp 8 ohms; dark oak with dark brown fabric; 32 lb; 15 x 36 x 11.75 in. . . . . \$899 to \$949/pr

#### Time Frame TF 700 Speaker

Floor-standing folded tapered transmission-line speaker with 8" cone woofer, 4" cone midrange, and .75" dome tweeter. Accurate impulse response for digital sources. FR 34-20,000 Hz  $\pm$  3 dB; min power 20 W rms; max power 250 W; Sens 90 dB SPL/W/m; imp 8 ohms. 45 x 18 x 7 in. . . . . \$799 to \$849/pr

#### Time Frame TF500 Speaker

Mirror-imaged floor-standing loudspeaker. Features 6.5" cone woofer; .75" soft-plastic-dome tweeter with acoustic lens; folded, tapered transmission-line bass loading; FR 34-20,000 Hz; power range 10-100 W; Sens 90 dB SPL/W/m; imp 8 ohms; dark oak finish; 17 x 41 x 6.75 in; 42 lb. . . . . \$599 to \$649/pr

#### Time Frame TF 350 Speaker

Floor-standing transmission-line speaker with acoustic anti-diffraction lens. Accurate impulse response for digital sources. Features a 6.5" magnetically shielded cone woofer and a .75" dome tweeter. FR 42-20,000 Hz  $\pm$  3 dB; min power 10 W rms; max power 100 W rms; Sens 89 dB SPL/W/m; imp 8 ohms. Available in dark oak/brown cloth finish. 31 lb. 37 x 15 x 7 in. . . . . \$449 to \$499/pr

#### Time Frame TF 250 Speaker

Floor-standing bass-reflex speaker with 6.5" cone woofer and .75" dome tweeter. FR 50-20,000 Hz  $\pm$  3 dB; min power 10 W rms; max power 50 W rms; Sens 89 dB SPL/W/m; imp 8 ohms. Dark oak with dark brown grille. 34 x 13 x 6 in. . . . . \$299 to \$349/pr

## DENNESEN ELECTROSTATICS

#### Dennesen Nine 3-Way Speaker

Floor-standing bass-reflex electrostatic speaker de-



# S P E A K E R S

signed for minimal edge refractions and reflections. Features electrostatic tweeter system; 8" bextrene woofer; 6.5" midrange; six 3" electrostatic tweeters. Phase corrected and time aligned. Includes separate electronic crossover for bi-amping in stereo. FR 20-35,000 Hz  $\pm$  3 dB; min power 50 W rms; max power 200 W rms; sens 89 dB; imp 8 ohms . . . . \$1,800/pr

## DESIGN ACOUSTICS

### PS-30 3-Piece Speaker System

Consists of 2 PS-5 satellites, PS-LF bass module. Satellites are low-diffraction design with 5" mid-woofer, 1" soft-dome tweeter. Bass module has 12" dual voice coil, long-throw woofer; power satellites/subwoofer 35/250 W; imp 8 ohms . . . . . \$750/set

### PS-LF Bass Module

Down-firing dual voice coil, long-throw 12" woofer with twin crossover networks at 18 dB/octave, 140 Hz. Features input for use with PS-5 satellites (below); biamp inputs for other satellites. FR to below 40 Hz; power range 15-250 . . . . . \$375/ea

### PS-5 Speaker

Acoustic-suspension 2-way miniature bookshelf speaker with 5" woofer, 1" dome tweeter. Features midrange, tweeter level controls. FR 80-16,000 Hz  $\pm$  1.5 dB; crossover 2.5 kHz; sens 85 dB; power range 15-50 W; imp 4 ohms . . . . . \$350/pr

### DA 360 All-Weather Speaker

Omnidirectional all-weather speaker. Features rust-proof heavy-duty plastic enclosures; dual driver system, white finish . . . . . \$240/pr

### Point Source Series

#### PS 103 Floor Standing Speaker

Acoustic-suspension speaker with down-firing 10" woofer housed in a separate enclosure within the cabinet. 6" midwoofer and .75" dome tweeter in the upper portion of the cabinet. Five-way binding posts will accept bare stranded cable up to 8 gauge, looped wire, banana plugs, spade lugs, and terminal pins. Cabinet is mounted on casters. Sens 88 dB SPL/W/m; power range 30-250 W/rms; imp 8 ohms. . . \$950/pr

#### PS-10 3-Way Bookshelf Speaker

Acoustic-suspension 3-way speaker with down-firing 10" long-throw woofer, 5" midwoofer, 1" soft-dome tweeter. Features tweeter level control; mirror-image driver placement; acoustically treated baffle; FR 48-20,000 Hz; crossovers 190 and 2,000 Hz; sens 90 dB; power range 15-200 W; imp 8 ohms. . . . . \$520/pr

#### PS-8b 2-Way Bookshelf Speaker

Acoustic-suspension speaker. Features 8" woofer; 1" soft-dome tweeter; mirror-image drivers; acoustically treated baffle; crossover at 2,000 Hz; FR 50-20,000 Hz; sens 90 dB; power range 15-200W . . . . \$370/pr

#### PS-6V Shielded Bookshelf Speaker

Acoustic-suspension speaker. Features 6.5" long-throw woofer; .75" soft-dome tweeter; mirror-image driver placement; acoustically-treated baffle; magnetic shielding. FR 50-20,000 Hz; power range 10-100 W; sens 88 dB; imp 8 ohms. . . . . \$280/pr

#### PS-6 Bookshelf Speaker

Two-way design features 6" woofer; 0.75" soft-dome

tweeter; FR 50-20,000 Hz; sens 88 dB SPL/W/m; power range 15-100 W. . . . . \$260/pr

## DESKTOP LOUDSPEAKER SYSTEMS

### DLS-3x Intimate Speaker System

4-piece speaker system with satellites carved from solid wood. 2 DM-2x satellites house 3.25" cone woofer, 0.75" dome tweeter, 0.15" supertweeter; 2 subwoofers house 2 7" drivers and 2 8" passive radiators. FR 38-30,000 Hz  $\pm$  3 dB; power range 20-200 W; sens 87.5 dB; imp 4 ohms. . . \$1,999/system

### DLS-2 Intimate Speaker System

4-piece speaker system with satellites carved from solid wood 2 DM-1 satellites house 3.25" cone woofer, 0.88" dome tweeter; 2 BMW-2 subwoofers house 6.5" cone driver and 2 6.5" passive radiators. FR 39-19,000 Hz  $\pm$  3 dB; power range 20-250 W; sens 87 dB SPL/W/m; imp 4.6 ohms. . . . . \$899/system

### DLS-1A Intimate Speaker System

3-piece speaker system with enclosures made of solid wood blocks carved out for crossover and drivers. 2 full-range DM-1 satellites with 3.25" cone woofer, 0.88" dome tweeter; 1 small BMW-1 subwoofer with 6.5" cone driver. FR 54-18,000 Hz  $\pm$  3 dB; power range 20-325 W; sens 86 dB SPL/W/m; imp 4.6 ohms. Available in walnut, golden oak, or teak finishes. system weight 28 lb . . . . . \$649/system

### BMW-2 Intimate Subwoofer

Floor-standing subwoofer with 6.5" cone driver, 2 8" passive radiators. FR 39-175 Hz  $\pm$  3 dB; power range

**Five years ago,  
the PS-10 got great reviews.  
It still earns them today,  
in a store near you.**

In 1983, *Rolling Stone* said, "...the PS-10 loudspeakers by Design Acoustics could be the last pair you'll ever buy." *High Fidelity* commented, "The overall sound is smooth, clean, and detailed." *Ovation* noted that the PS-10, "...provided a very open and transparent sound with excellent and stable stereo imaging." And *Stereo Review* concluded that,

"...the PS-10s deliver a smooth, balanced sound... (enabling them) to fit almost anywhere both aesthetically and acoustically."

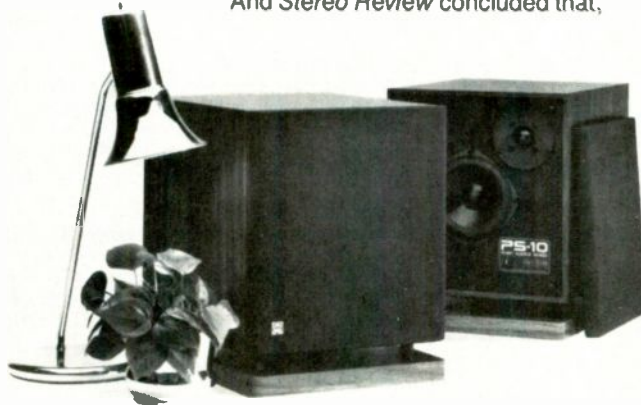
### A MODERN-DAY CLASSIC

The PS-10 continues to earn thousands of new friends with its unique Point Source™ design. The PS-10 has the smallest possible front face, to eliminate diffraction and reflections that blur the stereo image from ordinary bookshelf speakers. Plus a down-firing 10" woofer that is always exactly coupled to the room, regardless of its location.

### MEETS THE DIGITAL CHALLENGE

Over the years, the PS-10 has been constantly refined and improved. Today, it meets the challenge of digital recordings with impressive performance, yet easily fits the smallest room neatly and unobtrusively. Write for dealer list and literature today.

**DCI DESIGN<sup>®</sup>  
ACOUSTICS**  
An Audio-Technica Company  
1225 Commerce Drive, Stow, OH 44224



CIRCLE NO. 66 ON READER SERVICE CARD

# SPEAKERS

20-150 W; sens 86 dB SPL/W/m; imp 5 ohms; black finish; 9 x 9 x 9 in; 10 lb ..... \$525/pr

## DM-1 Intimate Speaker System

Bookshelf speaker of solid blockwood carved out to house parts. 3.25" cone woofer, .88" dome tweeter. FR 175-18,000 Hz  $\pm$  3 dB; power range 20-125 W; sens 85 dB SPL/W/m; imp 8 ohms; walnut, golden oak, or black; 7.5 x 4.5 x 3.5 in; 4.5 lb ..... \$300/pr

## S-1 Speaker Stand

For use with wide-screen TV, stereo TV or audio system. Phase aligned; flat black finish; invisible wiring track. 8 x 17 x 8 in; 2.2 lb ..... \$70/pr

## EMINENT TECHNOLOGY

### LFT-III Planar Doublet Speaker

Single-diaphragm Linear Field Transducer with diaphragm remaining within constant magnetic-flux field over entire displacement range; push-pull operation; soft-foil/mylar diaphragm with very thin traces and narrow gaps between each trace driven directly by amp; recommended placement at least 3 ft from rear wall; diaphragm area 580"; peak-to-peak displacement 0.2". FR 35-40,000 Hz  $\pm$  4 dB; power range 50-200 W; sens 83 dB SPL/2.83 V/m; max SPL 106 dB at 1 m; imp 4 ohms; 54 x 27 x 1.3 d; 90 lb ea \$2,700

## ENERGY

### Reference Connoisseur

2-way bass-reflex mirror-imaged speakers, matched 0.12 dB left and right. 6 different exotic matched wood veneers available. 7" polypropylene cone woofer with PVC-stitched suspension; 1.5" dual hyperdome tweeter. FR 25-20,000 Hz  $\pm$  1.5 dB off axis; sens 89 dB SPL/W/m; imp 8 ohms; power range 20-200 W; 35.36 h x 11 x 14-in.; 80 lb; priced according to finish from ..... \$1,600-\$3,300/pr

### Reference

2-way bass-reflex front-port monitors matched within 0.12 dB left and right. 7" polypropylene cone woofer with PVC-stitched suspension; 1.5" dual hyperdome tweeter; includes stands; black vinyl veneer finish. FR 34-20,000 Hz  $\pm$  1.5 dB off axis; sens 89 dB SPL/W/m; imp 8 ohms; power range 20-200 W; 24.62 x 10.5 x 12-in.; 34 lbs. .... \$1,050/pr  
**Reference Oak Designer Series.** Similar to Reference but finished in light oak and including integrated matching oak stands. FR 28-20,000 Hz  $\pm$  1.5 dB ..... \$1,300/pr

### Pro Monitor

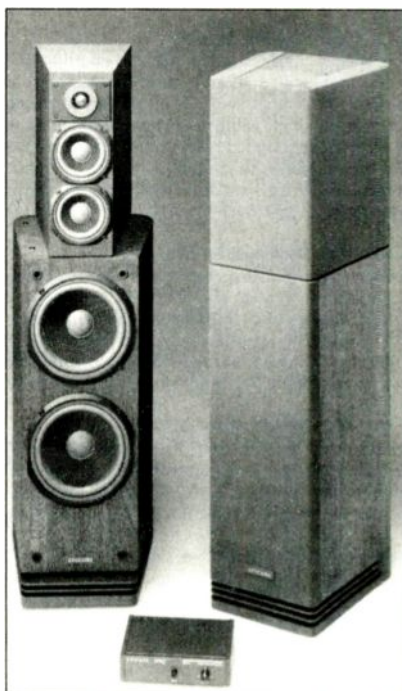
2-way bass-reflex mirror-imaged speakers matched 0.5 dB left and right. With stands. 7" polypropylene cone woofer with PVC-stitched suspension; 1.5" dual hyperdome tweeter. Walnut-grain vinyl with black sag-resistant fabric grilles. FR 28-20,000 Hz  $\pm$  1.5 dB off axis; sens 89 dB SPL/W/m; imp 8 ohm; power range 20-200 W; 24.62 x 10.5 x 12-in.; 34 lbs \$870/pr

## EPICURE PRODUCTS (EPI)

All EPI speakers have wood veneer cabinets with narrow front baffles and non-parallel side walls to minimize defraction and internal standing waves. The grilles are covered with anthracite gray cloth. The tweeters have damped polycarbonate domes and 1-inch voice coils. The bass and midrange drivers have cones made of mineral filled polypropylene which is formed with a non-concentric pattern to increase rigidity and reduce structural resonances.

### Epicure Model 1 System 4-Way Speaker

System consists of Model 1 speakers and a Speaker Placement Equalizer (SPEQ). Floor standing speakers have an electronically reinforced 8" woofer in a vented cabinet, an 8" mid-woofer in an isolated chamber. Two 4" midranges and a 1" tweeter are mounted in a separate narrow baffle cabinet. The special air-mass-loaded cabinet vent is integrated



into the cabinet base. Internally wired with Monster Cable. FR 32-20,000 Hz  $\pm$  3 dB; crossovers at 160, 500 and 2,500 Hz; recommended amplifier power 20-200 W; imp 6 ohm; 42.75 x 12 x 13-in. .... \$1,400/system

### Epicure Model 2 Four-Way Speaker

Floor standing speaker with an 8" woofer in a vented cabinet, 8" mid-woofer in an isolated chamber, 4" midrange and 1" tweeter. The air mass loaded cabinet is integrated into the cabinet base. Internally wired with Monster Cable. FR 38-20,000 Hz  $\pm$  3 dB; crossovers at 190, 500 and 2,500 Hz; power range 10-175 W; imp 6 ohm; 35.25 x 12 x 13 in. .... \$900/pr

### Epicure Model 3 3-Way Speaker

Floor standing speaker with an 8" woofer in a vented cabinet, a 4" midrange and a 1" tweeter. The air mass loaded cabinet is integrated into the cabinet base. FR 42-20,000 Hz  $\pm$  3 dB; crossovers at 500, 2,500 Hz; recommended power 10-150 W; imp 6 ohm; 30 x 12 x 13 in ..... \$700/pr

### Epicure Model 4 2-Way Speaker

Bookshelf speaker with an 8" woofer in a vented cabinet and a 1" tweeter. The flared cabinet vent is integrated into the cabinet base. FR 48-20,000 Hz  $\pm$  3 dB; crossover at 2,000 Hz; recommended power 10-100 W; imp 8 ohm; 20 x 11.75 x 12-in. .... \$450/pr

### Epicure Model 5 2-Way Speaker

Bookshelf speaker with a 6" woofer in a vented cabinet and a 1" tweeter. The flared cabinet vent is integrated into the cabinet base. FR 55-20,000 Hz  $\pm$  3 dB; crossover at 2,000 Hz; recommended power 10-75 W; imp 8 ohm; 16 x 10 x 10.5-in. .... \$350/pr

**Epicure Model 5V 2-Way Speaker.** Same as above but with vinyl veneered cabinet ..... \$300/pr

## EPOS BY MUSIC HALL

### ES 14 Speaker

8" custom-made woofer; custom-made aluminum tweeters; black ash or walnut veneer. 19.5 x 8 x 11.5 in ..... \$1,100/pr  
**Matching Stands.** ..... \$200

## ESM BY ENERGY

### ESM-1s Bass-Reflex Speaker

Mirror-imaged pair with 8" woofer; 1" ferrofluid

dome tweeter; phase-corrected crossover at 2,000 Hz; walnut or black ash vinyl; black grilles. FR 30-22,000 Hz  $\pm$  3 dB; sens 86 dB SPL/W/m; power range 1.5-120 W; nominal imp 8 ohms. min 4; 24 x 10.5 x 11-in.; 35 lb each. .... \$500/pr

**ESM-2s Bass Reflex Speaker.** Similar to above except FR 40-22,000 Hz and recommended power range from 12-100 W; 23 x 11 x 11; 24 lb ea \$400/pr

**ESM-3.** Similar to ESM-2 except FR 45-22,000 Hz; power range 10-80 W; 20 x 10 x 9-in.; 20 lb each. .... \$300/pr

**ESM-4.** Similar to ESM-3 but with 6.5" woofer; 0.75" dome tweeter. FR 60-20,000 Hz  $\pm$  3dB power range 10-80 W; 14 x 10 x 10-in.; 11 lb ea. .... \$230/pr

## ESS

### AMT Series

#### AMT-Monitor Speaker

Floor-standing passive radiator speaker with 21.5" x 21.5" Heil air motion transformer with mylar articulated diaphragm. Features 12" cone passive rad; 12" cone woofer. FR 35-23,000 Hz  $\pm$  3 dB; minimum power 35 W rms, max power 400 W rms; sens 91 dB SPL/W/m; imp 6 ohms; oiled walnut finish; 82 lb; 18.5 x 41 x 12 ..... \$1,140/pr

#### AMT ID Speaker

Floor-standing passive-radiator 2-way speaker with 12" polypropylene woofer, 12" passive radiator. Features 21.5" x 21.5" Heil air motion transformer with mylar articulated diaphragm; midrange presence, brilliance controls; oiled-walnut finish; black-brown grille. FR 35-23,000 Hz  $\pm$  3 dB; crossover 800 Hz; max power 400 W; imp 6 ohms; horizontal/vertical dispersion 120°/30° sens 91 dB SPL/W/m; 35.25 x 16.25 x 16.25 in; 85 lb ..... \$1,040/pr

#### Mini Monitor 620 Speaker

Two-way mini Bookshelf speaker. Features dynamic 5.25" long excursion woofer; 1.25" dome shape tweeter; 5" passive radiator. FR 60-20,000 Hz  $\pm$  4 dB; power range 10-60 W; sens 87 dB SPL/W/m; imp 8 ohms; oiled walnut veneer finish; 7 x 12 x 7.5 in; 16.5 lb/pr ..... \$160/pr

### Performance Series

#### PS-1220 Speaker

Floor standing passive radiator speaker system with 12" woofer. Heil air-motion transformer tweeter with 10.4" x 10.4" radiating area, dynamic 4" midrange with hi-temp voice coil. FR 28-23,000 Hz  $\pm$  1 dB at midband; sens 93 dB SPL/W/m; imp 4 ohm; power range 10-200 W; solid walnut finish ..... \$488/pr

#### PS-1020 Floor Standing Speaker

Floor standing passive radiator speaker system with 12" woofer. Heil air-motion transformer tweeter-midrange. 10.4" x 10.4" radiating area; FR 28-23,000 Hz  $\pm$  1 dB at midband; sens 93 dB SPL W/m; imp 4 ohm; power range 10-150 W; solid walnut finish ..... \$418/pr

#### PS-920 Bookshelf Speaker

Passive radiator speaker system with 8" woofer, Heil air-motion transformer tweeter-midrange with 10.4" x 10.4" radiating area. FR 38-23,000 Hz  $\pm$  1 dB at midband; sens 91 dB SPL/W/m; imp 4 ohm; power range 5-100 W; solid walnut finish ..... \$368/pr

#### PS-820 Bookshelf Speaker

Passive radiator speaker with 6" woofer, Heil air-motion transformer tweeter-midrange with 10.4" x 10.4" radiating area. FR 42-23,000 Hz  $\pm$  1 dB; sens 89 dB SPL/W/m; imp 4 ohm; power range 5-125 W; solid walnut finish. .... \$304/pr

## FISHER

### STV-440M 3-Way Speaker System

Features 15" woofer; 5" ferrofluid midrange; 3" ferrofluid tweeter; magnetic field compensated; 150 W rms max. 17.8 x 38.6 x 12.8 in. .... \$600/pr



# SPEAKERS

## STV-430M 3-Way Speaker System

Features 15" woofer; 4" ferrofluid midrange; 3" ferrofluid tweeter; magnetic field compensated; 100 W rms max. 14.3 x 36 x 12.8 in; oak vinyl veneer finish. \$400/pr

## STV-420M 3-Way Speaker System

Features 12" woofer; 4" ferrofluid midrange; 3" ferrofluid tweeter; magnetic field compensated; 100 W rms max. 14.3 x 29.7 x 12.9 in; oak vinyl veneer finish. \$320/pr

## STV-410M 3-Way Speaker System

Features 10" woofer; 4" midrange; 3" tweeter; magnetic field compensated; 60 W rms max. 12.3 x 25.7 x 10.9 in; oak vinyl veneer finish. \$200/pr

## TV/Audio Speakers

**STV8626.** 3-way bass-reflex speaker. Features 8" woofer; 4" midrange; 3" tweeter; magnetic field compensation for placement near a TV or video monitor. 50 W rms max power handling; haldwin oak vinyl veneer cabinet. 23.8 x 10.2 x 11 in; 15.5 lb. \$200/pr

**STV228.** 2-way bass-reflex speaker. Features 8" woofer; 3" tweeter; magnetic field compensation for placement near a TV or video monitor. 50 W rms max power handling; haldwin oak vinyl veneer cabinet. 18 x 10.2 x 11 in; 15.5 lb. \$160/pr

## FOCUS SPEAKER SYSTEMS

### High-Definition Tower Speaker

2-way staggered-transmission-line speaker with 3 phase-aligned drivers; 1.25" inverted Kevlar dome tweeter with 3-lb magnet; 2 8" woofers; lead-lined cabinet; cabinet made of 14-layer epoxy-pulp sleeve; internal bracing; rounded baffle; subenclosure for tweeter; solid oak bases, tops, side rails; 1st-order crossover at 1,000 Hz; crossover components matched to better than 1% tolerances; adjustable and removable spiking system. FR 35-20,000 ± 2 dB; group delay better than ± 0.2 msec; nominal imp 4 ohms, min imp 3.2 ohms; sens 92 dB SPL/W/m; power range 30-200 W/ch; 14 x 64 x 16.5 in; 115 lb. \$2,950/pr

### High Definition Monitors

Two-way, floor standing speakers. Cabinets constructed from 14-layer Pox-Pulp sleeve braced inside, wrapped with 1/4" foam on outside and capped with solid oak end pieces. Features phase aligned drivers in separate sub-enclosures to improve imaging; 1 8" woofer, 1 1.25" tweeter; FR 32-20,000 Hz ± 2 dB; sens 89 dB sound-pressure level at 1 meter with 1 W input; imp 8 ohms; amp power 30-200 W/ch; adjustable and removable spiking system directly couples speakers to any type floor; 47 x 12 x 12 in. \$1,450/pr

### .7 High-Definition Monitor Speaker

2-way computer-matched time-aligned speaker with Pox Pulp internally braced cabinet; 8" woofer; 1" dome tweeter; contoured port; hardwired crossovers. FR 37-19,000 Hz ± 2 dB; nominal impedance 8 ohms, minimum impedance 4.8 ohms; maximum power handling 150 W/ch; sensitivity 90 dB SPL/W/m; 12 x 28 x 12 in; 37 lb. \$995/pr

### .5 High-Definition Monitor Speaker

Bookshelf speaker with Pox Pulp cabinet; 8" woofer; 1" dome tweeter. FR 45-20,000 Hz ± 3 dB; nominal imp 8 ohms, min imp 4.8 ohms; power range 30-150 W/ch; sens 90 dB SPL/W/m; 12 x 19 x 12 in; 27 lb. \$750/pr

## FOSTEX

### H-1 2-Way Speaker

Bookshelf speaker system. Features patented RP tweeter which operates in piston motion; 2 8" woofers. 30 x 11 x 10 in. \$499/pr

### H-2 2-Way Speaker

Bookshelf speaker system. Features patented RP tweeter which operates in piston motion; 8" woofer. 21.5 x 9.5 x 9 in. \$399/pr

### H-1 2-Way Speaker

Bookshelf speaker system. Features patented RP tweeter which operates in piston motion; 6" woofer. 16.5 x 8 x 7 in. \$299/pr

## FRIED PRODUCTS

### G/3 3-Way Speaker

Floor-standing transmission-line speaker with series crossover networks and duocone drivers. Features full-free-flow transmission-line loading of midrange and aperiodic-design principles for linearity and dynamic range. 10" polypropylene duocone woofer; 6.5" midrange; 0.75" dome tweeter. FR 23-22,000 Hz ± 3 dB; power range 10-200 W rms; sens 91 dB SPL/W/m; imp 8 ohms. Walnut and oak finishes. 16 x 44 x 18 in; 100 lb. \$2,320/pr

### Studio IV 3-Way Speaker

"Flow-resistance" floor-standing speaker with duocone drivers and series networks. Features 8" duocone woofer; 2" duocone midrange; 1.75" dome tweeter. FR 26-22,000 Hz ± 3 dB; power range 10-1,000 W; sens 91 dB SPL/W/m; imp 8 ohms. Walnut finish. 12 x 39 x 18 in; 75 lb. \$1,350/pr

### C/3-1 2-Way Speaker

Full-transmission-line-loaded speaker for use alone or as a satellite. Features 6.5" duocone woofer; 0.75" dome tweeter; series networks; pyramid shape. FR 60-22,000 Hz ± 3 dB power range 10-250 W rms; sens 91 dB SPL/W/m; imp 8 ohms. 10.5 x 13.5 x 15.5 in; 20 lb. \$1,400/pr assembled

### R/4 3-Way Speaker

Column loudspeaker with built-in tilt back pedestal with line loading for midrange and line-tunnel loading for bass. Features 10" polypropylene woofer with vented pole piece; 5.25" polypropylene mid driver cone with vented pole piece; 1" dome tweeter with ferrofluid damping; FR 32-20,000 Hz ± 3 dB power range 25-100 W/ch; sens 90 dB; imp 8 ohms. 32 x 12 x 10.5 in; 35 lb ea. \$950/pr

### Model O/3 Subwoofer Kit

Mirror-image dual-channel subwoofer kit with transmission-line design and 10" woofer. Normal input for use with Fried satellite speakers, biamp input for use with other satellites. Response within 3 dB at 20 Hz; power range 25-200 W; fuse protected. 31 x 24.5 x 13.5 in. \$700/pr

### A/3 2-Way Speaker

Features 8" polypropylene woofer; 1" soft-dome tweeter; edge-on free-flow filters; line tunnel. FR 45-20,000 Hz ± 3 dB; power range 25-100 W; imp 8 ohms; crossover frequency 2,000 Hz; sens 89 dB SPL/W/m. 23 x 13 x 10.5 in. \$650/pr

### Q/3 2-Way Speaker

Features 8" polypropylene woofer; dome tweeter; edge-on free-flow filters; circuit-breaker protection. FR 45-20,000 Hz; minimum power 20 W; maximum power handling 100 W. Walnut or black-ash finish. 20 x 13 x 10.5 in. \$440/pr

### Beta Full-Range Speaker

Full-range speaker of mini-monitor proportions with polypropylene cones and linear crossovers. Features 6.5" polypropylene woofer; composite tweeter with 2" cone and 0.62" dome; series filter crossover; distributed bass-loading free-flow filter system. Walnut or black-ash finish. 13.5 x 8 x 8 in. \$325/pr

### Duo Subwoofer

"Flow-resistance" floor-standing subwoofer with dual-voice-coil polypropylene driver. Features 10" cone woofer. FR 30-100 Hz ± 3 dB; power range 20-200 W; sens 90 dB SPL/W/m; imp 8 ohms. Walnut or black-ash finish. \$330 ea

## GOLDSOUND

All Gold Sound speakers are kits comprised of speaker components and crossovers, grill material, damping, and 18 pages of plans and instructions.

### Kit #6

Brown sealed-enclosure speaker system features two 8" woofers; two 5.25" cone midranges; two 1.5" dome tweeters; FR 32-30,000 Hz ± 2 dB; sens 93 dB SPL; min power 5 W; crossover frequencies 60, 200 at 3,000 Hz; imp 4 ohms; optional oiled walnut. 37 x 14 x 11 in. \$799/pr

### Kit #9

Brown vented-enclosure speaker system features two 15" woofers. 7" cone midrange; horn tweeter; separate midrange control; FR 26-30,000 Hz ± 3 dB; sens 98 dB SPL; min power 5 W; crossover frequencies 60, 250 at 4,000 Hz; imp 4 ohms; optional oiled walnut. 46 x 29 x 19 in. \$798/pr

### Kit #10

Brown vented-enclosure speaker system features 15" woofer; 7" cone midrange; 1" tweeter; separate midrange and tweeter controls; FR 28-21,000 Hz ± 3 dB; sens 93 dB; min power 5 W; crossover frequencies 300 at 5,000 Hz; imp 8 ohms; optional oiled walnut. 44 x 18 x 17 in. \$1,288/pr

### 2018

Brown vented-enclosure speaker system features 18" woofer; 8" cone midrange; separate midrange and tweeter controls; FR 28-21,000 Hz ± 3 dB; sens 95 dB; min power 5 W; crossover frequencies 400, 1,400 at 5,000 Hz; imp 8 ohms; optional oiled walnut. 46 x 29 x 19 in. \$1,495/pr

### Kit #14

Brown vented-enclosure speaker system features 18" woofer; 8" cone midrange; separate midrange and tweeter controls; FR 28-21,000 Hz ± 3 dB; sens 95 dB; min power 5 W; crossover frequencies 200, 1,200 at 5,000 Hz. 46 x 29 x 19 in. \$1,988

## REUBEN GUSS ENTERPRISES

### Custom Monitor

Custom speaker system with 204 drivers in 8 enclosures. Features 24 15" woofers; 48 5" midranges; 32 1" dome tweeters; 100 custom piezos. Power range 100-900 W rms. 4 cabinets 30 x 72 x 20 in; 4 cabinets 22 x 72 x 16 in. \$100,000/system

### System 1-Guss Monitor Speaker

Floor-standing speaker system with 102 drivers in 4 enclosures. Features 12 15" cone woofers; 24 5" dome dual-diaphragm midranges; 16 1" dome tweeters; 50 custom Piezo-electric supertweeters. Controls include midrange; tweeter; rear-ambience; satellite. FR 25-25,000 Hz ± 3 dB; power range 30-600 W; sens 92 dB SPL/W/m; imp 6 ohms; walnut oak; 36 x 73 x 21 in; 375 lb, 60 lb. \$50,000/system

### System 2-Symphony Speaker System

Floor-standing speaker system with 26 drivers in 4 enclosures and 3-D Focus control. Features 4 15" cone woofers; 6 5" dome dual-diaphragm midranges; 4 1" dome tweeters; 12 custom Piezo-electric supertweeters. Controls include midrange; tweeter; rear-ambience; satellite. FR 28-22,000 Hz ± 3 dB; power range 30-300 W; sens 92 dB SPL/W/m; imp 4 ohms. Walnut and oak finishes. 2 cabinets 22 x 54 x 20 in and 28 x 25 x 8 in; 165 lb, 12 lb \$15,000/system

### System 3-Concerto Speaker System

Floor-standing speaker system with 22 drivers in 4

# S P E A K E R S

enclosures. Features 4-12" cone woofers; 6-5" dome dual-diaphragm midranges; 4-1" dome tweeters; 8 custom Piezo-electric supertweeters. Controls include midrange; tweeter; rear-ambience; and satellite. FR 30-22,000 Hz  $\pm$  3 dB; power range 30-300 W; sens 92 dB SPL/W/m; imp 4 ohms. Walnut and oak finishes. 2 cabinets 22 x 54 x 20 and 28 x 25 x 8 in; 150 lb. 12 lb. .... \$9,000/system

## System 4-Sonata Speaker

Floor-standing speaker system with 12 drivers in 4 enclosures. Features 2-12" woofers; 2-5" dome dual-diaphragm midranges; 6 custom Piezo-electric supertweeters. Controls for midrange; tweeter; satellite. FR 32-22,000 Hz  $\pm$  4 dB; power range 30-200 W; sens 90 dB SPL/W/m; imp 4 ohms; walnut and oak; 17 x 28 x 15 in; 70 lb, 4 lb .... \$4,000/system

## HARTLEY PRODUCTS

### The Reference

Floor-standing 4-way speaker system with 24" super-woofer, 10" midrange, two 7" tweeters. Crossovers 125, 3,000, 8,000 Hz; FR 16-25,000 Hz; power range 25-300 W; imp 5-8 ohms; wood cabinet with removable knit grille; 50.25 x 36 x 24 in. .... \$5,195/pr

### The Concertmaster

Floor-standing 4-way speaker system with 18" woofer, 10" midrange, two 7" tweeters. Crossovers at 125, 3,000, 8,000 Hz; FR 16-25,000 Hz; power range 25-300 W; imp 5-8 ohms; wood cabinet with removable black grille; 41.5 x 29 x 18 in. .... \$3,995/pr

### SPL-1 System

Includes 2 SW-10 bass modules, ST-4 phasor arrays, tilt stands for SW-10, aluminum adjustable stands for ST-4, mounting screws, stereo crossover, Allen key. All parts have hand-rubbed walnut veneers; black knit grilles. FR 25-25,000 Hz  $\pm$  3 dB.

SW-10. Aligned air-column subwoofer with 10" woofer with 1" high-temperature dual voice coil, polymer cone, magnetic suspension, EFM magnet; 3" polymer cone midrange, magnetic suspension, with two 3" air columns; imp 6 ohms; power range 15-100 W rms.

ST-4. Polar-aligned phasor with phasor-array super-tweeter; imp 8 ohms; power range 15-150 W rms; 12 x 5 x 5 in. .... \$1,700/system

### The Reference Mini-Tower

Floor standing 2-way speaker with two 6.5" thermo-plastic woofers with high temperature voice coils and heat sinks. Features 1" hybrid dome tweeter; crossover 3,100 Hz; power range 5-150 W; imp 4 ohms; FR 32-25,000 Hz; oak veneered cabinet with removable knit grille; 32.5 x 11.5 x 12 in. .... \$600/pr

## HECO OF AMERICA

### SAT 6000 Bookshelf Speaker

Acoustic-suspension speaker with low-loss crossover for amplitude and phase-response correction. Features 4.12" cone woofer; 1" metal-dome tweeter. FR 80-32,000 Hz  $\pm$  3 dB; max power 50 W rms; sens 87 dB SPL/W/m; imp 4 ohms; crossover point at 2,200 Hz with 12 dB/octave slope. Black metallic finish. 5.75 x 8.25 x 5.12 in; 5.5 lb. .... \$300/pr

### D6300 2-Way Speaker

Bookshelf acoustic-suspension speaker with 4.12" cone woofer and 1" metal-dome tweeter. FR 80-3,200 Hz  $\pm$  3 dB; max power 50 W rms; sens 87 dB SPL/W/m; crossover point at 2,000 Hz with 12 dB/octave slope. Black metallic finish. 8.12 x 4.5 x 4.75 in; 7.25 lb. .... \$300/pr

### Subwoofers

#### Sub 6000 Compact Subwoofer

Floor-standing subwoofer with auto or manual turn on/off. Driven by 90-W amp and includes two 60-W amps to drive satellite speakers. Features 10" cone

woofer; adjustable input sens and bass level. FR 25-120 Hz  $\pm$  3 dB; max power 90 W rms; sens 90 dB SPL/W/m; crossover slopes 24 dB/octave for sub-woofer, 12 dB/octave for mids and highs fixed at 120 Hz. Available in black metallic finish. 11 x 11 x 12 inches; 22 pounds. .... \$665 ea

## HEYBROOK BY D'ASCANIO AUDIO

### HB-3 3-Way Speaker

Hand-assembled acoustic-suspension speaker with 10" doped-cone woofer; 4.5" doped-cone midrange and 0.75" soft-dome tweeter; removable rear panel for bi- and tri-amping. FR 35-20,000 Hz  $\pm$  3 dB; power range 15-200 W. Real walnut, or gloss-black finish. 25 x 13.36 x 11.36 in; 46 lb. .... \$1,498/pr

### HB-200 2-Way Speaker

Dual-reflex-tuned speaker with 6.5" woofer and metal-dome tweeter. Features FR 34-22,000 Hz; sens 88 dB; nom imp 8 ohms; power range 15-100 W; 18 x 11 x 9. Black ash or walnut. .... \$999/pr

### HB-150 2-Way Speaker

Dual-reflex-tuned speaker with 6.5" woofer and metal-dome tweeter. Features FR 40-22,000 Hz; sens 88 dB; nom imp 6 ohms; power range 15-100 W. 16 x 9 x 9 in. Black ash or walnut finish. .... \$799/pr

### HB-100 2-Way Speaker

Infinite-baffle speaker with 8" woofer and metal-dome tweeter. Features FR 50-20,000 Hz; sens 89 dB; nom imp 8 ohms; power range 15-100 W; 19 x 11 x 10 in. Black or woodgrain finish. .... \$599

### HB-1 2-Way Speaker

Hand-assembled acoustic-suspension bookshelf speaker with 8" doped-cone woofer; 1" dome tweeter. Features removable rear panel for biamping. FR 42-20,000 Hz  $\pm$  3 dB; imp 8 ohms; power range 10-75 W; sens 89 dB SPL/W/m. Walnut vinyl or gloss-black finish. 18.75 x 11.5 x 9.25 in; 19 lb. .... \$399/pr

### POINT SEVEN 2-Way Speaker

Infinite-baffle speaker with 6.5" woofer and metal-dome tweeter. Features FR 45-24,000 Hz; sens 87 dB; nom imp 6 ohms; power range 15-75 W; 16 x 9 x 9 in. Black finish. .... \$399/pr

### POINT FIVE 2-Way Speaker

Hand-assembled infinite-baffle bookshelf speaker with 6.5" doped-cone woofer; .75" dome tweeter; structurally-rigid cabinet. FR 50-20,000 Hz  $\pm$  3 dB; power range 15-75 W; sens 87 dB; nom imp 6 ohms. 14 x 9 x 9 in. Black finish. .... \$299/pr

## HITACHI

### HISA4040 3-Way Tower Speaker

12" woofer; 3" midrange; 2" tweeter; 12" passive radiator in rear; max power 120 W; wood cabinet; detachable grille cloth. .... \$300/pr

### HISA3050 3-Way Tower Speaker

10" woofer; 3" midrange; 2" tweeter; max power 60 W; detachable grille cloth. .... \$250/pr

### HISA2028 2-Way Tower Speaker

Bass reflex; 8" woofer; 2" tweeter; max power 30 W; wood cabinet. .... \$150/pr

## IMAGE

*All speakers have nominal impedances of 6 ohms, with minimum impedance of 4 ohms, and black grilles.*

### Concept 200 Ported Speaker

2 6.5" woofers; 0.75" damped hyperbolic cotton dome tweeter; crossover at 2,100 Hz; Italian black walnut vinyl. FR 30-23,000 Hz  $\pm$  2 dB; sens 87 dB; power range 35-200 W; 43 x 10 x 15 in. .... \$1,000/pr

### Concept 100 Ported Speaker

6.5" woofer; 0.75" damped hyperbolic cotton dome tweeter; crossover at 2,100 Hz; Italian black walnut vinyl. FR 45-23,000 Hz  $\pm$  2 dB; sens 87 dB SPL/W/m; power range 35-100 W; 16 x 9 x 11; 23 lb each \$600/pr

### Reference Two Ported Speaker

8" polypropylene damped woofer; 1" polyester soft-dome tweeter; crossover at 2,100 Hz; lagos hickory vinyl. FR 35-20,000 Hz  $\pm$  3 dB; sens 88 dB SPL/W/m; power range 20-100 W; 24 x 11 x 12; 31 lb each. .... \$450/pr

### Reference One Ported Speaker

8" polypropylene damped woofer; 0.75" polyester soft-dome tweeter; crossover at 2,500 Hz; lagos hickory vinyl. FR 40-20,000 Hz  $\pm$  3 dB; sens 89 dB SPL/W/m; power range 20-100 W; 19 x 10 x 9; 20 lb each. .... \$350/pr

### Reference .5 Ported Speaker

6.5" polypropylene damped woofer; 0.75" polyester soft-dome tweeter; crossover at 2,500 Hz; lagos hickory vinyl. FR 45-20,000 Hz  $\pm$  3.5 dB; sens 87 dB SPL/W/m; power range 20-75 W; 16 x 10 x 9; 15 lb each. .... \$250/pr

## INFINITY

### IRS Series V Reference Speaker

Modular 4-piece 3-way floor-standing speaker. Features 2 woofer modules with six 12" woofers in feedback loop of servo amp (2 1,800-W woofer amps); 2 midrange/tweeter modules with 12-dipole midrange drivers; 36 tweeters in dipole line-source array (24 front/12 rear-facing); bass variable low-pass filters; low-pass variable damping; woofer level controls; selectable input imp midrange/tweeter amp control; woofer phase switch; servo bass on/off circuit; Monster Cable wiring for midrange and woofer. FR 16-40,000 Hz  $\pm$  2 dB; crossovers 70 Hz nominal, 60-120 Hz at main control unit woofer/midrange, 5,000 Hz midrange/tweeter; midrange/tweeter amp input range 100-500 W/ch; oiled and "Grand Piano" indian rosewood finish; 100-ft cable for hookup of midrange/tweeter to midrange/tweeter amp. Woofer modules: 76" h x 18" square; midrange/tweeter modules 76" h x 40" w (with hollow and sand-filled curved wing sections) .. \$50,000/system

### IRS Series

#### IKS Beta Speaker

Includes (per side) four 12" woofers with servo-controlled polypropylene/graphite fiber injection molded cones; 2 upper bass/midrange (70 Hz-60 kHz) planar push-pull drivers which act as a dipole; low-mass EMIT with neodymium magnets for upper midrange; low mass/neodymium EMIT's from IRS V (in a dipole configuration) for the lower treble; SEMIT (a smaller aperture EMIT) which extends response beyond 44 kHz. The system operates in a bi-amp mode and includes the IRS V servo control unit. .... \$10,500

IRS Gamma. Similar to Beta with 2 woofers and 1 upper-bass midrange. .... \$6,950

IRS Delta. Similar to Gamma with accelerometer servo system. .... \$5,500

### Kappa Series

#### 9 Kappa Reference Standard Speaker

5-way design features 2 12" cast frame L/C tuned woofers; SEMIT K supertweeter; rear-firing EMIT K tweeter; 3" polydome rear radiator; polygraph K composite polypropylene/graphite 5" mid-bass dome; 3" edgewound polydome K midrange; internal crossovers; bi-ampable; oak solids and veneer with high-density particle board with a furniture-grade lacquer finish. FR 29-45,000 Hz  $\pm$  3 dB; crossover frequencies 80, 800, and 4,500 Hz; power rating 60-340 W/rms; sens 89 dB; imp 4-6 ohms. 59.5 x 21.5 x 8 in. .... \$2,898/pr



# SPEAKERS

## 8 Kappa Speaker

4-way design similar to 9 Kappa without supertweeter, rear-firing tweeter and radiator, and 1 woofer. FR 33-45,000 Hz  $\pm$  3 dB; power rating 50-250 W/rms; sens 89 dB SPL/W/m; imp 4-6 ohms. 47.5 x 20.5 x 8 in. .... \$1,998/pr

## 7 Kappa Speaker

3-way design similar to 8 Kappa with 12" woofer, 3" polydome K midrange, and EMIT K tweeter. Power rating 40-200 W/rms; FR 37 Hz-45,000 Hz. 37 x 17 x 12 in. .... \$1,398/pr

## 6 Kappa Speaker

3-way design similar to 7 Kappa except the woofer is 10". Power rating 30-150 W/rms; FR 39 Hz-45,000 Hz. 25 x 15 x 10.5 in. .... \$998/pr

## SM Speaker Series

### SM 150 3-Way Speaker

floor-standing bass-reflex speaker with 15" cone woofer, 2-4.5" midranges, and 1" polycell dome tweeter. FR 29-27,000 Hz  $\pm$  3 dB; minpower 10 W/rms, max power 300 W/rms; sens 101 dB SPL/W/m; imp 8 ohms; rosewood vinyl; 19 x 39.5 x 12.5 in. .... \$1,118/pr

### SM 120 3-Way Speaker

Floor-standing bass-reflex speaker with front-mounted high- and mid-level controls. Features contains 12" cone woofer; 4.5" cone midrange; 1" polycell-dome tweeter. Min power 10 W/rms, max power 200 W/rms; sens 98 dB SPL/W/m; imp 8 ohms; rosewood vinyl; 15.75 x 33.25 x 12.5 in. .... \$798/pr

### SM 100 2-Way Speaker

Floor-standing bass-reflex speaker with 10" cone woofer and 1" polycell-dome tweeter. Min power 10 W/rms, max power 150 W/rms; sens 98 dB SPL/W/m; imp 8 ohms; rosewood vinyl; 14 x 29.5 x 12.5 in. .... \$558/pr

## RS Speaker Series

### RS 6000A 3-Way Speaker

Features 2 10" cone woofers, 2" dome midrange, EMIT planar tweeter. FR 41-44,000 Hz  $\pm$  3 dB; sens 89 dB SPL/W/m; min power 35 W rms; max power 200 W rms. 15 x 37 x 10 in. .... \$938/pr

### RS 5000A 3-Way Speaker

Acoustic-suspension speaker with 10" cone woofer, 3.5" cone midrange, and EMIT planar tweeter. FR 42-32,000 Hz  $\pm$  3 dB; min power 20 W rms, max power 135 W rms; sens 89 dB SPL/W/m; imp 6 ohms; oak vinyl; 15 x 24 x 10.25 in. .... \$638/pr

### RS 4000A 3-Way Speaker

Bookshelf acoustic-suspension speaker with 8" cone woofer, 3.5" cone midrange, and EMIT planar tweeter. FR 44-32,000 Hz  $\pm$  3 dB; min power 20 W rms, max power 125 W rms; sens 89 dB SPL/W/m; imp 6 ohms; oak vinyl; 12.5 x 22.5 x 10.25 in. .... \$498/pr

### RS 3000 2-Way Speaker

Bookshelf acoustic-suspension speaker with 8" cone woofer and 1" polycell dome tweeter. FR 45-22,000 Hz  $\pm$  3 dB; min power 20 W rms; max power 100 W rms; sens 89 dB SPL/W/m; imp 6 ohms; oak vinyl; 12 x 20.75 x 10.25 in. .... \$358/pr

### RS 2000 2-Way Speaker

Bookshelf acoustic-suspension speaker with 6.5" cone woofer and 35 mm polycell dome tweeter. FR 57-22,000 Hz  $\pm$  3 dB; min power 15 W rms; max power 75 W rms; sens 89 dB SPL/W/m; imp 6 ohms; oak vinyl; 8.8 x 14.25 x 7.75 in. .... \$230/pr

### RS 1000 2-Way Speaker

Bookshelf acoustic-suspension speaker 4.5" cone woofer and 35 mm polycell dome tweeter. FR 72-22,000 Hz  $\pm$  3 dB; min power 8 W rms; max power 50

W rms; sens 89 dB SPL/W/m; imp 6 ohms; oak vinyl; 7.5 x 12.75 x 6.75 in. .... \$170/pr

## INTERNATIONAL COMPONENTS

### BHP-1062 2-Way Mini-Speaker System

Heavyweight 2-way mini speaker system features 5.25" long-throw aluminum voice coil woofers with 30 oz magnet structure; 1" true audiophile soft-dome tweeters with 15 oz magnet structure; electronic L/C crossover networks; imp 8 ohm; recessed, quick-connect speaker terminals; FR 50-21,000 Hz; fully shielded; circuit breaker protected; black, snap-on, open weave grilles; simulated walnut wood enclosures. .... \$139

### MS-500AV Mini Amplified Stereo Speakers

Pocket-sized acoustic suspension speaker system with power booster for mini-stereo cassette players and recorders. Uses 4 penlite batteries or DC 6V power supply, not included. .... \$32

## JAMO

### Concert V Floorstanding Loudspeaker System

3-way bass reflex speaker. Features 6.5" woofer; 1" dome tweeter; continuous power 110 W; peak power 160 W; sens 93 dB/W/m; FR 30-22,000 Hz  $\pm$  3 dB; cross-over frequencies 150/3500 Hz; imp 6 ohms; overload protection; 24K gold-plated binding posts; 31.5 x 14 x 11 in; 42 lb; mahogany or stained black ash. .... \$1,396

### Concert II Bookshelf Loudspeaker System

2-way bass reflex speaker. Features 6.5" woofer; 1" dome tweeter; continuous power 80 W; peak power 120 W; sens 91 dB/W/m; FR 40-20,000 Hz  $\pm$  3 dB; cross-over frequency 2000 Hz; imp 8 ohms; overload protection; 24K gold-plated binding posts; 16 x 9.5 x 10 in; 20 lb; mahogany or stained black ash. .... \$798

### Digital Monitor Series

All Jamo Digital Monitor speakers feature Jamo's Center Bass Reflex technology for increased sound pressure at low frequencies and decreased sound coloration, phased-aligned drivers, anthracite finish, and detachable grilles.

**Digital 200.** 3-way speaker with 10" woofer, 5" midrange, and 1" dome tweeter. Features treble and midrange sound pressure control; treble overload diode. Peak power 300 W; continuous power 200 W; sens 92 dB SPL/W/m; FR 20-24,000 Hz  $\pm$  3 dB; crossover frequencies 540 and 3,800 Hz; imp 8 ohms. 32.25 x 15.75 x 13.75 in; 53 lb. .... \$1,198/pr

**Digital 130.** 3-way speaker with 8" woofer, 4" midrange, and 1" dome tweeter. Features treble sound pressure control; treble overload diode. Peak power 180 W; continuous power 120 W; sens 91.2 dB SPL/W/m; FR 30-22,000 Hz  $\pm$  3 dB; crossover frequencies 890 and 4,900 Hz; imp 8 ohms. 27.5 x 13.75 x 11.75 in; 37.5 lb. .... \$798/pr

**Digital 100.** 3-way speaker with 6.5" woofer, 4" midrange, and 1" dome tweeter. Features treble sound pressure control; treble overload diode. Peak power 130 W; continuous power 90 W; sens 90 dB SPL/W/m; FR 35-20,000 Hz  $\pm$  3 dB; crossover frequencies 960 and 5,000 Hz; imp 8 ohms. 23.5 x 11.75 x 9.75; 24 lb. .... \$598/pr

### Professional Series

All Jamo Professional Series 3-way speakers are bass reflex and incorporate Jamo's proprietary Controlled Dispersion treble array of multiple horn-mounted tweeters. All Professional Series speakers feature VLR connection sockets and screwed terminals for large cables; removable wire-mesh grilles; black finish; reinforced corners, and a self-locking fixture for easy stacking.

**Professional 400.** Features 15" woofer; 5" horn midrange; 5-1" horn tweeters. Peak power 560 W; continuous power 400 W; sens 95 dB SPL/W/m; FR 25-20,000 Hz  $\pm$  3 dB; crossover frequencies 900 and

4,000 Hz; imp 8 ohms; max sound pressure 121 dB. 35.5 x 20.5 x 16.75; 92.6 lb. .... \$1,800/pr

**Professional 300.** Features 12" woofer; 5" horn midrange; 3-1" horn tweeters. Peak power 420 W; continuous power 300 W; sens 94 dB SPL/W/m; FR 30-20,000 Hz  $\pm$  3 dB; crossover frequencies 1,000 and 5,000 Hz; imp 8 ohms; max sound pressure 118 dB. 29.5 x 17.33 x 13.33; 57.3 lb. .... \$1,200/pr

**Professional 200.** Features 10" woofer; 5" horn midrange; 1" horn tweeter. Peak power 280 W; continuous power 200 W; sens 93 dB SPL/W/m; FR 35-20,000 Hz  $\pm$  3 dB; crossover frequencies 1,200 and 6,000 Hz; imp 8 ohms; max sound pressure 116 dB. 25.6 x 14.75 x 11.5; 42 lb. .... \$800/pr

### SW-50/Monitor One Subwoofer/Satellite Package.

Consists of the SW-50 (below) Subwoofer and Monitor One Satellite System. Monitor One features 5" midrange/woofer; 1" dome tweeter; sens 87 dB/W/m; FR 42-20,000 Hz; crossover points 3.5 kHz; imp 8 ohms; subwoofer dimensions 15.5 x 13 x 13 in; satellite dimensions 10.25 x 6.66 x 8.5 in; 11 lb. .... \$819.95

**SW50 Active Subwoofer.** Subwoofer/satellite package features 10" woofer; 80 W peak power; 55 W continuous power; FR 50-150 Hz; cross-over points 65-150 Hz (continuously variable); imp 47K ohms; overload LED; 26.5 lb. .... \$499.95

### Art Wall Loudspeaker System

2-Way, flat panel, wall-hanging loudspeaker which works as full-range or satellite unit. Features 5" woofer; 1" dome tweeter; peak power 90 W; continuous power 60 W; sens 88 dB/W/m; FR 40-20,000 Hz  $\pm$  3 dB; cross-over frequencies 3,000 Hz; imp 8 ohms; overload protection; 13.8 x 15.7 x 3.5 in; 10.6 lb; neutral-black and white lacquer finishes. .... \$400/pr

### Magic Series

#### Magic 14 3-Way Speakers

3-way bass reflex system. Features 10" woofer; 3.5" midrange; 1" dome tweeter; max power 200 W; FR 40-20,000 Hz; cross-over frequencies 1200/1400 Hz; imp 8 ohms; 20.8 x 12 x 8.6 in. .... \$499/pr

#### Magic 10 3-Way Speakers

3-way bass reflex system. Features 8" woofer; 3.25" midrange; 1" dome tweeter; max power 140 W; FR 43-20,000 Hz; crossover frequencies 1500/4000 Hz; imp 8 ohms; 18.8 x 11 x 8.64 in. .... \$399/pr

#### Magic 8 3-Way Speakers

3-way bass reflex system. Features 6.5" woofer; 2" midrange; 1" dome tweeter; max power 120 W; FR 47-20,000 Hz; crossover frequencies 1500/5000 Hz; imp 8 ohms; 16.6 x 9.6 x 8.6 in. .... \$299/pr

#### Magic 6 3-Way Speakers

3-way bass reflex system. Features 5" woofer; 2" midrange; .75" tweeter; max power 90 W; FR 55-20,000 Hz; crossover frequencies 4000/8000 Hz; imp 8 ohms; 12 x 7.52 x 8.4 in. .... \$199/pr

### Compact Line Series

**C120.** Bookshelf 3-way bass-reflex speaker with 8" dual-magnet woofer, 5" midrange, and 1" dome tweeter. FR 38-20,000 Hz  $\pm$  3 dB; peak power 140 W; continuous power 120 W; sens 92 dB SPL/W/m; crossover frequencies 1,200 and 5,000 Hz; imp 8 ohms. Black or white finish. 16.5 x 10.25 x 8.75; 14.3 lb. .... \$338/pr

**C90.** Bookshelf 3-way bass-reflex speaker with 8" cone woofer, 3.25" cone midrange, and 1" dome tweeter. FR 40-20,000 Hz  $\pm$  3 dB; peak power 120 W; continuous power 90 W; sens 91.6 dB SPL/W/m; crossover frequencies 1,200 and 4,000 Hz; imp 8 ohms. Black or white finish. 14.5 x 9 x 8.75 in; 11 lb. .... \$278/pr

**C70.** Bookshelf 2-way bass-reflex speaker with 6.5" woofer and 1" dome tweeter. FR 45-20,000 Hz  $\pm$  3 dB; peak power 90 W; continuous power 70 W; sens 90 dB SPL/W/m; crossover frequency 2,500 Hz; imp 8

# S P E A K E R S

ohms. Black or white finish. 12 x 7.5 x 8.25; 8.4 lb. .... \$198/pr  
**C60**, Bookshelf 2-way bass-reflex speaker with 4" cone woofer and 2" cone tweeter. FR 70-20,000 Hz  $\pm$  3 dB; peak power 60 W; continuous power 50 W; sens 89 dB SPL/W/m; crossover frequency 2,600 Hz; imp 4 ohms. Black finish; 6.5 x 4 x 6.75 in; 2.9 lb. .... \$159/pr

### SW1 Subwoofer/Satellite Loudspeaker System

Features 2-8" bass drivers; push-pull/passive subwoofer; 4" midrange and 2" tweeter satellite drivers; peak power 140 W; continuous power 80 W; sens 90 dB/W/m; FR 35-20,000 Hz  $\pm$  3 dB; crossover frequencies 200 Hz/4.5 kHz; imp 8 ohms; overload protection; subwoofer 19 x 13.3 x 8 in; satellite 6.5 x 4 x 6.66 in; system 28.6 lb. .... \$449

## JBL

### Everest DD55000 3-Way Speaker

Features constant-directivity design; 15" woofer in a vented enclosure; defined-coverage horn-loading midrange; bi-radial constant-coverage horns; ultra-high-frequency slot-loaded ring radiator; mylar capacitors; aircone inductors; polystyrene and polypropylene bypass capacitors; 3 position switches to vary output levels of compression driver and ring radiator; mid-bass attenuator; high-density compressed wood; Rosewood veneer. Power range 40-250 W; imp 8 ohms; sens 100 dB SPL/W/m; crossovers 850 and 7,500 Hz. Mirror-image pairs. 55.13 x 36 x 20 in. .... \$9,900/pr

### Cascade

Floor-standing speaker with 14" aquaplas-laminate woofer, four 3" edge-driven titanium dome mid-

baffle. Max power handling 400 W/ch; imp 6 ohms; crossovers 400 Hz and 3,000 Hz; sens 89 dB; FR 24-24,000 Hz  $\pm$  3 dB. 58 x 21.5 x 12 in. .... \$2,395

### LT Series

#### 1.100T 3-Way Speaker

Floor-standing speaker with 12" aquaplas-laminate woofer, 5" high-polymer-laminate midrange, and 1" pure-titanium-diaphragm tweeter. Max power 200 W continuous, 800 W peak; crossovers 800 and 4,500 Hz; sens 91 dB SPL/W/m. Oiled hardwood veneer. 36.5 x 16 x 13.25 in; 70 lb. .... \$625 ea

#### 1.80T 3-Way Speaker

Floor-standing speaker with 10" aquaplas-laminate woofer; 5" polymer-laminate midrange; 1" pure-titanium-diaphragm tweeter. Power handling: 150 W continuous, 600 W peak; crossovers 800 and 4,500 Hz; sens 90 dB SPL/W/m. Oiled hardwood veneer. 33.5 x 14 x 11.75 in; 53 lb. .... \$465 ea

#### 1.60T 2-Way Speaker

Floor-standing speaker with 8" high-polymer-laminate woofer and 1" pure-titanium tweeter. Power handling: 120 W continuous, 400 W peak; crossover 2,500 Hz; sens 89 dB SPL/W/m. Oiled hardwood veneer; 30.5 x 12 x 10 in; 38 lb. .... \$345 ea

#### 1.20T 2-Way Speaker

Bookshelf speaker with 6.5" filled-polypropylene woofers and 1" pure-titanium-diaphragm tweeter. Power handling: 100 W continuous; 400 W peak; crossover 3,000 Hz; sens 88 dB SPL/W/m. Oiled hardwood veneer. 9.36 x 14.75 x 8.5 in; 36 lb. .... \$235 ea

### JBL series

Features optional Santa Rosa Oak finish

#### JBL 830 3-Way Speaker

Floor-standing bass-reflex speaker with 2 8" high-polymer-laminate cone woofers, and 1" titanium-laminate dome tweeter. FR 40-25,000 Hz  $\pm$  3 dB; minimum power 10 W rms, max power 200 W rms; sens 94 dB SPL/W/m; imp 4 ohms; rosewood vinyl finish; 53 lb; 39.75 x 16.75 x 8.75 in. .... \$325 ea

#### JBL 630 3-Way Speaker

Floor-standing bass-reflex speaker with 2 6.5" high-polymer cone woofers and 1" titanium-laminate dome tweeter. FR 42-25,000 Hz  $\pm$  3 dB; min power 10 W rms, max power 150 W rms; sens 93 dB SPL/W/m; imp 4 ohms; rosewood vinyl finish. 40 lb; 15 x 35.75 x 8.25 in. .... \$245 ea

#### JBL 82 2-Way Speaker

Floor-standing bass-reflex speaker with 8" polymer-laminate cone woofer and 1" titanium-laminate dome tweeter. FR 45-25,000 Hz  $\pm$  3 dB; min power 10 W rms; max power 125 W rms; sens 90 dB SPL/W/m; imp 8 ohms, rosewood vinyl finish. 30 lb; 14 x 22 x 8 in. .... \$175 ea

#### JBL 62 2-Way Speaker

Bookshelf bass-reflex speaker with 6.5" high-polymer-laminate cone woofer and 1" dome tweeter. FR 55-25,000 Hz  $\pm$  3 dB; min power 10 W rms, max power 100 W rms; sens 89 dB SPL/W/m; imp 8 ohms; rosewood vinyl finish. 16 lb; 10 x 16 x 7 in. .... \$125 ea

#### JBL 521QX 2-Way Speaker

Bookshelf speaker with 5" high-polymer-laminate cone woofer and 1" dome tweeter. FR 85-20,000 Hz; min power 10 W rms, max power 80 W rms; sens 89 dB; imp 8 ohms; crossover at 4,000 Hz. 11.5 x 6.75 x 7.5 in; 10 lb. .... \$89 ea

### Ti Series

#### 250 Ti 4-Way Speaker

Floor-standing speaker with 14" woofer, 8" lower midrange, 5" polypropylene midrange, and 1" titanium-diaphragm tweeter. Mirrored-image SFG magnetic structure. Max power 400 W; nominal imp 8 ohms;

crossovers 400, 1,400, and 5,200 Hz; sens 90 dB SPL/W/m. Hand-oiled Burmese teak finish. 52 x 22.5 x 14.25 in; 126 lb. .... \$2,195 ea

#### 240 Ti 3-Way Speaker

Floor-standing speaker with 14" woofer, polypropylene midrange, and ultra-low-mass pure-titanium-diaphragm tweeter. Features SFG magnetic structure. Max power 300 W/ch; nominal imp 8 ohms; crossover 900 Hz, 4,000 Hz; sens 89 dB SPL/W/m. Hand-oiled Burmese teak; 36.62 x 18 x 12 in; 85 lb. .... \$995 ea

#### 120 Ti 3-Way Speaker

Features 12" woofer; polypropylene midrange; ultra-low-mass pure-titanium-diaphragm tweeter; SFG magnetic structure. Max power 250 W; nominal imp 8 ohms; crossovers 900 and 4,000 Hz; sens 89 dB SPL/W/m. Hand-oiled Burmese teak; 24.5 x 14.5 x 11 in; 54 lb. .... \$645 ea

#### 18 Ti 2-Way Speaker

Features 6.5" polypropylene woofer; ultra-low-mass pure-titanium-diaphragm tweeter; SFG magnetic structure. Max power 200 W; nominal imp 8 ohms; crossover 3,000 Hz; sens 88 dB SPL/W/m. Hand-oiled Burmese teak; 14.75 x 9.36 x 7.19 in; 17.5 lb. .... \$345 ea

### Signature Series

#### S-2 2-Way Speaker

Pedestal speaker with 8" high-polymer-laminate woofer and 4.75" titanium-laminate tweeter. Features omnidirectional enclosure; woofer fires upward, ported enclosure; hidden terminals. Imp 8 ohms; sens 88 dB; FR 40-20,000 Hz; 100 W max power. 40 x 10 x 10 in; 40 lb. .... \$550 ea

#### Pro VIII 2-Way Speaker

Wall-mount speaker with 1" titanium-dome tweeter, 6.5" high-polymer-laminate woofer; spatial identification dividing network; optional wall and ceiling-mounting hardware; magnetically shielded. Sens 90 dB; FR 55-27,000 Hz; 120 W max power; imp 6 ohms; crossover 3,000 Hz. 15 x 9.5 x 9 in; 26 lb. .... \$425/pr  
**MTC-51**, Wall-mounting system for Pro VIII. .... \$195/pr  
**MTC-52**, Ceiling-mounting system for Pro VIII. .... \$145/pr

#### S-4 2-Way Speaker

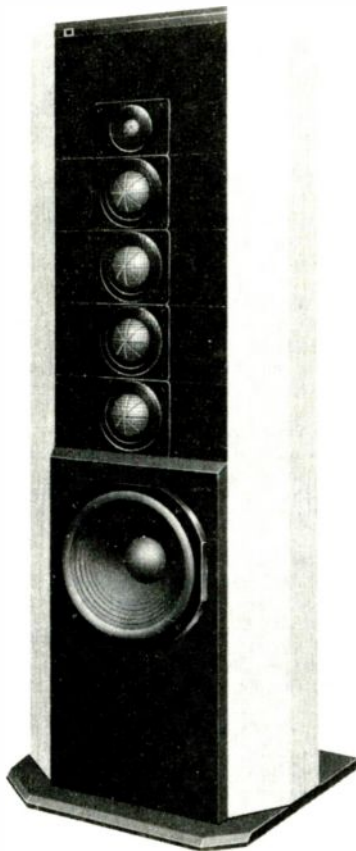
Wall-mount speaker with 1" titanium dome tweeter and 6.5" high-polymer-laminate woofer. Features flush-mounting capability; can be used with S-1 subwoofer. Imp 8 ohms; sens 88 dB; FR 125-22,000 Hz; 100 W max power. 12 x 8.75 x 3.6 in; 16 lb. .... \$295/pr

#### Pro III 2-Way Speaker

Audio/video monitor with 1" titanium-dome tweeter, 5" high-polymer mid/low driver, and high-spatial-identification dividing network. Features magnetic shielding; die-cast enclosure material; polypropylene structural foam surround. Sensitivity 87 dB SPL/W/m; maximum power handling 100 W rms. 9.5 x 6.25 x 5.63 in. .... \$285/pr  
**MTC-1 Adaptor**, Clamp-on unit that allows Pro III to be mounted on photo tripods, mic stands and other wall or clamp-mount systems. .... \$45/pr  
**MTC-2 Wall/Ceiling Mount System**, Allows Pro III to be mounted on any rigid surface while permitting the speaker to be aimed in almost any direction. Includes MTC-1. .... \$65 ea  
**MTC-3 Clamp Mount System**, Allows Pro III to be clamped to a variety of objects such as shelves, poles or table tops while permitting a range of adjustments. Includes MTC-2. .... \$95 ea

#### S-3 2-Way Speaker

Wall-mount speaker with 1" titanium dome tweeter and 5.25" polymer-laminate woofer. Features flush-mounting capability; can be used with S-1 subwoofer. Imp 8 ohms; sens 86 dB; FR 125-22,000 Hz; 100 W max power. 10.5 x 7.25 x 3.6 in; 14 lb. .... \$245/pr



ranges, one 1" titanium dome tweeter, all in a vertical array. Features shallow-profile wood enclosure with beveled edges; foam-covered baffle; offset



# SPEAKERS

## Subwoofers

### B460 Subwoofer

Bass system consists of JBL Model 2245H 18" driver mounted in vented enclosure of 8 cubic feet. The combination is third-order quasi-Butterworth. Features die-cast aluminum frame; integrally stiffened cone with foam surround; edge-wound voice coil with 4" diameter and nearly 1" long; individually machined magnetic pole piece and back plate; cone coated with aquaplas damping formulation for optimum mass and density; large high-flux symmetrical-field-geometry magnetic structure in drivers to reduce second-harmonic distortion; density-compressed wood enclosure; 1" thick and heavily braced. Min recommended power 200 W; imp 8 ohms; crossovers 63 Hz (external crossover); sens 94 dB; magnetic assembly weight 20 lb; 24.81 x 38.31 x 24.25 in; shipping weight 125.5 lb. . . . . \$1,795 ea

### B-380 Subwoofer

Bass system with 15" bass driver and 4" ribbon-wire voice coil in a vented alignment. Features hand-crafted oiled American black walnut veneer cabinet; biamp option with BX63A; max recommended power 600 W; crossover frequency 63 Hz; sens 90 dB; 27.5 x 20.75 x 17 in . . . . . \$795 ea

### S-1 Pedestal Loudspeaker

Pedestal subwoofer for use with JBL signature series wall-mount speakers. Features 8" downward-firing high-polymer-laminate woofer; dual voice coil; external passive crossover network; ported enclosure; 4 pairs of speaker terminals. Imp 8 ohms; sens 88 dB; FR 40-200 Hz; 100 W max power. 33.5 x 10 x 10 in; 38 lb. Available in walnut veneer, black lacquer, white lacquer, and rosewood vinyl . . . . . \$300-500

### BX63A Dividing-Summing Network

Electronic dividing-summing network designed to match characteristics of JBL B380 and B460 subwoofers. Features active low-pass filter with crossover frequency continually adjustable from 63 to 125 Hz. Passive high-pass will bridge stereo amp to provide single-ch drive. Provides proper voltage drive for JBL B380 or B460 subwoofers, adjustable imp compensation for different amps. S/N 95 dB; THD 0.01%; max outputs 18 dBV (10,000 ohm output load); IMD SMPTE 0.01%; 2 lb; 1.88 x 5.5 x 7.5 in . . . . . \$375

## JENSEN

### Model 3150 Concert Series

3 way speaker with 15" woofer, 5" midrange, and 3" dynamic cone tweeter. FR 33-21,000 Hz; imp 8 ohms. 32 x 18.5 x 11.5 . . . . . \$350/pr

### Model 3120 3-Way Speaker

Features 12" cone woofer; 5" midrange; 3" tweeter. FR 48-21,000 Hz; max power 150 W peak; imp 8 ohms. 29 x 15.5 x 10.5 in . . . . . \$280/pr

### Model 3100 3-Way Speaker

Features 10" cone woofer; 5" midrange; 3" tweeter. FR 43 Hz-21 kHz; max power 125 W peak; imp 8 ohms. 20 x 13 x 10.5 in . . . . . \$220/pr

## JOHN MAROVSKIS AUDIO

### Janis W1 Subwoofer

Subwoofer system with slot loaded design. Features crossover at 18 dB per octave at 100 Hz; 60 W/ch into 8 ohm; variable bass level +15 dB above unity gain; comparator switch allows user to by-pass the crossover amplifier circuitry to the interphase unit; 90 lb furniture-finished enclosure; brazilian monarch, rosewood, or coca bola . . . . . \$895  
American walnut, White oak, black . . . . . \$795  
Utility particle core with walnut edging and base \$720

### Janis W3 Subwoofer

Similar to the Janis W1 subwoofer but smaller, can be

used with a 2-way speaker system. Features 12" woofer; extra heavy polypropylene cone and massive magnetic structure; max power output 103 dB at 30 Hz; FR 30-100 Hz  $\pm 1$  dB; max amp power 100-150 W; imp 5 ohm; Brazilian Monarch Rosewood or Coca Bola . . . . . \$650  
American walnut, White oak, or black . . . . . \$550

## JPW LOUDSPEAKERS

### AP3 Infinite-Baffle Speaker

Features wiring for bi-amp capabilities; 200-mm doped-paper-cone woofer; 19-mm soft-plastic dome tweeter with Ferrofluid damping. FR 55-20,000 Hz  $\pm 3$  dB; min power 10 W rms; max power 100 W rms; sens 100 dB SPL/W/m; imp 8 ohms Available in walnut, black ash, blonde ash or teak finishes. 53.36 lb/pr; 10.25 x 20.5 x 11.5 in . . . . . \$549/pr

### AP2 Infinite-Baffle Speaker

Features wiring for bi-amp capabilities; 200-mm doped-paper-cone woofer; 19-mm soft-plastic dome tweeter with Ferrofluid damping. FR 60-20,000 Hz  $\pm 3$  dB; min power 10 W rms; max power 80 W rms; sens 80 dB SPL/W/m; imp 8 ohms. Available in walnut, black, blonde ash and teak finishes. 42.32 lb/pr; 10.25 x 17.25 x 10.25 in . . . . . \$399/pr

### P1 Infinite-Baffle Speaker

Floor-standing speaker features 200-mm doped-paper-cone woofer; 19-mm soft-plastic dome tweeter with Ferrofluid damping. FR 65-20,000 Hz  $\pm 3$  dB; min power 10 W rms; max power 70 W rms; sens 90 dB SPL/W/m; imp 8 ohms. Available in walnut and black finishes. 33.5 lb/pr; 10.25 x 17.25 x 10.25 in . . . . . \$349/pr

## JRM

### Transparency Satellite Tower

Triamped sealed satellite features eight 6" woofer; horn midrange; 1.87" horn tweeter; FR 20-20,000 Hz  $\pm 2$  dB; 98 SPL/W/m; min amp power 200 W; nominal impedance 8 ohms; optional finish; optional grille color and material. 8 x 16 x 66 in . . . \$1,700/pr

### Monitor

Powered speaker with 6" woofer; 3" cone midrange; horn tweeter; separate level controls for woofer, midrange, tweeter and supertweeter; FR 20-20,000 Hz  $\pm 2$  dB. Optional oiled walnut finish . . . . \$1,200/pr

### Transparency Subwoofer S18B

QB3 vented subwoofer features 18" woofer; FR 27-250,000 Hz  $\pm 1.5$  dB; 94 SPL/W/m; min amp power 200 W; nominal impedance 8 ohms; optional finish; optional grille color and material. 36 x 25 x 24 in; 175 lb . . . . . \$700/pr

### Transparency Subwoofer S18B-6

B6 vented subwoofer features 18" woofer; FR 20-250,000 Hz  $\pm 1.5$  dB; 94 SPL/W/m; min amp power 200 W; nominal impedance 8 ohms; optional finish; optional grille color and material. 36 x 25 x 24 in; 175 lb . . . . . \$700/pr

### Transparency Subwoofer S15A

QB3 vented subwoofer features 15" woofer; FR 27-300,000 Hz  $\pm 1.5$  dB; 91 SPL/W/m; min amp power 200 W; nominal impedance 8 ohms; optional finish; optional grille color and material. 36 x 23 x 16 in; 130 lb . . . . . \$550/pr

### Transparency Subwoofer S15A-6

B6 vented subwoofer features 15" woofer; FR 20-300,000 Hz  $\pm 1.5$  dB; 91 SPL/W/m; min amp power 200 W; nominal impedance 8 ohms; optional finish; optional grille color and material. 36 x 23 x 16 in; 130 lb . . . . . \$550/pr

### Transparency Subwoofer D15A

C4 vented subwoofer features two 15" woofer; FR 18-300,000 Hz  $\pm 1.5$  dB; 89 SPL/W/m; min amp power

200 W; nominal impedance 8 ohms; optional finish; optional grille color and material. 48 x 34 x 24 in; 200 lb . . . . . \$550/pr

### Transparency Subwoofer S18A

B4 vented subwoofer features 18" woofer; FR 25-250,000 Hz  $\pm 1.5$  dB; 95 SPL/W/m; min amp power 200 W; nominal impedance 8 ohms; optional finish; optional grille color and material. 36 x 30 x 24 in; 175 lb . . . . . \$500/pr

### Transparency Subwoofer D12A

QB3 vented subwoofer features two 12" woofer; FR 27-450,000 Hz  $\pm 1.5$  dB; 88 SPL/W/m; min amp power 200 W; nominal impedance 8 ohms; optional finish; optional grille color and material. 36 x 23 x 18 in; 150 lb . . . . . \$450/pr

### Transparency Subwoofer D12A-6

B6 vented subwoofer features two 12" woofer; FR 18-450,000 Hz  $\pm 1.5$  dB; 88 SPL/W/m; min amp power 200 W; nominal impedance 8 ohms; optional finish; optional grille color and material. 36 x 23 x 18 in; 150 lb . . . . . \$450/pr

## J.S. ENGINEERING

### Model 4

Reference quality floor standing system, incorporating complex rounded trapezoidal shape, patented phase shift bass loading and Infinite Slope crossover. Features 2-10" cone woofers; 1-7" cone midrange; 1-2" dome upper midrange; 1-21 mm dome tweeter; front and side of speakers angled 8 degrees; uniform horizontal output to 90 degrees off axis; imp 8 ohms; 48.5 x 19 x 22(bottom) in; 16 x 6.5(top) in; 150 lb; walnut, oak, black oak . . . . . \$4,500/pr

### Infinite Slope Model 1.8A Speaker

Infinite slope phase shift bass loading speaker with patented phase shift. Contains 8" and 10" cone woofers, 6" cone midrange, and 28 mm dome tweeter. FR 35-20,000 Hz  $\pm 3$  dB; minimum power 20 W rms, max power 300 W rms; sens 90 dB SPL/W/m; imp 8 ohms; oak, walnut, black gloss; 100 lb; 16 x 38 x 16 in . . . . . \$1,795/pr

### Infinite Slope Model 1 Loudspeaker

Sealed floor-standing speaker featuring infinite slope crossover and patented Phase Shift Bass Loading. Front of speaker angled 15 degrees. Two cone woofers 7", 8"; 28 mm dome tweeter. Available in oak, walnut, black gloss. FR 40-20,000 Hz  $\pm 2$  dB; power range 10-150 W; imp 8 ohms; sens 90 dB SPL/W/m; 55 lb; 13 x 29 x 14.5 in. . . . . \$1,095/pr

### Infinite Slope Model 2A Loudspeaker

Similar to above except has cone woofers of 12" and 10", with 6.5" cone and 2" dome midranges, 21 mm dome tweeter. Front of speaker angled 8 degrees. FR 25-24,000 Hz  $\pm 2$  dB; power range 50-350 W; sens 90 dB SPL/W/m; imp 8 ohms; 47 x 18 x 16 in. at bottom, 47 x 18 x 11 in. at top in; 150 lb . . . . . \$2,495/pr

### Infinite Slope Model .8 Speaker

Floor standing speaker with patented phase shift bass loading and Infinite Slope crossover. Features 2-8" cone woofer, 1" dome tweeter; impedance 8 ohms; available in walnut, oak, or black lacquer finish; 12 x 29 x 14.5; 50 lb . . . . . \$899/pr

### Infinite Slope Model .6 Speaker

Floor-standing ported speaker with infinite slope crossover 100 dB octave. Features 8" cone woofer; 1" dome tweeter. FR 40-20,000 Hz  $\pm 3$  dB; power range 5-150 W; sens 91 dB SPL/W/m; impedance 8 ohms; available in walnut, oak, or black lacquer finish; 11 x 23 x 13 in; 35 lb . . . . . \$599/pr

### Sub

Features 1 12" driver with 2 voice coils; FR 30-60 Hz; sens 90 dB. 18 x 18 x 16 in; 50 lb. Available in oak and walnut . . . . . \$495 ea

# S P E A K E R S

## JVC

### SX911WD 3-Way Speaker

Floor-standing 3-way speaker with 3-part crossover network. Features 12" cross carbon woofer; 4.5" cross carbon midrange; 1.2" amorphous-diamond coated tweeter; low-resonance/-vibration die-cast aluminum speaker frames; high-density conifer-based particle-board enclosure; round-cornered front baffle; computer optimized speaker layout; 300 W max power handling. . . . . \$720/pr

### SX-A6 4-Way Speaker

Floor-standing 4-way 5-speaker system with two 3" ambience enhancement drivers in rear, self-restoring protection for more tweeter power handling, LED overload indicator. Features 9.25" x 13.75" passive radiator; 8" cone woofer; 1.25" soft-dome midrange; 1" soft-dome tweeter. FR 25-23,000 Hz  $\pm$  3 dB; power handling capacity 150 W/240 W (music); sens 89 dB SPL/W/m; imp 6 ohms. Wood finish. 15.36 x 31.88 x 10.23; 38.6 lb . . . . . \$500/pr

### SX-A3 2-Way Speaker

Bookshelf passive-radiator speaker with self-restoring protection for more tweeter power handling, LED overload indicator. Magnetically shielded for both audio and video use. Features 8" x 12" passive radiator; 8" cone woofer; 1" soft-dome tweeter. FR 35-23,000 Hz  $\pm$  3 dB; power handling capacity 130 W/200 W (music); sens 88 dB SPL/W/m; imp 6 ohms. Wood finish. 13.5 x 24.5 x 11.31 in; 31 lb . . . . . \$400/pr

### SPX5WD Floor-Standing Speaker

Floor-standing speaker with one full-range 5" driver. Features furniture-like columnar design. . . . \$180/pr

## KEF

### Reference Series

#### Model 107 3-Way Speaker

Floor-standing coupled-cavity bass-loading speaker uses 2 woofers operating into a resonant chamber vented at top of enclosure to combine sensitivity of bass reflex with accuracy and bass-extension of acoustic suspension. Features 2 10" cone woofers; 4" polypropylene-cone midrange; 1" ferrofluid-cooled soft-dome tweeter; pivoting midrange/tweeter head assembly with individual contoured enclosures for minimum diffraction, reduced off-axis coloration, and optimum stereo imaging; hybrid crossover network with built-in passive crossover and outboard KUBE active bass EQ with controls for contour, damping, and extension. Conjugate load-matched passive crossover presents amp with uniform imp at all frequencies. FR 20-20,000 Hz  $\pm$  2 dB; min power 50 W rms; max power 300 W rms; sens 90 dB SPL/W/m; imp 4 ohms. Walnut, black ash, rosewood. 13 x 46 x 17.75 in; 99 lb . . . . . \$4,500/pr

#### 104/2 3-Way Speaker

Floor-standing speaker with cone woofers vertically aligned, coupled-cavity bass loading technique, chassis-less drivers, conjugate load matching. Two 8" cone woofers, two 4.5" cone midranges and 1" ferrofluid-cooled dome tweeter. FR 55-20,000 Hz  $\pm$  2 dB; power range 25-200 W; sens 92 dB SPL/W/m; imp 4 ohms; 11 x 35.5 x 16.36; 70.5 lb; walnut, rosewood or black ash finish . . . . . \$2,000/pr

104/2 KUBE. Active bass EQ with controls for contour and extension . . . . . \$200

#### 103/3 3-Way Speaker

Bookshelf coupled-cavity bass-loading speaker with woofer operating into a resonant chamber vented at bottom of enclosure to combine sensitivity of bass reflex with accuracy and bass-extension of acoustic suspension. Features 8" cone woofer; 6" polypropylene-cone midrange; 1" ferrofluid-cooled soft-dome tweeter; hybrid crossover network with built-in passive crossover and outboard KUBE active bass EQ

with controls for contour and extension. Conjugate load-matched passive crossover presents amp with uniform imp at all frequencies. FR 50-20,000 Hz  $\pm$  2 dB; min power 50 W rms; max power 200 W rms; sens 92 dB SPL/W/m; imp 4 ohms. Walnut, black ash, rosewood. Includes feet for shelf mounting. 10.5 x 22.75 x 12.5 in; 38 lb . . . . . \$1,390/pr

KS103/3. Optional floor stands for free-standing placement . . . . . \$109/pr

#### Model 102 2-Way Speaker

Bookshelf closed-box speaker with 6" polypropylene-cone woofer and 1" ferrofluid-cooled soft-dome tweeter. Features hybrid crossover network with built-in passive crossover and outboard KUBE active bass EQ with controls for contour and extension. Conjugate load-matched passive crossover presents amp with uniform imp at all frequencies. FR 65-20,000 Hz  $\pm$  2 dB; min power 50 W rms; max power 200 W rms; sens 92 dB SPL/W/m; imp 4 ohms. Walnut, black ash, rosewood. 8.25 x 13 x 10.5 in; 15 lb . . . . . \$870/pr

ULS20. Optional floor stands . . . . . \$125/pr

### C Series

All C-series speakers feature polymer woofer diaphragms; fluid cooling on tweeters; all input terminals are gold-plated; terminals accept heavy-gauge wire, 4mm banana plugs, and dual banana plugs on .75" centers.

#### C95 3-Way Speaker

Floor standing speaker features KEF Uni-Q2-way driver; 8" woofer and tweeter; coupled cavity bass loading; 8" unit mounted vertically inside cabinet is loaded at the front by a tuned cavity; conjugate load matching; separate connecting terminals allow one to bi-amplify driving the bass unit separately; FR 50-20,000 Hz; sens 90 dB; imp 4 ohms resistive; 34.3 x 9.7 x 12.4 in; 41.6 lb; grain-matched real walnut, black ash . . . . . \$1,290/pr

#### C75 3-Way Speaker

Floor standing loudspeaker just over half a square foot; uses the same KEF Uni-Q driver as C95; second 200mm bass unit on matching die-cast chassis; FR 57-20,000 Hz; sens 91 dB; imp 4 ohms; closed box enclosure; 28.4 x 9.7 x 10.1 in; 28.4 lb; simulated walnut and simulated black ash . . . . . \$750/pr

#### C55 3-Way Speaker

Small enough for bookshelf or free standing. Features KEF Uni-Q driver with polymer cone 8" passive radiator which extends bass to 48 Hz -6 dB; clip-on injection-molded grille made to minimize 'tunnel' effects; FR 60-20,000 Hz; sens 90 dB; imp 4 ohms; passive radiator enclosure; 18.9 x 9.7 x 10.1 in; simulated walnut or simulated black ash . . . \$550/pr

#### C35 2-Way Speaker

Bookshelf speaker. Features KEF Uni-Q driver; improved stereo imaging, enhanced phase integrity, reduced diffraction; can be placed upright or on its side with no effect on horizontal dispersion; .75" oiktner dome tweeter; 8" polymer cone woofer; sens 90 dB; FR 64-20,000 Hz; imp 4 ohms; closed box enclosure; 14.8 x 9.7 x 8.1 in; 10.6 lb; simulated walnut or simulated black ash . . . . . \$440/pr

#### C25 2-Way Speaker

Bookshelf speaker. Features B160, a 6.5" cone driver with lightweight polymer diaphragm; .75" dome tweeter; FR 65-20,000 Hz; sens 87 dB; imp 4 ohms; closed box enclosure; 13.4 x 8.1 x 6.9 in; 9 lb; simulated walnut or simulated black ash . . . \$330/pr

#### C15 2-Way Speaker

Bookshelf speaker. Features 5" polymer cone bass unit with die-cast chassis; .75" metal dome tweeter; recessed, gold-plated terminals; tweeter's fluid cooling and bass unit's high-temperature voice coil handle up to 60 W and produce >100 dB; FR 68-20,000 Hz; sens 85 dB; imp 4 ohms; closed box

enclosure; 10.4 x 7.1 x 5.9 in; 7 lb; simulated walnut or simulated black ash . . . . . \$240/pr

### Custom Series

Models are designed for seamless integration into any listening environment. Speakers are finished in white and can be painted to match any decor or can be replaced with cloth.

#### CR200F 2-Way Full-Range Speaker

In-wall unit features 8" bass driver mounted to 1" soft-dome tweeter with fluid cooling; self-restoring tweeter protection circuit; FR 55-22,000 Hz  $\pm$  2 dB; outside dimensions 12.88 x 10 x 3.5 in \$550/pr not incl. installation

#### CR200F + CR200SW 3-Way Speaker

In-wall system consists of CR200F and matching 10" CR250SW subwoofer. Response is 32-150 Hz  $\pm$  2 dB; full range audio input is fed to the CR200SW crossover network providing output terminals for CR200F satellites; crossover point 150 Hz; FR 32-22,000 Hz  $\pm$  2 dB; sens 90 dB; imp 4 ohms; satellite 13 x 10 x 3.5 in; subwoofer 13 x 13 x 3.75 in; black baffle with white bezel finish. Installed . . . . \$1,100/pr

## KENWOOD

#### LS-P9100 4-Way Speaker

Basic series floor-standing speaker with 17" passive radiator. Features 10.5" polypropylene woofer; 4" polypropylene midrange; flat-leaf supertweeter plus 2 cone tweeters in wide-dispersion Ton-Saule vertical array; high-grade simulated rosewood finish; crossover network; auto-resetting overload protector; high rigidity enclosure; max input power 250 W; sens 91 dB/W/m; crossover FR 900, 5,500, 10,000 Hz; imp 8 ohms. 44.5 x 17.31 x 13.25 in; 62 lb . . . . . \$720/pr

#### LS-P5100 4-Way Speaker

Basic series floor-standing speaker with 13" passive radiator. Features 8.5" polypropylene woofer; 4" polypropylene midrange; flat-leaf supertweeter plus 2" cone tweeter in wide dispersion Ton-Saule vertical array; high-grade crossover network; auto-resetting overload protector; high rigidity enclosure; simulated rosewood finish; max input power 150 W; sens 90 dB/W/m; crossover FR 800, 5,000, 10,000 Hz; imp 8 ohms. 35.44 x 14.56 x 10.69 in; 40 lb . . . . \$480/pr

#### LSK-702W 3-Way Speaker

Features acoustic-suspension enclosure; 12" woofer; 4.5" midrange; 2" cone tweeter; max input power 160 W; sens 91 dB/W/m; imp 8 ohms; simulated wood-grain finish. 26.0 x 14.81 x 10.56 in; 26.5 lb \$285/pr

#### LSK-502W 3-Way Speaker

Features acoustic-suspension enclosure; 10" woofer; 4.5" midrange; 2" cone tweeter; max input power 130 W; sens 90 dB/W/m; imp 8 ohms; simulated wood-grain finish. 24.19 x 14.0 x 10.56 in; 23 lb . . \$220/pr

#### LSK-302W 2-Way Speaker

Features bass-reflex enclosure; 12" woofer; 4.5" midrange; 2" cone tweeter; max input power 160 W; sens 91 dB/W/m; imp 8 ohms; simulated woodgrain finish. 22.31 x 12.81 x 8.56 in; 16.5 lb . . . \$145/pr

#### LSK-05S Surround Speaker

Full-range speaker for rear-channel sound. Features 4" x 6" dual-cone driver; acoustic suspension wedge-shape enclosure designed for horizontal or vertical placement; sens 90 dB/W/m; imp 8 ohms; Simulated woodgrain finish. 10.88 x 7.69 x 5.69 in; 3.1 lb \$89/pr

#### LSK-01S Surround Speaker

Full-range speaker for rear-channel sound. Features 4" driver; acoustic suspension enclosure; sens 90 dB/W/m; imp 8 ohms; Simulated woodgrain finish; 10.88 x 7.69 x 5.69 in; 3.1 lb . . . . . \$49/pr

#### LSK-703 3-Way Speaker System

Features acoustic suspension bookshelf design; max



# SPEAKERS

input power 160 W; 12" woofer; 4.31" midrange; 2" tweeter; FR 40-20,000 Hz; sens 91/dB/m; simulated teak grain finish; imp 8 ohms; 26.75 x 14.81 x 10.31 in; 25.4 lb ..... \$285/pr

## LSK-503 3-Way 3-Speaker System

Features acoustic suspension bookshelf design; 10" woofer; 4.31" midrange; 2" tweeter; FR 45-20,000 Hz; max input power 130 W; sens 90/dB/m; simulated teak grain finish; imp 8 ohms; 24.19 x 14.0 x 10.5 in; 22 lb ..... \$220/pr

## LSK-303 2-Way 2-Speaker System

Features acoustic suspension bookshelf design; 8" woofer; 2" tweeter; FR 50-20,000 Hz; sens 90/dB/m; simulated teak grain finish; max input power 100 W; imp 8 ohms; 22.31 x 12.87 x 8.0 in; 15.4 lb \$145/pr

## LSK-05S Rear Surround Speakers

Full range 1-way 1-speaker system. Features acoustic suspension enclosure; max input power 30 W; enclosure designed for horizontal or vertical, corner or bookshelf installation; 4" x 6" dual cone elliptical mounted driver; sens 90 dB/m; FR 80-20,000 Hz; imp 8 ohms. 10.87 x 7.68 x 5.68 in; 3.1 lb ..... \$69 ea

## LSK-01S Rear Surround Speakers

Full range 1-way 1-speaker system. Features acoustic suspension enclosure; max input power 20 W; sens 91 dB/m; FR 100-20,000 Hz; imp 8 ohms. 7.5 x 5.5 x 4.81 in; 2.6 lb ..... \$49 ea

## KINDEL AUDIO

### PLS-A 2-Way Speaker

Floor-standing line-source speaker with vertical array of 6 6.5" woofers and 16 1" dome tweeters. FR 35-22,000 Hz  $\pm$  3 dB; power range 5-500 W rms; sens 94 dB SPL/W/m; imp 8 or 2 ohms. Available in oak or walnut finish. 22 x 67 x 9 in; 130 lb ea. .... \$2,495/pr

### PLS-B 2-Way Speaker

Floor-standing line-source speaker with 6 6.5" woofers; 12 1" tweeters; bi-amp, bi-wire terminals; does not require separate crossover; imp 4 ohms; minimum power 50 W; 120 lb; 74 x 11 x 10 in; stand standard ..... \$1,900/pr

### P-105 Speaker

Features 8" polypropylene woofer; double voice coil; 1" soft dome tweeter; crossover at 250 Hz which rolls off one woofer voice coil winding; conventional crossover at 2.5K (first order) to tweeter; sealed box for bass; FR 40-20,000 Hz  $\pm$  2.5 dB; imp 4 ohms; minimum power 20 W; 20 x 10 x 9 in ..... \$475/pr

### P-55 Speaker

Features 6" polypropylene woofer; 1" dome tweeter; sealed box bass; FR 55-20,000 Hz  $\pm$  2.5 dB; crossover at 3,000 Hz; imp 8 ohms; minimum power 20 W; 14 x 8 x 8 in; black gloss finish ..... \$289/pr

### The Purist Series

#### Purist LT 2-Way Speaker

Floor-standing speaker using a 2 pi/4 pi configuration. Features 2-6.5" polypropylene cone woofers; 1" dome tweeter; bass loading via an 8" passive radiator in a loaded-line configuration. FR 35-20,000 Hz  $\pm$  2 dB; imp 4 ohms. 13 x 43 x 6.5 in; 60 lb ..... \$850/pr

## KINERGETICS

### SW-100 Subwoofer

Stereo speaker system which can extend the low frequency response of most speaker systems. Constructed of high density fiberboard and veneered with oak or walnut. FR 17 Hz -3 dB; 10" woofer; efficiency 95 dB; 11 x 24 x 15.25 in; 40 lb; Oak, Walnut, Black ..... \$395

### SW-100.5 Subwoofer

Subwoofer constructed of high density fiberboard

and veneered with oak or walnut. 10" woofer; efficiency 92 dB; FR 17 Hz -3 dB; 10" woofer; 11 x 12.5 x 15 in; 20 lb; oak, walnut and black ..... \$199

## KINETIC AUDIO

### Titan 6-Way Speaker

Floor-standing ported speaker. 12" polypropylene cone subwoofer; 12" polypropylene cone woofer; 6.5" polypropylene cone mid/woofer; 2" textile-dome midtweeter; 1.12" synthetic-dome tweeter; 0.75" synthetic-dome supertweeter. Crossover points 60, 90, 500, Hz; linear-phased driver arrangement in mirror-image pairs; front-mounted fuse and noninductive level controls. Interconnecting harness of color-coded high-performance speaker cables; 5-way heavy-duty binding posts. Mirror-matched high-grade walnut veneer. Black grille with nonresonant frame. FR 12-22,000 Hz  $\pm$  1.5 dB; min power 35 W, max power 250 W; sens 90 dB SPL/W/m; imp 4 or 8 ohms; 245 lb; 18 x 60 x 22 in. Grilles, stands, and casters included ..... \$5,000/pr

### Trapezoid 5-Way Speaker

Floor-standing ported speaker. 12" polypropylene cone woofer; 6.5" polypropylene cone midrange; 2" textile-dome midtweeter; 1.12" synthetic-dome tweeter; 0.75" synthetic-dome supertweeter (tweeters have magnetic-liquid cooling/damping). Crossover points at 90, 500, 3,000, 7,000 Hz; linear-phased driver arrangement in mirror-image pairs; front-mounted fuse and noninductive level controls. Interconnecting harness of color-coded high-performance speaker cables; 5-way heavy-duty binding posts. Mirror-matched high-grade walnut veneer. Black grille with nonresonant frame. FR 12-22,000 Hz  $\pm$  1.0 dB; min power 45 W, max 200 W; sens 90 dB SPL/W/m; imp 6 ohms; 205 lb; 16 x 60 x 20 in. Includes grilles, stands, and casters. .... \$4,000/pr

### Labyrinth 4-Way Speaker

Floor-standing ported speaker. 12" polypropylene cone woofer; 6.5" polypropylene cone midrange; 2" textile-dome midtweeter; 1.12" synthetic-dome tweeter (both tweeters have magnetic-liquid cooling/damping). Crossover points 90, 500, 3,000 Hz; linear-phased driver arrangement in mirror-image pairs; front-mounted fuse and noninductive level controls. Interconnecting harness of color-coded high-performance speaker cables; 5-way heavy-duty binding posts. Mirror-matched high-grade walnut veneer. Black grille with nonresonant frame. FR 16-22,000 Hz  $\pm$  1.5 dB; min power 35 W, max 200 W; sens 91 dB SPL/W/m; imp 6 ohms; 185 lb; 16 x 48 x 18. Includes grilles, stands, and casters ..... \$3,000/pr

### Trapezoid 4-Way Speaker

Floor-standing ported speaker. 12" polypropylene cone woofer; 6.5" polypropylene cone midrange; 1.12" synthetic-dome tweeter with magnetic-liquid cooling/damping; 0.75" synthetic-dome supertweeter with magnetic-liquid cooling/damping. Crossover points 90, 2,000, 7,000 Hz; linear-phased driver arrangement in mirror-image pairs; front-mounted fuse and noninductive level controls. Interconnecting harness of color-coded high-performance speaker cables; 5-way heavy-duty binding posts. Mirror-matched high-grade walnut veneer. Black grille with nonresonant frame. FR 18-22,000 Hz  $\pm$  1.5 dB; min power 20 W, max 200 W; sens 92 dB SPL/W/m; imp 8 ohms; 115 lb; 16 x 40 x 14 in ..... \$2,000/pr

### STAT Monitor

Floor-standing or large-shelf 3-way ported speaker. Features 12" polypropylene-cone woofer; 6.5" polypropylene-cone midrange; 1.12" synthetic-dome tweeter with magnetic-liquid cooling/damping. Crossover points 90, 2,000 Hz; linear-phased driver arrangement in mirror-image pairs; front-mounted fuse and noninductive level controls. Interconnecting harness of color-coded high-performance speaker cables; 5-way heavy-duty binding posts. Mirror-matched high-grade walnut veneer. Black grille with

nonresonant frame. FR 18-22,000 Hz  $\pm$  1.5 dB; min power 15 W, max 200 W; sens 93 dB SPL/W/m; imp 8 ohms; 95 lb; 14.5 x 26 x 14 in ..... \$1,000/pr

### Stat Miniature Monitor

2-way ported speaker. Features 6.5" polypropylene-cone woofer; 1.12" synthetic-dome tweeter with magnetic-liquid cooling/damping; crossover point 2,000 Hz; linear-phased driver arrangement in mirror-image pairs; front-mounted fuse and noninductive level controls. Interconnecting harness of color-coded high-performance speaker cables. 5-way heavy-duty binding posts. Mirror-matched high-grade walnut veneer. Black grille with nonresonant frame. FR 38-22,000 Hz  $\pm$  2 dB; min power 5 W, max 150 W; sens 93 dB SPL/W/m; imp 8 ohms; 30 lb; 9 x 15 x 9 in ..... \$700/pr

### Subwoofers

#### Trapezoid Subwoofer

Floor-standing subwoofer with 12" polypropylene-cone driver, built-in 180-Hz passive crossover, and separate direct-to-woofer terminals. May be used with electronic crossover or optional low-loss 4-point passive crossover/low-pass filter, in mirror-image pairs. Features interconnecting harness of color-coded high-performance speaker cables; 5-way heavy-duty binding posts. Mirror-matched high-grade walnut veneer. Black grille with nonresonant frame. FR 16-2,000 Hz  $\pm$  1.5 dB; min power 25 W, max 350 W; sens 92 dB SPL/W/m; imp 8 ohms; 95 lb; 16 x 40 x 14 in ..... \$600/pr

#### Stat Subwoofer

Ported subwoofer with 12" polypropylene cone driver, built-in 180-Hz crossover, and separate direct-to-woofer terminals. Features interconnecting harness of color-coded high-performance speaker cables; 5-way heavy-duty binding posts; mirror-matched high-grade walnut veneer; black grille with nonresonant frame. FR 18-2,000 Hz  $\pm$  2 dB; min power 15 W, max 350 W; sens 93 dB SPL/W/m; imp 8 ohms; 80 lb; 14.5 x 26 x 14 in ..... \$450/pr

## KIRKSAETER

### Monitor Tower 260 4-Way Speaker

Floor-standing acoustic-suspension speaker with 2 10" long-exursion woofers, 4.5" coated-cone lower midrange, 2" soft-metal midrange with 2.3-lb magnet; 0.75" titanium-dome supertweeter with Ferrofluid; 8 wood or 4 glossy lacquer finishes. Power range 10-250 W; sens 93 dB SPL/W/m; imp 4-8 ohms. .... \$1,995/pr

### Monitor 141 3-Way Speaker

Floor-standing or bookshelf infinite-baffle speaker. Features 12" long-exursion woofer; 2" soft-metal dome midrange; 0.75" titanium-dome tweeter. FR 20-32,000 Hz  $\pm$  5 dB; imp 4-8 ohms; walnut, mahogany, teak, cherry, black/white/antique/dark/unfinished oak finishes; 13.75 x 22.88 x 10.62 in. .... \$1,245/pr

### Amadeus 120 Tower 3-Way Speaker

3-way floor-standing speaker with 8.5" long-exursion polypropylene woofer and 4" polypropylene midrange. Features ferrofluid-cooled titanium-dome .75" tweeter; sealed cabinet; power range 85-120 W; sens 90 dB SPL/W/m; FR 28-30,000 Hz; banana-plug compatible. 10.25 x 10.25 x 33 in; 28 lb. .... \$995/pr

### Concept 120 3-Way Bookshelf Speaker

3-way bookshelf speaker with ported enclosure. Features 8.5" long-exursion woofer; 4" polypropylene midrange; 1" textile-covered tweeter; 120 W/ch max power handling; sens 90 dB SPL/W/m; FR 38-22,000 Hz; crossovers at 1,000 Hz and 5,000 Hz; imp 8 ohms. 10.25 x 10.75 x 21.3 in; 24 lb ..... \$950/pr

### Concept 100 2-Way Bookshelf Speaker

2-way bookshelf speaker with ported enclosure. Features 7" long-exursion woofer; 1" textile-covered tweeter; 100 W/ch max power handling; sens 89 dB

# S P E A K E R S

SPL/W/m; FR 39-22,000 Hz; crossover at 2,000 Hz; imp 4-8 ohms. 8.66 x 10.25 x 17.66 in; 19 lb/\$750/pr

## Satellite 2-Way Vented Speaker

Bookshelf speaker with 4.25" long-excursion woofer and 1" titanium-dome tweeter with twin magnets. FR 68-32,000 Hz  $\pm$  5 dB; power range 15-50 W; sens 89 dB SPL/W/m; imp 4-8 ohms; walnut, mahogany, teak, cherry, black/white/antique/dark/unfinished oak finishes. 5.5 x 9.9 x 7.1 in. .... \$595/pr

## Subwoofer 501 Active

12" long-excursion woofer; subsonic filter; standard feedback; room-matching control; double-T filter; RCA/DIN inputs for preamp, CD player, etc.; 1-way crossover at 80, 120, or 160 Hz; choice of finishes. Impulse power 500 W; 16.6 x 15.8 x 16.2 in; 46 lb. .... \$1,295

## KLIPSCH

### Klipschorn 3-Way Speaker

Fully horn-loaded speaker requiring corner placement. Sens 104 dB SPL/W/m; power handling 100 W; FR 35-17,000 Hz  $\pm$  5 dB. 52 x 31.25 x 28.5 in. Priced depending on finish from approx. .... \$3,198/pr

### Belle Klipsch 3-Way Speaker

Horn-loaded floor-standing speaker using Klipschorn drive components. Sens 104 dB SPL/W/m; power handling 100 W; FR 45-17,000 Hz  $\pm$  5 dB. 35.62 x 30.12 x 18.75 in. Available in exotic woods. Priced depending on finish; approx. .... \$2,598/pr  
**La Scala.** Fully horn-loaded 3-way speaker similar to Belle Klipsch but available only in natural birch, stained birch, or black finishes. Specs same as Belle Klipsch. 35.5 x 23.75 x 24.5 in. Priced depending on finish from approx. .... \$1,706/pr

### Cornwall II 3-Way Speaker

Features 15" woofer in ported enclosure; horn-loaded compression tweeter and midrange. Sens 100 dB SPL/W/m; power handling 100 W; FR 38-20,000 Hz  $\pm$  3 dB. 35.75 x 25.5 x 15.5 in. Available in exotic woods. Priced depending on finish from approx. .... \$1,638/pr

### Chorus 3-Way Speaker

15" professional heavy-duty woofer in ported enclosure; horn-loaded compression drivers for tweeter and midrange; sens 101 dB SPL/W/m; power handling 100 W; FR 45-20,000 Hz  $\pm$  3 dB (-10 dB @ 36 Hz); 39 x 18.5 x 15.5 in; 89 lb; walnut, oak or exotic woods. Priced according to finish, from approx. .... \$1,490/pr

### Forte 3-Way Speaker

Features horn-loaded compression drivers for tweeter and midrange; 12" woofer; 12" passive radiator mounted on rear of cabinet. FR 32-20,000  $\pm$  3 dB; sens 98 dB SPL/W/m; power handling 100 W. 35.38 x 16.5 x 12 in. Available in exotic woods. Priced according to finish from approx. .... \$1,180/pr

### Heresy II 3-Way Speaker

Features horn-loaded compression tweeter and midrange; 12" woofer in sealed enclosure. FR 50-20,000 Hz  $\pm$  3 dB; max handling power 100 W; sens 96 dB SPL/W/m. 21.36 x 15.5 x 13.5 in. Available in exotic woods. Priced depending on finish from approx. .... \$882/pr

### Kg<sup>4</sup> 2-Way Speaker

Floor-standing speaker with 12" rear-mounted passive radiator, 2-8" polymer-cone woofers, and horn-loaded tweeter. FR 38-20,000 Hz  $\pm$  3 dB; max power 100 W; sens 94 dB SPL/W/m. 24.25 x 15.75 x 10.75 in. Available in oak and walnut finishes. From approximately .... \$598/pr

### Kg<sup>2</sup> 2-Way Speaker

Features rear-mounted passive radiator. Crossover frequency 1,800 Hz; FR 35-20,000 Hz  $\pm$  3 dB; sens 90

dB SPL/W/m; power handling 65 W. 18.88 x 11.5 x 13.25 in. From approx. .... \$420/pr

## KOSS

### JCK/5000 Wireless Speaker System

Infrared wireless speakers with tone/volume controls on each cabinet; on/off power switch; battery recharger (batteries not included); 2" tweeter; 6.5" woofer; FR 40 Hz-20,000 Hz. 15 x 9 x 5 in. .... \$350/pr

### M/100 Plus Powered Speaker

Built-in 20-watt amp allows amplification from the headphone jack of TV, portable tape, or CD player. FR 50 Hz-30,000 Hz; S/N 80 dB; THD <5% @ 1 kHz; 4 ohm imp 27 lb/pr. .... \$260/pr

### M/90 Plus Double Woofer Speaker

Features 2 4.5" woofers; and 1" dome tweeter. FR 50-30,000 Hz; sens 88 dB SPL/W/m; 4-6 ohm imp; max power 20 W continuous, 100 W peak. 12.88 x 5.25 x 5.5 in; 30 lb/pr. .... \$220/pr

### Dynamite M/80 Plus Speaker

Acoustic-suspension bookshelf speaker with automatic circuit breaker to guard against speaker damage. Features dual-active 4.5" woofers, 1" dome tweeter. FR 50-30,000 Hz  $\pm$  3 dB; min power 10 W/rms; max power 100 music; imp 6 ohms. 8 lb. 5.25 x 12 x 5.25 in. .... \$180/pr

### M/60 Plus 2-Way Speaker

Features 1" dome tweeter; 4.5" woofer. FR 100-30,000 Hz; sens 84 SPL/W/m; imp 8 ohms nom, 6 ohms min; power range 15-75 W music. 8.5 x 4.75 x 5.5 in. .... \$135/pr

## LASER SPEAKERS

### Laser Signature Reference 1200 Speaker

Floor-standing 2-way speaker including bottom-firing subwoofer; 12" sub bass; dome tweeter; 8" midbass; circuit-overload protection; FR 22-20,000 Hz  $\pm$  3 dB; min power 25 W rms; max power 200 W rms; sens 97 dB. High-lustre black finish with solid oak burl top and bottom. 34.75 x 15.25 x 15.5 in. .... \$750 ea

### Laser Signature Reference 1000 Speaker

Floor-standing 2-way speaker including bottom-firing subwoofer; 10" sub bass; dome tweeter; 6.5" midbass; circuit-overload protection; FR 25-20,000 Hz  $\pm$  3 dB; min power 25 W rms; max power 150 W rms; sens 97 dB. High-lustre black finish with solid oak burl top and bottom. 35.75 x 13.25 x 15.5 in. .... \$600 ea

### FXT-8 MKVII 2-Way Speaker

2-way bookshelf bass-reflex speaker; 8" bass; dome tweeter; circuit-overload protection; FR 35-20,000 Hz  $\pm$  3 dB; min power 35 W rms; max power 125 W rms; sens 92 dB. High-lustre black finish. 19 x 10 x 11 in. .... \$225 ea

### FXT-6 2-Way Speaker

2-way bookshelf bass-reflex speaker; 6.5" bass; dome tweeter; circuit-overload protection; FR 40-20,000 Hz  $\pm$  3 dB; min power 35 W rms; max power 100 W rms. sens 91 dB. Black finish. 15 x 8 x 10 in. .... \$175 ea

## LAZER-TECH SPEAKERS

### LT12 Tower Monitor Speaker

Features 12" poly woofer; 4.5" extended-range driver; 1" soft-dome tweeter; separate isolation chambers for bass and midrange drivers; extensive internal bracing; 18x sloped-front sound plane; twin rear-firing tuned ports; 3-way computer-matched crossover network. Rosewood or teak finish with removable black grilles. Imp 8 ohm; FR 32-25,000 Hz; sens 93 dB SPL/W/m; crossover 700 & 4,000 Hz; min power 10 W; max power 250 W. 46.25 x 14 x (6 x 12.5) in; 90 lb ea. .... \$1,395/pr

LT10. Has the same design and features as LT12 but uses 10" polypropylene bass driver; 40 x 12.5 x (6 x 11.5) in; 68 lb. .... \$1,195/pr

### LP8 3-Way Speaker

46" tall twin ported 3-way panel system featuring 2-8" translucent cone bass drivers with 30 oz magnet; same drivers and tweeters as LT12 with additional tweeter; separate midrange, bass and tweeter isolation chambers; 3-way computer designed crossover network; fuse protection circuit; black removable grilles; input connections for cable; sens 93 dB; FR 30-25,000 Hz; imp 8 ohm; 28 x 19.5 x 5.5 in; 55 lb; oak, teak, rosewood, walnut, white rosewood or black formica finish. .... \$1,250  
**LP8A.** A short, wide version of the LP8. Has no rear mount horn but rather 2-1" soft dome tweeters on front sound panel; slightly sloped stand; all other features are same as LP8; 28 x 19.5 x 5.5 in; 55 lb. .... \$1,195

## LENOXX

### SP-200 Mini Personal Stereo Speakers

Passive speaker system. Features metal mesh grill; Alnico drivers; 3.5 x 2.5 x 1.75 in. .... \$15

## LINN PRODUCTS

### DMS Isobarik Floor-Standing Speaker

Isobarik-loading 3-way speaker with 12", 9" woofers, 5" midrange, two 0.75" dome tweeters. Can be triamped. FR 25-20,000 Hz  $\pm$  1.5 dB; crossovers at 375 and 3 kHz; instantaneous dynamic range 54 dB; imp 4 ohms; power range 50-500 W; 30 x 15 x 16.5 in. .... \$3,995/pr

### S.A.R.A. Isobarik Bookshelf Speaker

Isobarik-loading 2-way speaker with two 8" woofers, 0.75" dome tweeter. Cast structural foam housing. FR 36-20,000 Hz  $\pm$  2 dB; imp 4 ohms; 17 x 13 x 10 in. .... \$1,695/pr

### K.A.N. Acoustic-Suspension Speaker

2-way bookshelf speaker with 5" woofer, 0.75" dome tweeter. FR 70-20,000 Hz  $\pm$  3 dB; imp 8 ohms; 12 x 7.5 x 6.5-in. .... \$695/pr

### Index Acoustic-Suspension Speaker

Floor or bookshelf placement; 8" KEF B200 cone woofer; 1" dome tweeter; cabinet of full 0.75" high-density particle board; 50 strand 20 amp cable. FR 60-20,000 Hz  $\pm$  3 dB; power range 15-50 W; sens 87 dB SPL/W/m; imp 8 ohms. 17 x 11 x 8-in; 17 lb; black woodgrain. .... \$525/pr

## MAGNASPHERE BY MAGNAT

*Delta II, Gamma, and Beta speakers have soft-metal domes; ribbon-wire voice coils of oxygen-free copper wound on aluminum core for better heat dissipation and power handling; spherical, baffle-free midrange and tweeter spheres for omnidirectional dispersion; black perforated steel grilles.*

### Delta II Floor-Standing Speaker

6-sided acoustic-suspension speaker with 6 5.25U long-throw woofers; gray or black enamel. FR 32-29,000 Hz  $\pm$  3 dB; power range 30-150 W; imp 4 ohms; sens 88.5 dB SPL/W/m; 13.8 x 44 x 13.8 in; 65 lb. .... \$3,290/pr

### Gamma Floor-Standing Speaker

4-sided pyramid-shaped speaker with 2-8" woofers, 2-5.25" midwoofers (1 front, 1 back); European mahogany or black-oak veneer. FR 32-29,000 Hz  $\pm$  3 dB; power range 30-150 W; imp 4 ohms; sens 88 dB SPL/W/m; 14 x 50 x 14 in; 67 lb. .... \$2,490/pr

### Sigma 1000 Floor-Standing Speaker

Floor-standing column speaker employing heavy duty cast aluminum drivers. Driver frames are buffed on industrial-grade diamond polishing machines.



# SPEAKERS

European grade A walnut or black oak veneers. Top plate is 8 layer thick hand-finished lacquer. 3-way vented system using two long throw 8" woofers; 2.75" midrange and patented 1" soft-metal dome tweeter; FR 32-27,000 Hz  $\pm$  3 dB; power range 25-200 W/ch; imp 4 ohm; sens 88 dB/W/m; 11.5 x 42 x 11 in. .... \$2,190/pr

## Beta Floor-Standing Speaker

4-sided pyramid-shaped speaker with 8" woofer, 5.25" midwoofer. European mahogany or black-oak veneer. FR 37-29,000 Hz  $\pm$  3 dB; power range 30-120 W; imp 4 ohms; sens 87 dB SPL/W/m; 13 x 43 x 13 in. .... \$1,990/pr

## Magnastar System

3-piece satellite/subwoofer system featuring passive subwoofer using 2-8" woofers operating in compound principle, mated to 2 MSP 10 minispeakers; FR 36-27,000 Hz  $\pm$  3 dB; power range 25-150 W/ch; imp 4 ohm; sens 88 dB/W/m; magnastar subwoofer 12 x 10 x 20 in; 5.7 x 8.9 x 6.9 in. .... \$795

## MSP Series Speakers

*Acoustic-suspension and bass reflex speaker system with ribbon-wire voice coils; soft-metal dome tweeters; baffles electrostatically coated with flocking to reduce high-frequency ripples; tweeters and midranges cooled with ferrofluid; cabinets of extra-heavy-duty high-density multi-layer wood with internal bracing.*

**MSP 300.** Floor-standing speaker with 2-8" long-fiber-pulp woofers, 3" cone/dome midrange, 1" tweeter; European walnut or black-oak veneer, top plate 8-layer hand-finished black lacquer. FR 32-29,000 Hz  $\pm$  3 dB; power range 25-150 W; imp 4 ohms; sens 88 dB SPL/W/m; 11.5 x 42.3 x 11 in; 60 lb. .... \$1,690/pr

**MSP 110.** Floor-standing speaker with 8" long-fiber-pulp woofer, 3" cone/dome midrange, 1" tweeter; European walnut or black-oak veneer, top plate 8-layer hand-finished black lacquer. FR 39-29,000 Hz; power range 25-120 W; imp 4 ohms; sens 88 dB SPL/W/m; 11.5 x 31 x 11 in; 42 lb. .... \$1,090/pr

**MSP 70.** Bookshelf speaker with 10" woofer, 2.75" midrange, 1" tweeter; black woodgrain vinyl. FR 39-29,000 Hz  $\pm$  3 dB; power range 25-100 W; imp 4 ohms; sens 90 dB SPL/W/m; 12.6 x 22.9 x 11.5 in; 33 lb. .... \$790/pr

**MSP 60.** Bookshelf speaker with 8" woofer, 2.75" midrange, 1" tweeter; black woodgrain vinyl. FR 41-29,000 Hz  $\pm$  3 dB; power range 25-90 W; imp 4 ohms; sens 89 dB SPL/W/m; 11.5 x 20.1 x 10.5 in; 28.6 lb. .... \$750/pr

**MSP 50.** Bookshelf speaker with 8" woofer, 1" tweeter; black woodgrain vinyl. FR 45-29,000 Hz  $\pm$  3 dB; power range 25-80 W; imp 4 ohms; sens 88 dB SPL/W/m; 10.7 x 17.4 x 9.5 in; 22 lb. .... \$550/pr

## Monitor Series Speakers

*Bookshelf acoustic-suspension 3-way speakers with low-resonance, high-rigidity diaphragms designed for low coloration. Crossover networks use low-dissipation capacitors designed for improved imaging and texture. Magnat Ribbon-Wire voice coils used in tweeter for 40% increased winding density and improved transient response. All woofers are cone shaped; all midranges are 4-inch cones; all tweeters are dome shaped. All monitor series speakers feature cabinets finished in black wood-grained vinyl with black metal grilles.*

**C.** 8" long-throw woofer; 4" midrange; 1" soft-metal tweeter. FR 46-29,000 Hz  $\pm$  3 dB; power range 10-90 W rms; sens 90 dB SPL/W/m; imp 4-8 ohms. 14.62 x 22.5 x 13.75 in; 22 lb. .... \$470/pr

**B.** 8" long-throw woofer; 4" midrange; 1" soft-metal tweeter. FR 54-29,000 Hz  $\pm$  3 dB; power range 10-80 W rms; sens 90 dB SPL/W/m; imp 4-8 ohms. 14.12 x 20.5 x 14.12 in; 20 lb. .... \$390/pr

**A.** 8" long-throw woofer; 4" midrange; 0.75" Suproneyl tweeter. FR 54-20,000 Hz  $\pm$  3 dB; power range 10-60 W rms; sens 90 dB SPL/W/m; imp 8 ohms. 14.12 x 19.36 x 14.12 in; 17.5 lb. .... \$300/pr

## MAGNEPAN

### Magneplanar Tympani-IVa

Planar-magnetic speaker with reduced-mass midrange driver. .00025". Features 5-ft-long, 2.5-microns-thick foil tweeter. 3 panels per side; 71 x 18 x 1 in. .... \$3,800/pr

### Magneplanar MG-IIIa Speaker

Floor-standing full-range bipolar panel speaker with planar-magnetic and ribbon-driver design. Can be bi-amplified. Drivers are 1 planar-magnetic woofer (620" sq.); 1 planar-magnetic midrange (170" sq.); 1 line-source 5" bipolar ribbon tweeter (14.25" sq.). Imp 4 ohms; off-white cloth. oak frame; 55 lb ea \$1,995/pr

### Magneplanar MG 2.5/R Speaker

Floor standing full range bipolar panel speaker with planar/magnetic woofer and 42" long ribbon tweeter. 2 way design. optional grille fabrics, oak side rails. .... \$1,550/pr

### Magneplanar MG-IC Speaker

Floor-standing 2-way speaker with Magneplanar woofer and tweeter. Features oak side rails; off-white fabric grille. FR 45-18,000 Hz  $\pm$  4 dB; crossover 1.6 kHz; sens 82-dB SPL/W/3 ft.; power range 40-200 W rms; imp 5 ohms purely resistive; 60 x 22 x 2 in. .... \$880/pr

### Magneplanar SMGa Speaker

Full-range 2-way speaker with 0.5-mil diaphragm driven by Magneplanar magnetic field. Features oak side rails; optional grille fabric. FR 50-16,000 Hz  $\pm$  4 dB; power range 20-100 W rms; imp 4 ohms purely resistive; crossover 2.4 kHz; 48.56" h x 24.25" w x 1.75" d; 70 lb. .... \$495/pr

## MARANTZ

### SP 1515 Ported Speaker

Floor-standing speaker with 15" woofer; 5" ferrofluid cone midrange; 3" ferrofluid cone tweeter; sculptured furniture-style cabinet. Max power 165 W; sens 92 dB SPL/W/m; imp 8 ohms; Bartonwood vinyl finish; 18 x 32.5 x 16.5 in; 47 lb. .... \$400/pr

### SP124 Tower Speaker

3-way speaker with 12" woofer; 12" passive radiator; 4" midrange with ferrofluid; 3" tweeter w/ferrofluid. Max power 170 W; sens 91 dB/W/m; imp 8 ohms. Oak vinyl finish; 37.75 x 14.75 x 13.5 in; 33.7 lb. .... \$400/pr

### SP104 Tower Speaker

3-way speaker with 10" woofer; 10" passive radiator; 4" midrange with ferrofluid; 3" tweeter w/ferrofluid. Max power 135 W; sens 90 dB/W/m; imp 8 ohms. Oak vinyl finish; 37.75 x 13 x 11 in; 30 lb. \$340/pr  
SP103. Same as above without passive radiator. .... \$300/pr

### SP 1200 Ported Speaker

Floor-standing speaker with 12" woofer; 4" ferrofluid cone midrange; 3" ferrofluid cone tweeter. Max power range 165 W; sens 90 dB SPL/W/m; imp 8 ohms. 15 x 29.5 x 11.5 in; 32 lb. .... \$300/pr

### SP 1000 Ported Speaker

Features 10" woofer; 4" ferrofluid cone midrange; 3" ferrofluid cone tweeter. Max power range 130 W; sens 89 dB SPL/W/m; imp 8 ohms. Bartonwood vinyl finish; 13 x 27 x 11 in; 25 lb. .... \$240/pr

### SP 800 Ported Speaker

Features 8" woofer; 4" ferrofluid cone midrange; 2" ferrofluid cone tweeter. Max power range 60 W; sens 89 dB SPL/W/m; imp 8 ohms. Bartonwood vinyl finish; 13 x 26 x 8.5 in; 15 lb. .... \$150/pr

### SP208 Ported Speaker

2-way speaker system with 8" woofer and 2" tweeter. Max power 50 W; sens 90 dB/W/m; imp 8 ohms.

Available in oak vinyl finish; 18.75 x 10.63 x 8.38 inches; 10.5 lb. .... \$120/pr

## MARTIN-LOGAN

### Statement Electrostatic Speaker System

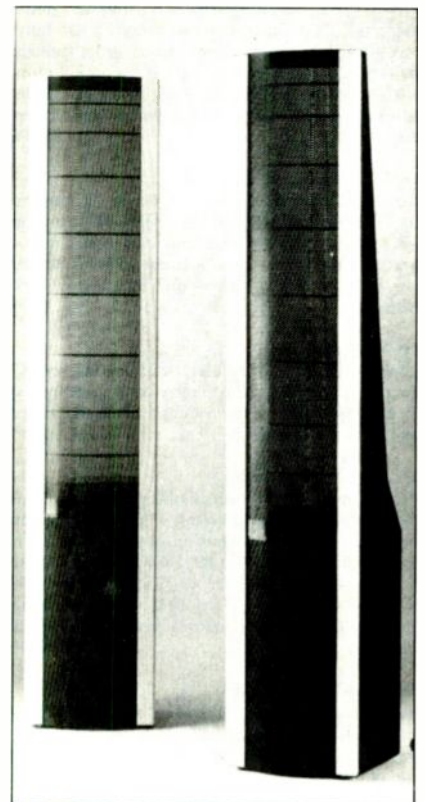
Floor-standing system consisting of 2 visually-transparent curvilinear electrostatic panels used in conjunction with two woofer towers and blended by an electronic crossover. Each electrostatic element measures 3 x 6-inches and is curved and housed in a massive frame; each woofer tower houses four 12" woofers mounted in individually sealed anti-resonant chambers; dual-mono crossover consists of four separate chassis; 2 chassis contain power supplies; 2 chassis contain crossover using a proprietary discrete class-A differential FET buffer topology and pure-current source voltage regulation system; can play at volumes up to 120 dB. FR 16-25,000 Hz  $\pm$  1.5 dB; power range 50-1,000 W; sens 93 dB SPL/W/m; imp 6 ohms. Electrostatic section: 39.5 x 84 x 6 in. Woofer towers: 15 x 84 x 30 in. Available in a variety of finishes. System weighs 1/2-ton. .... \$40,000

### Monolith Electrostatic Speaker

Floor-standing curvilinear electrostatic panel speaker mounted atop a tuned subwoofer box. Designed for wide dispersion without the use of delay lines of lenses. Constant voltage crossover provides phase coherence. Features 2" x 4" electrostatic cell for 100-24,000 Hz and a 12" polypropylene-cone subwoofer with 2" voice coil that is down 3 dB at 16 Hz. FR 28-24,000 Hz  $\pm$  2 dB; power range 30-500 W; sens 90 dB SPL/W/m; imp 8 ohms. Available in a variety of finishes. 25 x 75 x 13.5 in; 165 lb ea. .... \$5,000/pr

### Sequel Electrostatic Speaker

Floor-standing electrostatic/subwoofer system. Features visually transparent electrostatic transducer that operates from 200-24,000 Hz; 30 degrees seam



less horizontal dispersion in a vertical line-source format; 1" x 4" electrostatic cell; super-low-mass 10" subwoofer in a tuned chamber with a matrix voice coil to create linear field in large excursion modes. FR

# S P E A K E R S

26-24,000 Hz  $\pm$  3 dB; power range 30-300 W; sens 89 dB SPL/W/m; imp 6 ohms. Oak and black finish. 14.5 x 74 x 13.5 in; 110 lb ea. . . . . \$2,250/pr

## The CLS Electrostatic Speaker

Floor-standing curved electrostatic speaker. Features wide-dispersion format for full-range reproduction; 2" x 4" electrostatic cell to reproduce all frequencies from 50-22,000 Hz; 30 degrees seamless horizontal dispersion; 4' line-source vertical; arc-free diaphragm; see-through appearance. FR 50-22,000 Hz  $\pm$  2 dB; power range 20-150 W; sens 85 dB SPL/W/m; imp 6 ohms. Available in a variety of finishes. 26 x 48 x 2 in; 50 lb. . . . . \$2,490/pr

## MBQUART

### MB 980S 3-Way Speakers

Floor-standing, 3-Way acoustic suspension column speakers. Features 1" titanium dome with ferrofluid tweeter; 2" aluminum dome midrange; 2-8" butyl suspension, long throw woofers; crossover frequency 350 Hz; min. power 40 W; imp 4 ohms; FR 34-32,000 Hz; sens 88 dB/W/m; 11 x 39.5 x 11 in; 57 lb 3 oz; genuine walnut or oak, white or grey laquer. (special finishes at extra cost) . . . . . \$2,399

### MB 610S Column Styled Loudspeakers

3-way acoustic suspension column loudspeakers. Feature 1" multi-layered, compressed wood; ceramic magnets; fluid cooled tweeter; computer optimized bass response; 1" titanium dome tweeter; 2" supronyl dome midrange; 8" butyl suspension, long throw woofer; crossover frequencies 400 Hz/2900 Hz; min. power 45 W/ch; imp 4 ohm; FR 39-32,000 Hz; sens 86 dB/W/m; 10.4 x 33.9 x 10.2 in; 38 lb 10 oz; genuine walnut or oak, white, black or grey laquer. . . \$1,499

### MB 480 Convex Speakers

3-way acoustic suspension floor standing loudspeaker. Features front baffle curved convexly; dispersion >180 degrees radiating surface; 1" titanium dome tweeter; 2" aluminum dome midrange; 10" butyl suspension, long throw woofer; crossover frequencies 500 Hz/2500 Hz; min. power 35 W/ch; imp 4 ohm; FR 32-32,000 Hz; sens 87 dB/W/m; 12.6 x 22 x 14 in; 37 lb 6 oz; genuine walnut or oak, white or black laquer finishes . . . . . \$1,199

### MB 350S Loudspeakers

Bass reflex speakers feature 8" woofer; 1" titanium dome tweeter; FR 38-32,000 Hz; sens 89 dB; min amp power 20 W; crossover frequency 1500 Hz; imp 4 ohm; 10.2 x 32 x 11 in; 40 lb; comes in black, white, oak, walnut, cherry, rosewood, mahogany, pine finishes . . . . . \$999

### MB 310 Subwoofer

Subwoofer features 12" woofer; FR 25-100 Hz; sens 87 dB; min. amp power 50 W; crossover frequency 100 Hz; 16 x 19 x 15 in; 40 lb; walnut, oak, matte laquer black or white finishes . . . . . \$849

### MB 390 3-Way Speakers

3-way acoustic suspension bookshelf speaker. Features 1" titanium dome tweeter; 4" butyl suspension midrange; 10" butyl suspension, long throw woofer; crossover frequencies 400 Hz/1800 Hz; min. power 35 W/ch; imp 4 ohm; FR 40-32,000 Hz; sens 88 dB/W/m; 12 x 20.5 x 12 in; 28 lb 10 oz; comes in genuine walnut or oak, matte laquer white or black finishes . . . . . \$849

### MB 280 2-Way Speakers

2-way acoustic suspension bookshelf speaker. Features 1" titanium dome tweeter; 8" butyl suspension, long throw woofer; crossover frequency 1500 Hz; min. power 20 W/ch; imp 4 ohm; FR 50-32,000 Hz; sens 88 dB/W/m; 10.5 x 17.25 x 10.25 in; 22 lb; walnut, oak, white, or black finishes. . . . . \$549

### MB 220 2-Way Speakers

2-way acoustic suspension bookshelf speaker. Fea-

tures 1" titanium dome tweeter; 6.5" butyl suspension, long throw woofer; crossover frequency 1500 Hz; min. power 20 W/ch; imp 4 ohm; FR 60-32,000 Hz; sens 87 dB/W/m; 9 x 12 x 8 in; 11 lb; comes in genuine walnut or oak, matte laquer black or white finishes . . . . . \$449

## McINTOSH

### XRT-22 Speaker System

2-piece speaker consisting of a bass cabinet containing 2 12" woofers and an 8" midrange, and a tweeter column containing 23 1" tweeters. Bass cabinet: 40.75 x 25.75 x 12.75 in; tweeter column: 79.5 x 10.5 x 1.63 in; oak finish. . . . . \$4,000 ea  
Walnut finish . . . . . \$4,250

### XRT18 Speaker System

2-piece speaker consisting of a bass cabinet containing a 12" woofer and 6" midrange and a high-frequency column frame containing sixteen 1" dome tweeters. Features 3-ampere fast acting fuse for woofer and midrange and a 1.25-ampere fuse for tweeters. Cabinet constructed of 48-pound density fiber board with walnut veneer exteriors. Sens 86 dB SPL/W/m; max power 150 W continuous program power, 500 W peak; min power 30 W; imp 8 ohms; crossover frequencies 350 and 1,500 Hz. Bass cabinet 27.22 x 17.5 x 11.75 in, tweeter column 57.31 x 10.5 x 1.63 in; total weight 92 lb . . . . . \$2,250 ea

### XR 1052 4-Way Speaker

4-way speaker. Features 10" woofer with copper voice coil; 5" midrange isolated from woofer; 1" dome tweeter with copper-wire voice coil centered and suspended with custom surround; 15" passive radiator with accurately adjusted moving mass; built-in crossover with points at 55, 450, and 1,300 Hz; cabinet made of high density particle board; imp 8 ohms. FR 20-20,000 Hz . . . . . \$1,252 ea

### XD 717 3-Way Speaker

Floor-standing speaker with 12" woofer, 6.5" midrange, and 1" dome tweeter. Sens 87 dB SPL/W/m; recommended power handling 30-100 W; imp 8 ohms; crossover frequencies 350 and 1,000 Hz. Cabinet constructed of 0.75" high-density particle board with internal bracing and airtight assembly. Walnut veneer protected by oil-like multi-coat hand-rubbed laquer finish. 37.75 x 17.5 x 11.88 in \$799 ea

### XD 715 3-Way Speaker

Floor-standing speaker with 10" woofer, 5" midrange, and 1" dome tweeter. Sens 87 dB SPL/W/m; max power 100 W program noise; min power 30 W; imp 8 ohms; crossover frequencies 350 and 1,000 Hz. Cabinet constructed of 0.75" high-density particle board with internal bracing and airtight assembly with walnut veneer. 30 x 14.75 x 10.06 in . . \$599 ea

### XL1 2-Way Compact Speaker

Bookshelf speaker with 6" woofer, 1" dome tweeter, and 1,000 Hz crossover network. Features 0.6-ampere fast-acting fuse. Max power 80 W program noise, 200 W peak; min power 30 W; imp 8 ohms; sens 85 dB SPL/W/m. Cabinet constructed of 0.75" high-density particle board with internal bracing and airtight assembly . . . . . \$525/pr

### XL 1W Subwoofer

Dual-voice-coil subwoofer designed to compliment and extend performance of McIntosh XL 1 speaker. Features 12" woofer; two 1.5-ampere fast-acting fuses; walnut veneer cabinet protected by an oil-like multi-coat hand-rubbed laquer finish. Sens 85 dB SPL/W/m; max power 100 W program noise, 250 W peak; min power 30 W; crossover frequency 90 Hz. 32.22 x 17.5 x 11.75 in. . . . . \$549 ea

## MERIDIAN BY MADRIGAL

### M100 3-Way Powered Speaker

Inter-Active speaker with 4 power amps (3-70 W/ch,

1-35 W/ch) driving 2-5" woofers, 2-5" midranges, 1-2" dome tweeter. 0.75" birch cabinet of low resonance with rear-loaded passive radiator. 39 x 16 x 18 in; 70 lb ea; walnut . . . . . \$7,400/pr  
Rosewood finish. . . . . \$8,000/pr

### M20 2-Way Powered Speaker

Ported speaker with two 5" woofers, 2" tweeter, power supply, 2 power amps in low-resonance cabinet; 0.75" A-quality birch plywood cabinet; all-metal stand with resonance damping available. FR 38-20,000 Hz  $\pm$  3 dB; max output 105 dB; 20 x 15 x 7 in. Walnut or teak finish; with amps . . . \$2,750/pr  
Rosewood finish; with amps . . . . . \$3,000/pr

### M30 2-Way Powered Speaker

Compact Inter-Active speaker with 5" woofer, 1.25" tweeter; time-delay correction; power supply; power amps. FR 38-20,000 Hz  $\pm$  3 dB; max output 100 dB free-standing, up to 103 dB on shelf; 14.5 x 12 x 7 in. Walnut, teak, or black ash finish; with amps . . . . . \$1,950/pr

## MIRAGE ACOUSTICS

*All speakers are ported; nominal imp 6 ohms (min 4); black knit grilles; dome tweeters with crossover point of 2,200 Hz.*

### M1 Floor-Standing Speaker

28" polypropylene woofers (1 front 1 rear) with 38-oz magnets crossing over to 2 4" cone midranges (1 front, 1 rear at 300 Hz; 2 0.75" soft dome tweeters (1 front, 1 rear); black lacquer. FR 20-22,000 Hz  $\pm$  3 dB; min power 100 W; max power 400 W; sens 86 dB SPL/W/m; imp 6 ohms; 120 lbs; 60 x 19.5 x 9-in. . . . . \$4,000/pr

### M2 Floor Standing Speaker

10" polypropylene filled woofer crossing over at 500 Hz to 2-4" polypropylene cone midranges (1 front 1 rear) at 2200 Hz crossing over to 2-.75" soft dome tweeters (1 front 1 rear); black high-gloss polyester finish. FR 26-2,200 Hz  $\pm$  2dB; min power 75 W; max 200 W; sens 87 dB SPL/W/m; imp 6 ohms; 52.5 x 18 x 80-in; 160 lb . . . . . \$3,000/pr

### 760 2-Way Bass Reflex Speakers

2-8" carbon filled polypropylene mid/bass units with butyl surround crossing over at 2,200 Hz to a 1" ferrofluid cooled soft dome tweeter. FR 30-20,000 Hz  $\pm$  3 dB; sens 89dB SPL/W/m; power range 30-200 W; imp. 6 ohms; 37 x 11 x 14-in; 62 lbs ea . \$900/pr

### 460 2-Way Speaker

8" woofer; 1" dome tweeter; black vinyl. FR 35-20,000 Hz  $\pm$  3 dB; sens 88 dB SPL/W/m; power range 15-120 W; 25 x 10 x 11-in; 32 lb ea. . . . . \$500/pr

### 360 2-Way Speaker

8" woofer; 0.75" tweeter; black vinyl. FR 45-20,000 Hz  $\pm$  3 dB; sens 88 dB SPL/W/m; power range 15-100 W; 20 x 10 x 9-in; 20 lb each. . . . . \$375/pr

### 260 2-Way Speaker

6.5" woofer; 0.75" tweeter; black vinyl. FR 50-20,000 Hz  $\pm$  3 dB; sens 88 dB SPL/W/m; power range 15-70 W; 15 x 9 x 9-in; 14 lb ea. . . . . \$250/pr

## MISSION ELECTRONICS

### Argonath Floor-Standing Speaker

2-way speaker with time-aligned drivers and transverse-folded cabinet. Optimum placement near rear wall; 2 reinforced homopolymer 8" cone woofers; 1" super-ellipse cavity-loaded tweeter; spikes. FR 35-20,000 Hz  $\pm$  3 dB; power range 50-200 W; sens 94.5 dB SPL/W/m; imp 4 ohms; walnut, gray, black; 50 lbs; 11 x 38 x 12 in. . . . . \$1,799/pr

### Freedom 2-Way Speaker

Time-aligned drivers; integral locking stand; transverse-folded cabinet with visco-elastic dampings;



# SPEAKERS

optimum placement near rear wall; 8" reinforced homopolymer cone woofer; 1" super-ellipse cavity-loaded tweeter. FR 40-20,000 Hz  $\pm$  3 dB; min power 20 W; max power 150 W; sens 92 dB SPL/W/m; imp 8 ohms; black, grey, walnut; 28 pounds; 11 x 24.5 x 12 inches ..... \$1,199/pr

## Renaissance Two-Way Speaker

Integral locking stands; transverse-folded cabinet with visco-elastically dampened walls; 8" polypropylene cone woofer; 0.75" polymer-dome tweeter with ferrofluid; crossover frequency 2,400 Hz. FR 40-20,000 Hz  $\pm$  3 dB; nominal imp 8 ohms; power range 20-125 W/ch; sens 90 dB SPL/W/m; 10 x 21.6 x 11 in; 23 lbs/ea; black/walnut ..... \$699/pr

## 707 Bass-Reflex Speaker

2-way speaker with limestone/polypropylene front baffle board; steel-reinforced 8" paper woofer; 0.75" ferrofluid dome tweeter. FR 50-20,000 Hz  $\pm$  3 dB; min power 20 W, max power 100 W; sens 92 dB SPL/W/m; imp 8 ohms; black and walnut; 17.7 lb; 10 x 19 x 11 in. .... \$499/pr

## 700 Leading Edge Acoustic-Suspension Speaker

7" high rigidity plastiflex cone woofer and 0.75" ferrofluid cooled dome tweeter; injection-molded polypropylene and limestone baffle board. FR 50-20,000 Hz  $\pm$  3 dB; min power 15 W rms; max power 100 W rms; sens 90 dB SPL/W/m; imp 6 ohms; black, walnut ..... \$349/pr

## MITSUBISHI

### M-S5100 Home Theater Speaker System

12" three-way floorstanding speaker features 12" high-polymer laminate woofer; 5" high-polymer laminate midrange; 1" pure titanium dome tweeter; FR 35-27,000 Hz  $\pm$  6 dB; 150 W continuous 600 W peak power handling. .... \$1,100/pr

## M&K

### MX-1000 Pedestal Subwoofer

Magnetic shunt powered pedestal subwoofer. Internally amplified acoustic-suspension subwoofer; 2-12" high-performance drivers; magnetic design and pedestal shape allow use as stand for large monitor televisions; 26 x 28 x 22 in; 115 lb ..... \$1,395

### Satellite 1B 2-Way Speaker

Acoustic-suspension speaker with 2-5" polypropylene woofers and 2-1" soft-dome tweeters. Features 36 tonal balances through midrange; tweeter character switches. Walnut or oak finish with black grille. FR 70-22,000 Hz  $\pm$  3 dB; power range 7.5-400 W; imp 4 ohms. 21 x 7.75 x 7.62 in; 19 lb ..... \$725/pr

### Satellite 2B 2-Way Speaker

Acoustic-suspension speaker with 6.5" polypropylene woofer and 1" soft-dome tweeter. Features selector for 36 tonal balances; midrange, treble character switches. Walnut or oak finish with black grille. FR 65-20,000 Hz  $\pm$  3 dB; power range 15-100 W. 10.5 x 6.5 x 7 in; 9 lb ..... \$550/pr

### SX-4 2-Way Satellite Speaker

Acoustic-suspension speaker with 2-5" woofers and 2-1" soft-dome tweeters. Features selector for 4 tonal balances via multiple inputs. Black vinyl finish. FR 70-20,000 Hz  $\pm$  3 dB ..... \$495/pr

### Satellite 3B 2-Way Speaker

Acoustic-suspension speaker with 5" polypropylene woofer and 1" soft-dome tweeter. Features selector for 4 tonal balances via multiple inputs. Black finish with black grilles. FR 100-20,000 Hz  $\pm$  3 dB; power range 15-100 W. 10.5 x 7 x 6.5 in; 9 lb. .... \$395/pr Walnut veneer with black grilles. .... \$450/pr

### SX-7 2-Way Satellite Speaker

Bookshelf acoustic-suspension speaker with circuit-breaker protection. Features cast-aluminum box with

perforated metal grille; 4" paper-cone midrange; 0.75" soft-dome tweeter. FR 100-20,000 Hz  $\pm$  3 dB; power range 5-100 W; sens 87 dB SPL/W/m; imp 4 ohms. Black finish. 4.5 x 7.36 x 4.5 in; 6 lb \$240/pr

## Subwoofers

### V1B Subwoofer

Internally amplified subwoofer with 12" polypropylene driver. Features preamp, power amp inputs; active filtering at 24 dB/octave with adjustable roll-off point. Walnut or oak finish with black grille. FR 18-125 Hz  $\pm$  3 decibels. 18.75 x 17.75 x 15.75 inches; 50 pounds. .... \$850 ea  
V2B. Similar to model V1B except less powerful. 43 pounds ..... \$695 ea  
V3B. Similar to V2B except less powerful and black painted enclosure. 17.5 x 17.5 x 14.5 in; 43 lb \$595 ea

### VX-4 Subwoofer

Internally amplified subwoofer with 12" driver and 50-W continuous power output. Features adjustable low-pass filter. Black vinyl finish. FR 40-125  $\pm$  3 dB ..... \$440 ea

### VX-7 Subwoofer

Acoustic-suspension subwoofer with specially designed 50-W amp and 8" paper-cone woofer. FR 50-80 Hz  $\pm$  3 dB; max power 50 W internally amplified. Black finish. 10 x 11.75 x 9.5 in; 25 lb ..... \$360 ea

## Accessories

### 1P-1S Passive Electronic High-Pass Filter

Line-level electronic high-pass filter for biamping with M&K subwoofers. Available in 8.5" front panel or 19" rack mount. 100 Hz crossover point at 18 dB/octave. With bypass switch ..... \$325  
Without bypass switch. .... \$300

### RC-1 Satellite/Subwoofer Remote Control

Allows adjustment of all available tonal characteristics remotely. Features midrange, treble character switches; 100-Hz filter or full-range satellite operation; satellite/subwoofer phase correction; subwoofer level control. 8.75 x 7.88 x 2.75 in; 3 lb ..... \$185

### Satellite Speaker Stand

Stand for M&K satellite speakers. Allows for permanent attachment of satellite to stand. Walnut/oak veneers, black finishes. .... \$95/pr

### V Filter

Plug-in high-pass filter for biamping with M&K subwoofers. 100 Hz crossover at 6 dB/octave. 3 versions to match amplifier input impedance \$50/pr

## MONITOR AUDIO BY KEVRO

### R952/MD Reference Monitor

Floor-standing, sealed enclosure speakers. Feature 1" aluminum-dome tweeter; 2-6" polypropylene woofers; FR 45-20,000 Hz  $\pm$  3 dB; imp 8 ohm; sens 89 dB/W/m; amp power 15-180 W; crossover 6 dB/octave slope; foam lined cabinets; 13.5 x 9 x 12.5 in; 88 lb; kenya black, oak, walnut, or black ash finish ..... \$1,549/pr

### R852/MD Speaker

Closed box speakers feature 1" aluminum dome tweeter; 8" polypropylene woofer; FR 50-20,000 Hz  $\pm$  3 dB; imp 8 ohm; sens 88 dB/W/m; amp power 15-120 W; foam lined cabinets; 17.75 x 10 x 11 in; 44 lb; kenya black, oak, walnut or black ash finish \$1,149/pr

### R452/MD Loudspeaker

Tuned port speakers feature 1" aluminum dome tweeter; 8" doped paper woofer; FR 50-20,000 Hz  $\pm$  3 dB; imp 8 ohm; sens 91 dB/W/m; amp power 15-150 W; heavy cabinets with 18 mm thick panel construction; inside of cabinets is veneered; 25.25 x 10 x 12.5 inches; 66 pounds; available in walnut, black ash, or oak finish ..... \$1,099/pr



Monitor Audio R952/MD

### R652/MD Loudspeaker

Reflex speakers feature 1" aluminium dome tweeter; 6" polypropylene woofer; FR 50-20,000 Hz  $\pm$  3 dB; imp 8 ohm; sens 89 dB/W/m; amp power 20-120 W; 20.25 x 7.75 x 10.5 in; 44 lb; walnut, oak, black ash finish ..... \$989/pr

### R352/MD Loudspeaker

Reflex speakers feature .75" metal-dome tweeter; 8" woofer; FR 50-20,000 Hz  $\pm$  3 dB; imp 8 ohm; sens 91 dB/W/m; amp power 15-120 W; foam lined cabinet; 25.25 x 10 x 12.5 in; 57 lb; walnut, oak, black ash finish ..... \$899/pr

### R700/MD Loudspeaker

Reflex speakers feature 1" aluminum dome tweeter; 6" polypropylene woofer; FR 55-20,000 Hz  $\pm$  3 dB; imp 8 ohm; sens 89 dB/W/m; amp power 20-100 W; 13.75 x 8.5 x 10 in; 42 lb; walnut, oak or black ash finish ..... \$689/pr

### R300/MD Loudspeaker

Sealed box speakers feature .75" metal-dome tweeter; 8" doped woofer; FR 50-20,000 Hz  $\pm$  3 dB; imp 8 ohm; sens 90 dB/W/m; amp power 15-100 W; cabinets veneered inside/outside; 18.5 x 10.12.5 in; 44 lb; walnut, black ash, or oak finish ..... \$669/pr

### R252 Speaker

Sealed enclosure speakers feature 1" soft-dome tweeter; 8" woofer; FR 55-20,000 Hz  $\pm$  3 dB; imp 8 ohm; sens 90 dB/W/m; amp power 15-80 W; 18.5 x 10 x 9.5 in; 31 lb; black ash or walnut finish ..... \$429/pr

### R100 Speaker

Sealed enclosure speakers feature 1" soft-dome tweeter; 8" woofer; FR 60-20,000 Hz  $\pm$  3 dB; imp 8 ohm; sens 89 dB/W/m; amp power 15-60 W; 15.75 x 10 x 7 in; 25 lb, 5 oz. Available in black ash or walnut finish ..... \$319/pr

## Speaker Stands

MA-30. Fits R100, R252, R300/MD, R700/MD, R852/MD speakers. In black ash, walnut, oak, or Kenya black ..... \$189/pr  
In Rosewood, mahogany, or teak ..... \$269/pr  
MA-40. Fits R352/MD and R452/MD. In black ash, walnut, oak, or Kenya black ..... \$189/pr  
In Rosewood, mahogany, or teak ..... \$269/pr  
MA-50. Fits the R652/MD. In black ash, walnut, oak, or Kenya black ..... \$189/pr  
In Rosewood, mahogany, or teak ..... \$269/pr

# SPEAKERS

## MOREL ACOUSTICS

### Duet 2 Way Double Magnet Speaker

New MDT-33 tweeter, 28 mm soft dome design with double-magnet structure, Hexatech technique winding (aluminum wire, wound hexagonally) and ferrofluid cooled. MW-164 6" double magnet woofer also using the Hexatech voice coil. FR 40-22,000 Hz  $\pm$  2 dB; power handling 150 W rms; 8 x 15 x 12 in; 20 lb. . . . . \$995/pr

### MPL-403-II 3-Way Speaker

Ported floor-standing speaker with "Variovent." 9" free-edge paper-cone woofer; 3" dome midrange; 1.1" dome tweeter. FR 38-25,000 Hz  $\pm$  3 dB; min power 10 W, max power 125 W rms; sens 88 dB SPL/W/m; imp 4-8 ohms; finished in walnut, teak, or black; 21 x 12 x 10 in; 26 lb. . . . . \$750/pr

### MPL-203 2-Way Speaker

2-way linear-phase speaker with sealed cabinet. FR 45-28,000 Hz  $\pm$  3 dB; power handling 150 W; 6" MW-164, double magnet, 3" voice coil woofer; 1.1" ferrofluid-cooled soft-dome MDT-30 tweeter; 8 x 16 x 9.5 in; 18 lb; walnut, red walnut, teak, or black finish. . . . . \$695

### MPL-307 2-Way Speaker

2-way speaker with Variovent Two 9" woofers; 1.1" dome tweeter; power handling 200 W; FR 33-25,000 Hz  $\pm$  3 dB; 13 x 23 x 12 in; 32 lb; walnut veneer finish. . . . . \$540

### MPL-202 II Bookshelf Speaker

Acoustic-suspension linear-phase speaker. FR 60-28,000 Hz  $\pm$  3 dB; min power 10 W, max power 150 W rms; sens 89 dB SPL/W/m; imp 4-6 ohms; in walnut, teak, or black; 8 x 13 x 10 in. . . . . \$445/pr

### CR-7 2-Way Speaker

Acoustic-suspension bookshelf speaker with an asymmetrical cabinet design to eliminate internal standing waves and improve dispersion and flatness of frequency response. Features 6" treated paper-cone woofer with metal grille; 1" soft-dome tweeter with metal grille. Available in mirrored pairs. Black finish. FR 70-25,000 Hz  $\pm$  3 dB; min power 20 W rms; max power 200 W rms; sens 90 dB SPL/W/m; imp 4-8 ohms. 11 x 7.5 x 4.75 x 7 in; 10 lb ea. . . . . \$395/pr

### MPL-201 2-Way Speaker

Acoustic-suspension bookshelf speaker with 9" free-edge paper-cone woofer, 1.1" dome tweeter. FR 48-20,000 Hz  $\pm$  3 dB; power range 10-100 W rms; sens 89 dB SPL/W/m; imp 8 ohms; walnut finish; 10 x 16 x 10 in. . . . . \$285/pr

### Speaker Accessories

#### SDT-2 Floor Stands

20" black metal stand, can be filled with sand or lead shot. . . . . \$98

#### B-7 Mounting Bracket

Mounting bracket for CR-7. . . . . \$40

#### ST-2 Floor Stands

4" black wooden stands. . . . . \$30

## MTX BY MITEK

### ZSE-380 Loudspeaker

Loudspeaker features enclosureless bass transducer module; diffractionless treble transducer module; synchronous time and coincident axial alignment; laterally symmetric transducer mounting; high compression input connectors; discrete module cabling; with ZSE Controller which provides active signal processing for the system; FR 35-25,000 Hz; 250 W pulse power handling; imp 8 ohms; sens 91 dB/W/m; 380 mm woofer; 35 mm tweeter; dark brown polyester grille with solid hardwood inserts; 34 x 17.5 x 27.5 in; 45 lb. . . . . \$1,800

### Pro 215 Floor-Standing Speaker

Bass-reflex speaker with computer-aided Thiele/Small-aligned cabinet. Features 2-15" cone woofers; 2-5" PL-5 cone midranges; 3" horn-loaded tweeter. FR 50-21,000 Hz  $\pm$  3 dB; power range 5-400 W rms; sens 102.2 dB SPL/W/m; imp 4 ohms; heavy-duty aviation carpet; 125 lb; 18.5 x 46.5 x 16 in. . . . . \$800 ea

### Pro 115 Floor-Standing Speaker

Bass-reflex speaker with computer-aided Thiele/Small-aligned cabinet. Features 15" cone woofer, 2-5" PL-5 cone midranges; 3" horn-loaded tweeter. FR 60-21,000 Hz  $\pm$  3 dB; power range 5-200 W rms; sens 99.6 dB SPL/W/m; imp 4 ohms; heavy-duty aviation carpet; 77 lb; 21.25 x 29.75 x 16 in. . . . . \$700 ea

### Pro 210 Floor-Standing Speaker

Bass-reflex speaker with computer-aided Thiele/Small aligned cabinet. Features 2-10" cone woofers; 2-5" PL-5 cone midranges; 3" horn-loaded tweeter. FR 70-21,000 Hz  $\pm$  3 dB; power range 5-300 W rms; sens 101.6 dB SPL/W/m; imp 4 ohms; heavy-duty aviation carpet; 67 lb; 23.5 x 18.25 x 12.5 in. . . . . \$500 ea

### Pro 110 Bass-Reflex Monitor Speaker

Thiele/Small alignment; 10" cone woofer; 4.5" cone midrange; 1" horn-loaded dome tweeter; covered with heavy-duty aviation carpet. FR 75-21,000 Hz; power range 5-100 W rms; sens 94.8 dB SPL/W/m; imp 4/8 ohms; 14 x 18.5 x 12.75 in; 42 lb. . . . . \$400 ea

### TA-2 Loudspeaker

Dual tweeter array system. Features FR 5,000-17,000 Hz; sens 98 dB/W/m; 7 x 12 x 7 in; 27 lb. . . . . \$300 ea

## MUSIC AND SOUND IMPORTS

### Mas 925 III 3-Way Speaker

Floor-standing speaker with 10" polypropylene-cone passive radiator; 8" poly-cone woofer; 1.75" textile-dome tweeter; 0.75" textile-dome tweeter. FR 30-18,000 Hz  $\pm$  3 dB; power range 25-150 W; sens 91 dB SPL/W/m; imp 8 ohms; natural oak, dark oak veneer finishes; 39 lb; 23.5 x 11.88 x 11.88 in. . . . . \$699/pr

## NAD

### 300A 3-Way Speaker

Internally braced acoustic-suspension tower speaker with 10" long-throw woofer with butyl surround, 1.5" midrange, 1" soft-dome tweeter. Large magnets for powerful bass and no overhang. Power range 10-150 W/ch; nominal imp 4 ohms; crossovers at 900 and 3,000 Hz; resonance 45 Hz; sens 90 dB SPL/W/m. 10.75 x 11.5 x 31.5 in; 57 lb. . . . . \$750/pr

200A. Similar to above except no midrange driver and 8" woofer. Crossover at 1,700. Power range 10-120 W/ch. 39 lb. . . . . \$500/pr

## NADY SYSTEMS

### WTS-1 Speaker

Portable self-powered speaker with 15 W cordless amplifier. Features 2 channel FM receiver; microphone; miniature body pack stereo transmitter. Speaker houses 6.5" woofer; 1.5" cone tweeter. 8.5 x 12.75 x 7.31 in. . . . . \$200/sys

## NEC

### RS-1000 3-Way Speaker

Floor-standing 3-way speaker. Features FR 40-20,000 Hz at +4 dB; sens 92 dB; 130 W max power handling; nominal impedance 8 ohms; one 3/4-inch dome tweeter; one 5-inch polypropylene midrange; two 10-inch polypropylene woofers. 37 x 12.25 x 13.5 in; 46 lb. . . . . \$800/pr

### SW-400 Powered Subwoofer/Full-Range System

Magnetically-shielded speaker system with powered subwoofer and full-range speaker system. Features bass-reflex, 12" subwoofer with built-in 60-W power amp; low-pass filter; 4" full-range speaker; 3-level

turnover switch; front-channel variable output control. . . . . \$599 ea

### RS-500 3-Way Speaker

Floor-standing acoustic-suspension magnetically-shielded speaker with mirror-image design. Features 12" cone woofer; 5" polyvinyl acetate-cone midrange; 1" soft-dome tweeter. FR 40-20,000 Hz  $\pm$  3 dB; power range 15-130 W rms; sens 92 dB SPL/W/m; imp 8 ohms. Teton oak finish. 14 x 27 x 10.75 in. . . . . \$499/pr

### SW-300BU Subwoofer

Magnetically-shielded bass-reflex subwoofer with 12" cone woofer, built-in 60 W amplifier, and 3 selectable turnover frequencies (70, 100, 150 Hz). FR 20-150 Hz, 20-100 Hz, or 20-70 Hz depending on selected turnover frequency. 18 x 20.7 x 15.3 in; 32 lb. . . . . \$299 ea

### AVS-300E 2-Way Surround Sound Speaker

Compact acoustic-suspension speaker designed for rear-channel reproduction of surround sound. Features 5.5" cone woofer; 1" polymer-dome tweeter. Power range 5-60 W; nominal imp 8 ohms; sens 89 dB SPL/W/m; FR 60-20,000 Hz. 9.75 x 6.5 x 5.6 in. . . . . \$199/pr

## NOVAK LOUDSPEAKER

### Model 2 Vented 2-Way Speaker

6.5" plastic cone woofer vertically aligned with ferrofluid-damped dome tweeter; 4th-order Butterworth woofer loading; 1st-order crossover with mylar capacitors; min-diffraction baffle; nonallergenic antistatic black foam grille; external fuses. FR 44-24,000 Hz  $\pm$  3 dB; sens 91 dB SPL/W/m; power range 5-60 W; 11.25 x 20.4 x 10.9; shipping weight 26 lb. Black formica. . . . . \$330/pr

Walnut or oak. . . . . \$300/pr

## OHM ACOUSTICS

### Walsh 5 Vented Speaker

Features Walsh driver; 3 controls for lows, perspective (midrange), and highs, each with 3 positions; gold-plated 5-way binding posts; gold internal connectors; Monster Cable internal wiring; veneered top edge of cabinet. FR 25-25,000 Hz  $\pm$  4 dB; min power 50 W rms; max power 500 W rms; imp 4 ohms; 1,000-W headroom rating for CDs. Available in walnut, oak and rosewood finishes or teak/white/black lacquer. 95 lbs; 17.5" x 17.5" at bottom tapering to 15" x 15" at top; 43" tall. Limited edition run of only 500 sets worldwide, each signed and numbered. . . . . \$5,800/pr

### 4XO Floor-Standing Speaker

Bass-reflex speaker features inverted conical surface driver; gold-plated 5-way binding posts; gold internal connectors; lead-lined cabinet; Monster Cable internal wiring; casters; tufflex transmission block; ferrofluid cooled; protection circuits; acoustical attenuator for controlled dispersion; sonically transparent circular metal grill. Standard finish walnut and oak, available in Scandinavian rosewood, black, or white lacquer. FR 32-23,000 Hz  $\pm$  4 dB; sens 91 dB SPL/m/2.83 V; power range 30-500 W; peak handling 700 W; imp 8 ohms. 40" h x 15.5" x 15.5" at base tapering to 11.75" x 11.75" at top; 63 lb. . . . . \$2,000/pr

### 3XO Floor-Standing Speaker

Bass-reflex speaker features inverted conical surface driver; press-connector inputs accept banana plugs or up to 12 gauge wire; lead-lined cabinet; casters; tufflex transmission block; ferrofluid cooled; protection circuits; acoustical attenuator; circular metal grill. Standard finish walnut and oak, available in Scandinavian rosewood, black, or white lacquer. FR 36-22,000 Hz  $\pm$  4 dB; sens 90.6 dB SPL/m/2.83 V; power range 18-200 W; peak handling 300 W; imp 8 ohms. 36 x 13.5 x 13.5 in. at base tapering to 10.5 x 10.5 in. at top; 43 lb. . . . . \$1,500/pr

### 2XO Floor-Standing Speaker

Bass-reflex speaker features inverted conical surface



# S P E A K E R S

driver; press-connector inputs accept banana plugs or up to 12 gauge wire; sub-bass activator; tufflex transmission block; ferrofluid cooled; protection circuits; acoustical attenuator; circular metal grill. Standard finish walnut and oak, available in Scandinavian rosewood, black, or white lacquer. FR 44-21,000 Hz  $\pm$  4 dB; sens 90.2 dB SPL/m/2.83 V; power range 15-120 W; peak handling 200 W; imp 8 ohms. 32.5 x 11.5 x 11.5 in. at base tapering to 9.25 x 9.25 in. at top; 29 lb ..... \$1,000/pr

### 1XO Floor-Standing Speaker

Bass-reflex speaker features inverted conical surface driver; press-connector inputs accept banana plugs or up to 12 gauge wire; tufflex transmission block; ferrofluid cooled; protection circuits; acoustical attenuator; circular metal grill. Walnut finish. FR 48-20,000 Hz  $\pm$  4 dB; sens 90 dB SPL/m/2.83 V; power range 10-90 W; peak handling 150 W; imp 8 ohms. 32.5 x 11.5 x 11.5 in. at base tapering to 9.25 x 9.25 in. at top; 24 lb ..... \$750/pr

### CAM 42 Speaker

Two-way bookshelf speaker. Features egg shaped .75" polycarbonate dome tweeter system; 8" polypropylene woofer; ferrofluid-cooled tweeter with 50 mm magnet; 12" passive radiator and patented Sub Bass Activator; FR 39-20,000 Hz  $\pm$  4 dB; power range 15-125 W; sens 90dB; imp 8 ohms; enclosure volume 42 l; 14.75 x 11 x 26.5 in; available in brushed bronze vinyl finish ..... \$500/pr

### CAM 32 Speaker

Two-way bookshelf speaker. Features egg shaped .75" polycarbonate dome tweeter system; polyswitch circuit breakers; protection circuits; 6.5" woofer; 10" passive radiator; FR 39-20,000 Hz  $\pm$  4 dB; power range 15-125 W; sens 90 dB; imp 8 ohms; enclosure volume 32 l; 12.75 x 11 x 22.25 in; brushed bronze vinyl finish ..... \$400/pr

### CAM 16 Speaker

Two-way vented speaker. Features egg shaped tweeter system mounted on top of cabinet and adjustable; bevelled cabinet; frameless grills; 6.5" woofer; FR 46-20,000 Hz  $\pm$  4 dB; power range 15-85 W; sens 89 dB; imp 8 ohms; enclosure volume 16 l; 9 x 11 x 17.25 in; brushed bronze vinyl finish ..... \$300/pr

### PRO 250 Sound Cylinder Loudspeaker

Cylindrical speakers with black matador standard finish with optional real wood veneers of teak, oak, rosewood and walnut. Features lead lining; monster cable; FR 35-20,000 Hz; power rating 10-250 W; sens 91 dB; imp 8 ohm; 45.5" h x 11.5" diameter \$1,200/pr  
**PRO 200.** Similar to PRO 250 but FR 39-20,000 Hz; Power rating 10-750 W; sens 91 dB; imp 8 ohm; 39" h x 11.5" diameter ..... \$950/pr  
**PRO 150.** Similar to PRO 250 but FR 42-20,000 Hz; power rating 10-125 W; sens 91 dB; imp 8 ohm; 34.5" h x 11.5" diameter ..... \$750/pr  
**SC Tall.** Similar to above sound cylinders. Power range 25-150 W; FR 40-20,000 Hz ..... \$750/pr  
**SC Short.** Similar to above sound cylinders. Power range 22-100 W; FR 44-20,000 Hz ..... \$600/pr

## ONKYO

### S-70 4-Way Speaker

Bass-reflex speaker with 12" polypropylene-cone woofer with high-power voice coil, 5" PVA-treated ferrofluid-cooled midrange, 1" polycarbonate-dome ferrofluid-cooled tweeter, and 0.5" polycarbonate-dome ferrofluid-cooled supertweeter. Features self-resetting auto overload protection. FR 55-20,000 Hz  $\pm$  3 dB; power range 10-150 W rms; sens 93 dB SPL/W/m; imp 8 ohms. Natural-oak-veneer finish. 16 x 40.75 x 10.25 in; 49 lb ..... \$600/pr

### S-60 4-Way Speaker

Floor-standing bass-reflex speaker with self-resetting overload protection. Features 15" subwoofer; 12" polypropylene-cone woofer; 5" PVA-treated ferro-

fluid-cooled cone midrange; 1" polycarbonate-dome ferrofluid-cooled tweeter. 150 W max power handling; FR 32-22,000 Hz  $\pm$  3 dB; sens 93 dB SPL/W/m; imp 8 ohms. Oak vinyl finish. 16.5 x 40 x 10 in; 45 lb ..... \$400/pr

### S-40 3-Way Speaker

Floor-standing bass-reflex speaker with self-resetting overload protection. Features 12" polypropylene-cone woofer; PVA-treated ferrofluid-cooled cone midrange; 1" polycarbonate ferrofluid-cooled dome tweeter. FR 36-20,000 Hz  $\pm$  3 dB; power range 10-120 W rms; sens 91 dB SPL/W/m; imp 8 ohms. Oak vinyl finish. 14.5" w x 36.75 x 8.5 in; 37 lb ..... \$300/pr

### HS-15 2-Way Speaker

Compact speaker with high-strength mesh grille, 6.25" cone woofer, 2.2.75" cone tweeters. Dark grey finish; mirror-image pairs; FR 55-20,000 Hz; max power 45 W; imp 8 ohms. 8.12 x 13.87 x 9.62 in; 10 lb ..... \$250/pr

## OWI

### 2300-FX Weatherized Speakers

Wall-mount 2-way weatherized flat-wave system. Imp 4 ohm; power capacity 30-60 W; woofer approx 5 x 5 in. flat wave; strontium magnet; tweeter approx 1.5" Dyna-ribbon. Available in ivory or black; 9 x 9 x 1.5 in; 2.6 lb/ea. .... \$320/pr

### OWI-503 3-way Weatherized Loudspeakers

High-fidelity loudspeakers. Feature 5.25" woofer; 2" tweeter; 1" tweeter; 10 oz magnet; 60-22,000 Hz; Imp 8 ohm; sens; 93 dB/W/m; 6.75 x 10 x 6 in; 7.0 lb each; aluminum diecast; black or cream ..... \$275/pr

### Thinly II Model 2301 Loudspeakers

Wall/ceiling, flush mount loudspeaker. Features 5.5" Honeycomb-Ring speaker; 8.5 oz strontium magnet; 65-20,000 Hz; sens 90 dB/W/m; imp 6 ohm; 9 x 9 x 1.75 in; 2.4 lb; black or ivory ..... \$250/pr

### DX-7 Compact Powered Speaker

10-W/ch speakers with 4 surround sound selections (stereo, music/movie, delay) enclosed in die cast aluminum; THD @ 10.5 W 1%; 3 amp fuse protection. Speaker section 4" full range; SPL 88 dB/W/m; imp 3 ohm ..... \$200/pr

### OWI-203 3-Way Weatherized Loudspeakers

Mini-loudspeakers featuring 4" polypropylene woofer; 2" mylar tweeter; .5" mylar tweeter; 10 oz strontium magnet; FR 90-22,000 Hz; imp 8 ohm; sens 92 dB/W/m; 7 x 4.5 x 4 in; 5.51 lb; aluminum die-cast frame; finished in autumn grey, black or cream ..... \$159/pr

### OWI-202 2-Way Weatherized Loudspeakers

Mini-loudspeakers featuring 4" polypropylene woofer; 2" mylar tweeter; 10 oz strontium magnet; FR 90-20,000 Hz; imp 8 ohm; sens 92 dB/W/m; 7 x 4.5 x 4 in; 4.41 lb; aluminum diecast; autumn grey, black or cream ..... \$139/pr

## PARASOUND

### Sub/Sat One System

System combines BPI-480 and the CPI440bi each finished in simulated black oak grain. Features wide response, high sens; FR 35-20,000 Hz  $\pm$  3 dB; imp 4 ohm; power range 10-100 W; sens 89 dB/W/m; 2-8" subwoofers; 2-4" mid/bass; 2-1" dome tweeters with acoustic blankets; subwoofer 18 x 14.75 x 11.5 in; satellites 6 x 9 x 6.5 in ..... \$465

### Sub/Sat Two System

System combines Sub-450 and the Sat-350 to form a compact system. Features wide response; high sens; FR 40-19,500 Hz  $\pm$  3 dB; imp 4 ohm; power range 10-75 W; 2-5.25" subwoofers; 2-4" mid/bass; 2-1.5" tweeters; subwoofer 13.25 x 8 x 7.25 in; satellite 4.88 x 8 x 4.5 in ..... \$335

### AMW-380 All Weather Monitor

Diecast enclosure system with weatherproofed parts. Features carbon fiber reinforced PP woofer cones; 12 dB/oct. crossover; ferrofluid damped dome tweeter; mounting brackets; FR 48-20,000 Hz  $\pm$  3 dB; imp 4 ohm; power range 15-80 W; sens 90 dB/W/m; 6.5 x 9 x 6.5 in ..... \$325/pr

### AW-S390 All-Weather Speaker

Diecast enclosure system. Features carbon fiber reinforced PP woofer cones; 12 dB/oct. crossover; ferrofluid damped dome tweeters; mounting brackets; FR 44-130,000 Hz  $\pm$  3 dB; imp 4 ohm; power range 15-100 W; sens 90 dB/W/m; 2-5.25" subwoofers; 6.5 x 9 x 6.5 in ..... \$325/pr

### AWs280 All-Weather Speaker

Ported bookshelf speaker designed to function outdoors year-round. 6" polypropylene cone woofer, labyrinth bass loading, 1.5" poly cone tweeter. High-density particle-board beige enclosure with molded outer shell and mounting hooks. FR 65-20,000 Hz  $\pm$  4 dB; power range 10-60 W; sens 88 dB SPL/W/m; imp 8 ohms. 10 x 14.5 x 9.5 in; 11 lb ..... \$255/pr

### CPI-440bi Compact Perfect Image Speaker

2-way speaker with 4" high-compliance carbon-fiber-reinforced polypropylene cone woofer and 1" ferrofluid-damped soft-dome tweeter with acoustic blanket. Nondiffraction cabinet; 1st-order network with polypropylene capacitor; 4th-order vented design. Simulated black oak finish. FR 70-22,000 Hz  $\pm$  4 dB; THD at 92 dB -1%; imp 4 ohms; sens 88 dB SPL/W/m; sustained power handling 55 W rms; max power 150 W rms; time aligned within 0.05  $\mu$ s. 9 x 5.88 x 6.5 in ..... \$210/pr

## PHASE TECHNOLOGY

### Phase Coherent Series

#### PC-1000 4-Way Speaker

Floor-standing phase-coherent passive-radiator speaker. Features met-polypropylene bypass capacitors; 10" solid-piston RPF radiator; 8" solid-piston RPF woofer; 5.25" solid-piston RPF midrange; 1" soft-dome tweeter; accepts banana plugs. FR 25-20,000 Hz  $\pm$  3 dB; power range 25-200 wrms; sens 91 dB SPL/W/m; imp 4 ohms; walnut and dark oak; 15.5 x 38.25 x 8.5 in; 70 lb ..... \$1,300/pr

#### PC-800Hn 3-Way Speaker

Floor-standing acoustic-suspension phase-coherent speaker with met-polypropylene bypass capacitors, 10" flat solid-piston RPF woofer, 5.25" flat solid-piston RPF midrange, 1" soft-dome tweeter. Features removable min-diffraction grille; genuine wood veneer; speaker protection. Accepts banana plugs. FR 30-20,000 Hz  $\pm$  3 dB; min power 20 W rms; max power 130 W rms; sens 91 dB SPL/W/m; imp 4 ohms. Walnut or dark-oak veneer finishes. 14.5 x 36.25 x 8.5 in; 57 lb ..... \$990/pr

#### PC-600Hn 2-Way Speaker

Floor-standing acoustic-suspension phase-coherent speaker with met-polypropylene bypass capacitors, 8" solid-piston RPF woofer, 1" soft-dome tweeter. Features removable min-diffraction grille; genuine wood veneer; speaker protection. Accepts banana plugs. FR 35-20,000 Hz  $\pm$  3 dB; min power 20 W rms; max power 125 W rms; sens 91 dB SPL/W/m; imp 4 ohms. Walnut or dark-oak veneer finishes. 12 x 31.25 x 8 in; 42 lb ..... \$620/pr

#### PC-60 2-Way Speaker

Bookshelf phase-coherent acoustic-suspension speaker with met-polypropylene bypass capacitors; accepts banana plugs; solid hardwood and veneers; removable min-diffraction grille; speaker protection. 6" solid-piston RPF woofer; 1" soft-dome tweeter. FR 55-20,000 Hz  $\pm$  3 dB; power range 15-100 W; sens 87 dB SPL/W/m; imp 4 ohms; walnut, or oak finishes; 8 x 13.5 x 8 in ..... \$480/pr

# S P E A K E R S

## PC-40 2-Way Speaker

Bookshelf phase-coherent acoustic-suspension speaker with met-polypropylene bypass capacitors; accepts banana plugs; genuine wood veneer; removable min-diffraction grille; speaker protection. 5.25" solid-piston RPF woofer; 1" soft-dome tweeter. FR 70-20,000 Hz  $\pm$  3 dB; power range 15-80 W; sens 89 dB SPL/W/m; imp 4 ohms; walnut, stained-oak, light-oak finish; 6.5 x 9.75 x 5.25 in; 10 lb . . . . \$380/pr

## Euro Series

### 745 ES 3-Way Speaker

Floor-standing acoustic-suspension speaker with angled projected front baffle for minimum diffraction. Features 8" cone woofer; 6.5" cone midrange; 1" soft-dome tweeter; removable min-diffraction grille; rubber surround on woofer and midrange. Accepts banana plugs. FR 35-20,000 Hz  $\pm$  3 dB; min power 15 W rms; max power 120 W rms; sensitivity 93 dB SPL/W/m; impedance 4 ohms. 10 x 35.25 x 11.75 inches; 42 pounds. . . . . \$550/pr

### 535 ES 3-Way Speaker

Floor-standing acoustic-suspension speaker with angled projected front baffle for minimum diffraction. Features 6.5" cone woofer; 6.5" cone midrange; 1" soft-dome tweeter; removable min-diffraction grille; rubber surround on woofer and midrange. Accepts banana plugs. FR 40-20,000 Hz  $\pm$  3 dB; min power 15 W rms; max power 100 W rms; sens 92 dB SPL/W/m; imp 4 ohms. Walnut or black-ash vinyl finish. 8.5 x 33.12 x 10.25 in; 32 lb . . . . . \$450/pr

### 325 ES 2-Way Speaker

Bookshelf acoustic-suspension speaker with angled projected front baffle for minimum diffraction. Features 6.5" cone woofer; 0.5" dome tweeter; removable min-diffraction grille; rubber surround on woofer. Accepts banana plugs. FR 55-20,000 Hz  $\pm$  3 dB; min power 15 W rms; max power 80 W rms; sens 92 dB SPL/W/m; imp 4 ohms. Walnut or black-ash vinyl finish. 8 x 17.25 x 8.75 in; 17 lb . . . . . \$240/pr

## Subwoofer/Satellite Systems

### PC-60/50 Subwoofer/Satellite Set

3-piece acoustic-suspension subwoofer system with down-firing floor-loaded woofer and 2-way compact phase-coherent satellites. Features met-polypropylene bypass capacitors; feet extenders for heavy carpet; tweeter level control; accepts banana plugs; solid hardwood and veneers; removable minimum-diffraction grille; speaker protection. 10" solid-piston subwoofer, 6" solid-piston midrange, 1" soft-dome tweeter. FR 30-20,000 Hz  $\pm$  3 dB; power range 25-200 W; sens 87 dB SPL/W/m; imp 8 ohms; walnut, stained oak, light oak finish; satellites 8 x 13.5 x 8 in; subwoofer 13 x 14 x 15 in; 60 lb . . . . . \$830/set

## Subwoofers

### PC-50 Subwoofer

Down-firing floor-loaded acoustic-suspension subwoofer with met-polypropylene bypass capacitors; internal passive crossover for use with satellite speakers; feet extenders for heavy carpeting; genuine wood veneer. 10" solid-piston RPF woofer. FR 30-150 Hz  $\pm$  3 dB; power range 25-200 W; sens 87 dB SPL/W/m; imp 8 ohms; walnut, light oak, stained oak finish; 13 x 14 x 15 in; 33 lb . . . . . \$350 ea

## PINNACLE

### Monitor 200 3-Way Speaker

Bookshelf acoustic-suspension speaker. Features 12" polypropylene woofer; 4.5" polypropylene midrange; 0.75" polycarbonate fluidome tweeter. Push-spring terminals and removable black-knit grilles. FR 38-21,000 Hz  $\pm$  3 dB; min power 10 W rms; max power 100 W rms; sens 92 dB SPL/W/m; imp 6 ohms. Woodgrain vinyl finish. 13.25 x 23 x 12 in; 35 lb . . . . . \$449/pr

## PN8 Compact 3-Way Speaker

Acoustic-suspension speaker with 0.75" ferro-fluid polycarbonate tweeter, 4.5" polypropylene-cone midrange, and 8" polypropylene-cone woofer. FR 60-21,000 Hz  $\pm$  3 dB; min power 10 W rms; max power 80 W rms; sens 90 dB SPL/W/m; imp 4 ohms; Hickory vinyl veneer; 9.75 x 15.25 x 8.88 in; 32 lb/pr . . . . . \$279/pr

## The Diaduct 8

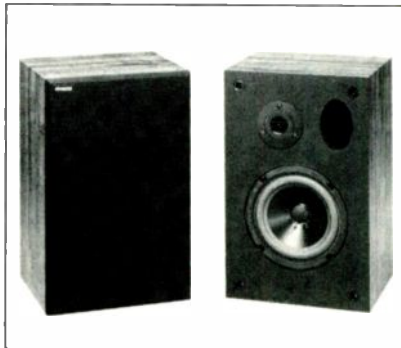
Features 1 8" polypropylene woofer with butyl rubber surround; 1.5" aluminum voice coil; 1 4" doped cone midrange with damped isolation chamber; 1 0.75" ferro-fluid filled soft dome tweeter. 6 ohms nominal impedance; FR 42-20,000 Hz  $\pm$  3 dB. 22.75 x 13.5 x 10 in; 44 lb/each . . . . . \$750/each

## PN7 3-Way Speaker

Bookshelf bass-reflex speaker with 6.5" polypropylene woofer; 1" convex fabric-dome tweeter; 0.75" polycarbonate fluidome supertweeter. Push-spring terminals and removable black-knit grilles. FR 55-21,000 Hz  $\pm$  3 dB; min power 10 W rms; max power 70 W rms; sens 90 dB SPL/W/m; imp 4 ohms. Hickory vinyl finish. 9.25 x 14.5 x 8.5 in; 26 lb/pr . . . . . \$249/pr

## PN 6+ 2-Way Speaker

Bookshelf speaker with front-mounted Diaduct-port design. Features 0.75" ferrofluid dome tweeter; 6.5" polypropylene woofer. FR 55-21,000 Hz  $\pm$  3 dB; sens



89 dB SPL/W/m; min power 10 W rms; max power 60 W rms. Hickory vinyl veneer; 9.25 x 14.5 x 7.88 in; 26 lb/pr . . . . . \$229/pr

## PN6 2-Way Speaker

Bookshelf acoustic-suspension speaker with 6.5" polypropylene woofer; 0.75" polycarbonate fluidome tweeter. Push-spring terminals and removable black-knit grilles. FR 55-21,000 Hz  $\pm$  3 dB; min power 10 W rms; max power 60 W rms; sens 88 dB SPL/W/m; imp 4 ohms. Hickory vinyl finish. 9.25 x 14.5 x 7.44 in; 24 lb/pr . . . . . \$199/pr

## PN 5+ 2-Way Speaker

Bookshelf speaker with Diaduct-port design. Features 0.75" polycarbonate ferro-fluid tweeter; 5.25" polypropylene-cone woofer. FR 65-21,000 Hz; sens 86 dB SPL; power range 10-50 W; imp 6 ohms; 6.75 x 11.25 x 6.88 in; 17 lb/pr . . . . . \$169/pr

## PIONEER

### DSS-9 3-Way Speaker

Bass-reflex speaker with 12" polymer-graphite-cone woofer, 2.62" boron-cone midrange; beryllium ribbon tweeter. Features mirror-image driver alignment; Pioneer's LDMC (linear drive magnetic circuit), EBD (electronic bass drive), and DRS (dynamic response suspension). Nominal imp 6 ohms; sens 91 dB SPL/W/m; max power 240 W. Walnut-grain vinyl finish. Sold only in mirror-imaged pairs. 26.75 x 15.4 x 13.9 in . . . . . \$1,100/pr

### CS-V910 3-Way Speaker

Magnetically-shielded 3-way speaker. Features 12"

cone woofer; 4 3/4" titanium-dome midrange; 1" titanium-dome tweeter; aluminum die-cast frame in woofer and midrange; round-cornered baffle. FR 25-30,000 Hz; imp 6 ohms; sens 90 dB SPL/W/m; 150 W max power handling. Dark oak veneer finish. 35.69 x 16.13 x 15.31 in; 75 lb . . . . . \$1,040/pr

### DSS-7 3-Way Speaker

Bass-reflex speaker with 12" polymer-graphite-cone woofer, 2.62" boron-cone midrange, and beryllium ribbon tweeter. Features mirror-image driver alignment; Pioneer's LDMC (linear drive magnetic circuit), EBD (electronic bass drive), and DRS (dynamic response suspension). Nominal imp 6 ohms; sens 91 dB SPL/W/m; max power 210 W. Walnut-grain vinyl finish. Sold only in mirror-imaged pairs. 25.6 x 14.6 x 13.6 in . . . . . \$760/pr

### CS-707 4-Way Speaker

Bass-reflex speaker with 15.75" dual-voice-coil woofer, 4.75" midrange, horn tweeter with acoustic lens, and twin-piezo supertweeter. Features EBD (electronic bass drive); 3-position tone selector; LED power indicator. Imp 8 ohms; sens 98 dB SPL/W/m; max power 300 W. Walnut-grain vinyl finish. 28.6 x 17.7 x 10.6 in . . . . . \$760/pr

### CS-607 4-Way Speaker

Bass-reflex speaker with 12" dual-voice-coil woofer, 4.75" midrange, horn tweeter with acoustic lens, and twin-piezo supertweeter. Features EBD (electronic bass drive); LED power indicator. Imp 8 ohms; sens 96 dB SPL/W/m; max power 210 W. Walnut-grain vinyl finish. 25.6 x 16.1 x 11.25 in . . . . . \$640/pr

### DSS-5 3-Way Speaker

Bass-reflex speaker with 10" cone woofer, 2.62" cone midrange, and 1" dome tweeter. Features mirror-image driver alignment; Pioneer's LDMC (linear drive magnetic circuit), EBD (electronic bass drive), and DRS (dynamic response suspension). Imp 8 ohms; sens 91 dB SPL/W/m; max power 120 W. Walnut-grain vinyl finish. Sold only in mirror-imaged pairs. 22.4 x 12.8 x 11.4 in . . . . . \$520/pr

### Elite DSS-E6 3-Way Speaker

Features 7.88" polymer-graphite-cone woofer; 2.88" boron-cone midrange; beryllium ribbon tweeter; mirror-image driver alignment; Pioneer's LDMC (linear drive magnetic circuit), EBD (electronic bass drive), and DRS (dynamic response suspension). Nominal imp 6 ohms; sens 91 dB SPL/W/m; max power 120 W. Sold only in mirror-imaged pairs. 18.5 x 10.6 x 9.6 in . . . . . \$600/pr

### CS-407 3-Way Speaker

Bass-reflex speaker with 12" woofer, 4" midrange, and 2.5" cone tweeter. Imp 8 ohms; sens 94 dB SPL/W/m; max power 150 W. Walnut-grain vinyl finish. 24.8 x 15 x 10.4 in . . . . . \$380/pr

### CS-G401W 3-Way Speaker

3-way bass-reflex speaker. Features 16" woofer; 4.75" midrange; 2.5" tweeter; imp 8 ohms; FR 30-20,000 Hz; 150 W max power handling; sens 92 dB SPL/W/m; walnut grain vinyl finish. 29.13 x 17.31 x 11.63 in; 36 lb, 6 oz . . . . . \$360/pr

### CS-VX110 2-Way Speaker

Magnetically-shielded speaker for A/V use. Features 7" woofer; 2.5" tweeter; FR 50-20,000 Hz; imp 8 ohms; sens 90 dB SPL/W/m; 60 W max power handling; dark oak veneer finish. 13.75 x 9.38 x 7.31 in; 23 lb . . . . . \$320/pr

### CS-G301W All 3-Way Speaker

Bass-reflex bookshelf speaker with 12" woofer, 4.75" midrange, and 2.62" tweeter. Imp 6 ohms; sens 91.5 dB SPL/W/m; max power 120 W. Walnut-grain vinyl finish. 26.5 x 15 x 13 in . . . . . \$280/pr

### CS-G201W All 3-Way Speaker

Bass-reflex bookshelf speaker with 10" woofer, 3"



# SPEAKERS

midrange, and 2.62" tweeter. Imp 6 ohms; sens 90 dB SPL/W/m; max power 100 W. Walnut-grain vinyl finish. 24 x 13.75 x 11.8 in. . . . . \$210/pr

## CS-G101WAI1 2-Way Speaker

Sealed-box bookshelf speaker with 10" woofer and 2.62" tweeter. Imp 6 ohms; sens 90 dB SPL/W/m; max power 50 W. Walnut-grain vinyl finish. 22.4 x 13 x 7.8 in. . . . . \$150/pr

## S-X7 Full-Range Speaker

Compact bass-reflex speaker designed for surround-sound applications. Features 3.5" driver; sens selector switch; black vinyl finish. Imp 16 ohms; sens 90 dB; max power 30 W. 5.4 x 7.5 x 4.5 in. . . . . \$130/pr

## CS-X5 Surround-Sound Speaker

Speaker for surround-sound applications. Features 4" full-cone driver; imp 8 ohms; 30 W max power; sens 90 dB. 7.5 x 5.5 x 5 in; 7.3 lb. . . . . \$60/pr

## POLK AUDIO

### SDA-SRS 1.2 Signature Reference Speaker

Floor-standing speaker that incorporates coherent Line-Source True Stereo (SDA) technology for 3-dimensional imaging. Features 15" planar passive radiator; 8 6.5" trilaminate polymer midranges; 4 1" silver-coil soft-dome tweeters. FR 10-26,000 Hz; Recom. Assoc. Amplification: 10-1,000 W; 6 ohms nominal imp. Oiled oak, and walnut finish. 21 x 63.75 x 13 in; 185 lb. . . . . \$1,495/each

### SDA-SRS2 Signature Reference Speaker

Floor-standing smaller-version SDA-SRS. Features Line Source Polk SDA True Stereo Technology for 3-dimensional imaging; 15" planar sub-bass radiator; 6 6.5" trilaminate polymer bass/midrange drivers; 3 1" silver-coil polymer-dome tweeters. Recom. Assoc. Amplification 10-750 W/channel; 6 ohms nominal impedance. Oiled oak or walnut finish. 55 x 20.62 x 13.12 in; 155 lb. . . . . \$1,100/each

### SDA-1C 3-Way Speaker

Floor-standing speaker. Features 4 Polk 6.5" trilaminate polymer bass midrange drivers; 2 1" silver coil polymer dome tweeters; 1 12" planar sub-bass radiator. Recom. Assoc. Amplification 10-500 W; FR 14-26,000 Hz; 6 ohms nominal impedance. Oiled walnut or oak cabinet. Black studio version at lower cost. 43.5 x 16.5 x 12 in; 95 lb. . . . . \$850/each

### SDA-2B 3-Way Speaker

Similar to SDA-1B except 2 6.5" trilaminate polymer bass/midrange drivers; 1 1" silver coil polymer dome tweeters; 1 12" planar sub-bass radiator; FR 15-26,000 Hz; 6 ohms nominal impedance. Oiled walnut or oak cabinet. Black studio version at lower cost. 39.5 x 16.5 x 12 in; 87 lb. . . . . \$600/each

### SDA-CRS + 3-Way Speaker

Bookshelf speaker with SDA technology for life-like three-dimensional imaging; features 2 6.5" trilaminate polymer bass/midrange drivers; 1" polymer dome tweeter; 10" passive cone radiator. FR 24-25,500 Hz; Recom. Assoc. Amplification 10-250 W; 6 ohms nominal impedance. Black ash, walnut or oak vinyl finish. Genuine walnut or oak veneer finish available at extra cost. 20 x 12.5 x 12 in; 36 lb. . . . . \$425/each

### RTA 11t Monitor 3-Way Speaker

Real-Time-Array floor-standing speakers with 2 8" low-resonance subwoofer, 2 6.5" trilaminate polymer bass/midrange drivers, and a 1" polymer dome tweeter; FR 15-25,000 Hz; Recom. Assoc. Amplification 10-500 W; 6 ohms nominal impedance. Black ash, walnut and oak vinyl finish. Genuine walnut and oak veneer finish available at extra cost. 39 x 10.5 x 14.5 in; 58 lb. . . . . \$450/each

### RTA 8t Monitor 3-Way Speaker

Real-Time-Array floor-standing speaker with 2 6.5" trilaminate polymer bass/midrange drivers; 1" silver-

coil polymer dome tweeter. FR 22-26,000 Hz; Recom. Assoc. Amplification 10-200 W; 6 ohms nominal impedance; Black ash, walnut and oak vinyl finish. Genuine walnut and oak veneer finish available at extra cost. 28" h x 16" w x 9.25" d; 48 lb. . . . . \$260/each

### Monitor 10B 3-Way Speaker

Sub-bass radiator/sealed floor-standing speaker with 10" fluid-coupled subwoofer; 2 6.5" trilaminate polymer bass/midrange drivers; 1" polymer dome tweeter. FR 22-25,000 Hz; Recom. Assoc. Amplification 10-250 W; 6 ohms nominal impedance. Black ash, walnut and oak vinyl finish. Genuine walnut and oak veneer finish available at extra cost. 28" h x 16" w x 11.5" d; 48 lb. . . . . \$330/each

### Monitor 7C 3-Way Speaker

Sub-bass radiator/sealed bookshelf speaker with 10" fluid coupled subwoofer; 6.5" trilaminate polymer bass/midrange driver; 1" polymer dome tweeter. FR 26-25,000 Hz; power range 10-100 W; 6 ohms nominal impedance; 24 x 14 x 9.25 in; 34 lb. . . . . \$260/each

**Monitor 5B.** Similar to 7C; 1" silver coil dome tweeter; 6.5" trilaminate polymer bass/midrange driver; 8" fluid coupled subwoofer; FR 31-25,000 Hz; power range 10-60 W; 6 ohms nominal impedance. 21.5 x 10.5 x 8.5 in; 26 lb. . . . . \$200/each

### Monitor 5 Jr. + 3-Way Speaker

Bookshelf speaker with 1" silver coil dome tweeter; 6.5" trilaminate polymer bass/midrange driver; 8" fluid coupled subwoofer. FR 29-26,000 Hz; power range 10-100 W; 6 ohms nominal impedance. Black-ash, walnut and oak vinyl finish. 17 x 9 x 8.87 in; 41 lb. . . . . \$340/pair

### Monitor 4.5 2-Way Speaker

Bookshelf speaker with 6.5" trilaminate polymer bass/midrange driver; 1" ferro-fluid cooled dome tweeter; isophase crossover network; Terminated transmission duct that loads bass/midrange driver into deep-bass range. FR 30-25,000 Hz; power range 10-100 W; 6 ohms nominal impedance. 17 x 9 x 8.87 in; 22 lb. . . . . \$245/pair

### Monitor 4A 2-Way Speaker

Bookshelf speaker with trilaminate polymer bass/midrange driver; 1" ferro-fluid cooled dome tweeter; isophase crossover network; Terminated transmission duct that loads bass/midrange driver into deep-bass range. FR 55-21,000 Hz; power range 10-80 W; 6 ohms nominal impedance. 14.5 x 8.5 x 7.36 in; 16 lb. . . . . \$200/pair

## PRECISE ACOUSTIC LABORATORIES

### Monitor 10 Speaker

3-way bass reflex speaker with tuned-port design. Features 10" woofer; 6.5" midrange; 1" soft-dome tweeter; FR 20-35,000 Hz; 250 W max power handling. Natural oak veneer finish. . . . . \$750 ea

### Monitor 9 Speaker

2-way floor-standing speaker with 8" woofer, 1" tweeter, and 10" passive radiator. Features 150 W max power handling; imp 6 ohms; sens 91 dB \$330 ea

### Monitor 7 Speaker

2-way bass-reflex speaker. Features 8" woofer and 1" tweeter; FR 28-35,000 Hz; 100 W max power handling; imp 6 ohms; sens 91 dB . . . . . \$230 ea

### Monitor 5 Speaker

2-way passive radiator speaker with 8" woofer and 1" dome tweeter. Features 80 W max power handling; 9-element crossover; FR 32-35,000 Hz. . . . . \$180

### Monitor 3 Speaker

2-way bass-reflex speaker. Features 6.5" woofer and 1" tweeter. . . . . \$140 ea

## PSB SPEAKERS

### Stratus Tower Speaker

8" woofer with focused magnetic gap; cloth-dome tweeter; 2nd-order crossover at 1,800 Hz; light oak, dark oak, black wood finishes. FR 60-20,000 ± 2 dB; sens 88 dB; power range 15-150 W. . . . . \$1,400/pr

### 20 MKII Speaker

2-way speaker system with 1/2" polydome tweeter; 6" woofer; black or brown finish. . . . . \$200/pr

### 30 MKII Speaker

2-way speaker system with 3/4" textile dome tweeter; 8" polypropylene woofer; rated impedance 8 ohms; black or brown finish. . . . . \$400/pr

### 40 MKII Speaker

2-way speaker system with 3/4" textile dome tweeter; 8" polypropylene woofer; rated impedance 8 ohms; black or brown finish. . . . . \$400/pr

### 50 MKII Speaker

2-way speaker system with 1" textile dome tweeter; 8" polypropylene cast basket woofer; rated impedance 8 ohms; black or brown finish. . . . . \$500/pr

### Subwoofer 1

Optimized for 50R speakers; may be used with 30R or other speakers with sens 86-92 dB SPL/W/m; stereo crossover network at 100 Hz rolls off frequencies going to satellite speakers at 6 dB/octave; 2 8" extra-long-throw woofers with aluminum voice coils can be combined for mono; tuned port; brown or black finish; Barton hickory or black ash. Power range 30-200 W rms; system resonance 26 Hz; sensitivity 88 dB SPL/W/m; 22 x 22 x 22 in; 90 lb \$700

## QUAD

### ESL-63 US Monitor

Full-range electrostatic doublet speaker with dipole source. Features 2 protection circuits. Power range 100-190 W; sens 86 dB, 2.83 V rms; imp 8 ohms; axis band limits -6 dB at 35 Hz, third-order, -6 dB at 20 kHz; 92.5 x 66 x 27 cm; 23 kg; black. . . . . \$3,995/pr  
ESL-63 Pro. Professional version with carrying handles. . . . . \$4,400/pr

## QUASAR

### SW30A Full-Range Speaker

Bookshelf round-ball speaker designed for use as rear-channel speakers. Features 4" cone midrange; stands. FR 150-20,000 Hz ± 10 dB. . . . . \$80/pr

## RCA

### SPK500 Dimensia 3-Way Speaker

Floor-standing bass-reflex speaker with Zero Magnetic Distortion for placement next to a video monitor. Features 11" cross-carbon woofer; 4" pure carbon midrange; 1" titanium alloy dome tweeter. FR 28-20,000 Hz ± 3 dB; max input power 160 W rms; imp 8 ohms. 12.75 x 36 x 12.5 in. . . . . \$549/pr

### SPK400 Dimensia 3-Way Speaker

Floor-standing acoustic-suspension speaker with Zero Magnetic Distortion. Features 12" nylon-coated woofer; 4" resin-coated midrange; 1" soft dome tweeter. FR 35-20,000 Hz ± 3 dB; max input power 120 W rms; imp 8 ohms. . . . . \$399/pr

### SPK250 Dimensia 2-Way Speaker

Acoustic-suspension speaker with Zero Magnetic Distortion. Features 8" polypropylene woofer; 1" soft dome tweeter. FR 45-20,000 Hz ± 3 dB; max input power 80 W rms; imp 8 ohms. . . . . \$269/pr

### SPK050 Full-Range Surround Sound Speaker

Full-range speaker with Zero Magnetic Distortion. Features: 4" polypropylene cone; color-coded input terminals; pivoting mounting brackets. FR 200-

# SPEAKERS

15,000 Hz  $\pm$  3 dB; max input power 50 W rms. 7.13 x 7.38 x 7 in. .... \$149

## REALISTIC

*Nominal imp of all Realistic speakers is 8 ohms.*

### Mach Two 3-Way Speaker

Vented Ferrofluid-cooled speaker with 15" woofer, 5" cone midrange, 4" dual-radial superhorn tweeter; level controls for midrange and tweeter; walnut veneer. Max power 160 W; sens 94 dB SPL/W/m; 27.56 x 17.75 x 11.81 in. .... \$512/pr

### Nova 15 Speaker

Walnut-veneered vented speaker with 2.5" tweeter. Max power 60 W; 19 x 16.75 x 7.5 in. .... \$160/pr

### MC-1800 Acoustic-Suspension Speaker

Bookshelf speaker with 8" high-compliance woofer and 2.5" wide-dispersion tweeter. FR 70-20,000 Hz  $\pm$  3 dB; max power 50 W rms; imp 8 ohms. Oiled-walnut finish. 10.9 x 17.75 x 6.9 in. .... \$120/pr

### MC-800 2-Way Bookshelf Speaker

6.5" woofer; 2.5" cone tweeter; removable cloth grille; push-on speaker terminals. Max power 40 W. 13.5 x 8.88 x 5.31 in. .... \$90/pr

### 40-165 Mini Speakers

2.5" square drivers; attached cable with mini plug for portable CD players and pocket stereos. Max power 1 W; 3.6 x 2.9 x 1.75 in. .... \$20/pr

### 40-155 Stereo Mini Speaker

Single enclosure with 2-1.5" drivers; mini plug for portable CD players and pocket stereos. 3.12 x 3.25 x 1.25 in. .... \$10

### Optimus Speakers

**1000.** Floor-standing bass-reflex tuned-port speaker with 15" high-compliance woofer, 5" midrange, 3" tweeter. FR 50-20,000 Hz  $\pm$  3 dB; max power 100 W rms; sens 92 dB SPL/W/m; imp 8 ohms. Oiled-walnut finish. 17.3 x 31.8 x 11.6 in; 44 lb. .... \$400/pr

**900.** Floor-standing bass-reflex tuned-port speaker with 12" high-compliance woofer, 4" midrange, 2.5" Ferrofluid tweeter. FR 50-20,000 Hz  $\pm$  3 dB; max power 100 W rms; sens 90 dB SPL/W/m; imp 8 ohms. Oiled-walnut finish. 14 x 29.75 x 10.88 in; 33 lb. .... \$310/pr

**650.** Bass-reflex speaker; 12" woofer; 4" midrange; 2.5" cone; 100 W; sens 91 dB. .... \$240/pr

**600.** Bass-reflex speaker; 8" woofer; 4" midrange; 2.5" cone tweeter; removable cloth grille; recessed color-coded spring-loaded terminals. Max power 70 W; sens 90 dB SPL/W/m. Oiled walnut veneer \$200/pr

### Minimus Speakers

**0.9.** 2-way speaker with built-in 5 band equalizer; 5 W/ch; 5" woofer; 144" tweeter. .... \$200/pr

**7W.** Walnut-veneered mini speaker with 4" woofer; 1" soft-dome tweeter; removable cloth grille; spring terminals. Maximum power handling 40 W; 8 x 5 x 4 in. .... \$120/pr

**7.** Die-cast metal enclosure; long-excursion 4" woofer; 1" soft-dome tweeter; deluxe crossover for smooth response without artificial peaks; hanger slots and recessed spring connectors for wall mounting. Max power 40 W; 7.1 x 4.4 x 4.3 in. .... \$100/pr

**25.** 5" long-throw woofer; 2.5" tweeter; walnut veneer. Max power 40 W; 11 x 6.7 x 4.3 in. .... \$60/pr

**0.6.** Powered speakers with 2.5" drivers for use with portable CD players and pocket stereos; 8 C batteries needed; with case, strap, cable. 5.6" H. .... \$50/pr

**18.** 4" driver; spring terminals; walnut vinyl finish. 9.4 x 5.75 x 4.75 in. .... \$44/pr

**3.5.** Molded enclosure with steel grille; spring terminals. Max power 15 W; 5.75 x 3.6 x 3.1 in. .... \$40/pr

**2.5.** 4" driver; walnut vinyl finish. Max power 10 W; 6.6 x 4.9 x 3.1 in. .... \$32/pr

**3.** 5" driver; walnut vinyl finish. Max power 7 W; 10 x 8.5 x 5.5 in. .... \$28/pr

**0.3.** Cube speaker with 3" driver; walnut veneer. Max power 7 W; 4 x 4 x 3.3 in. .... \$26/pr

**Mounting Brackets.** For 7W and 7. .... \$14.95/pr

**Mounting Brackets.** For 3.5 .... \$9.95/pr

### Supertweeters

**Dynamic.** Extends response to 40,000 Hz; mounts in or outside speaker cabinet; max power 50 W; 4" H \$22

**Piezo.** Extends response to 27,000 Hz. Max power 75 W; sens 96 dB SPL/W/m ..... \$13

## RECOTON

### Wireless 100 Speaker System

System consisting of transmitter and 2 powered speakers enabling listening to stereo in any room in house. Transmitter plugs into any audio component or AC outlet, speakers plug into that room's AC outlet. Features 4.5" full-range driver; volume control; FR 60-15,000 Hz; sep 90 dB; s/n 80 dB; 12 W/ch amp. Available in black and white. .... \$270

### SS53-Amplified Speakers

Speakers for portables. 3.5 x 2.6 x 2.5 in. .... \$20/pr

## REEL TO REAL DESIGNS

### Legacy-Signature Tower Speaker

Five-driver biampable tower speaker with digital electronic crossover. Features ribbon supertweeter; titanium dome midrange; vented polycone midrange; slot-loaded subwoofer section with double magnet structure. Oiled oak or walnut. FR 22-30,000 Hz  $\pm$  2 dB; sens 92 dB; min power 45 watts; imp 8 ohms; 44.0 x 12.0 x 13.0 in; 206 lb/system \$2,496/pr

### Legacy-1 Tower Speaker

Biampable tower speaker with hand-tuned crossover. Features ribbon supertweeter; dome midrange; 6" poly midrange and slot loaded subwoofer section with double magnet structure; dual gold binding posts; oiled oak or walnut; FR 26-30,000 Hz  $\pm$  2dB; sens 91 dB; min power 45 watts; imp 8 ohms; 42.0" x 12.0 x 13.0 lb/system ..... \$1,696/pr

### Legacy-2 Tower Speaker

Three-way tower speaker with gold binding posts; Features hand-rubbed walnut or oak; 10" poly woofer; 6" midrange; 1" ferrofluid tweeter; FR 32-22,000 Hz  $\pm$  2 dB; sens 90 dB; imp 8 ohms; 38.0 x 12.0 x 13.0 in; 160 lb/system. .... \$996/pr

### Legacy-3 Floor-Standing Speaker

Floor-standing double chambered speaker with 8" subwoofer; 6" midbass and 1" ferrofluid dome. Features individually-tuned chambers; hard-rubbed walnut or oak veneer cabinets; gold binding posts; FR 34-22,000 Hz  $\pm$  2 dB; sens 91 dB; imp 4 ohms; 35.0 x 12.0 x 10.0 in; 140 lb/system. .... \$796/pr

### Legacy-Satellite Bookshelf Speaker

Bookshelf-sized speaker with 6" polypropylene woofer; 1" ferrofluid cooled dome; gold binding posts; FR 40-22,000 Hz  $\pm$  2 dB; sens 90 dB; imp 8 ohms. 13.0 x 10.0 x 10.0 in; 55 lb/system. .... \$548/pr

### Legacy-Subwoofer

Dual-channel subwoofer with independent 10" bass drivers; variable crossover frequency and slope; assisted fourth order; FR 22-100,000 Hz  $\pm$  2 dB; sens 91 dB; imp 8 ohms; 24.0 x 16.0 x 16.0 in; 93 lb/system. .... \$548/each

## REVOX

### Agora B Amplified Speaker

Floor-standing triamplified active ported speaker incorporating three 100-watt amps with active dividing networks in each enclosure. Designed to be driven from preamp or direct from high-level sources such as CD player. Features push-pull dual woofer design with one woofer facing into enclosure to eliminate even-order harmonic distortion. Two 8" cone woo-

ers; 4.75" cone midrange; .75" titanium dome tweeter. Low-frequency amp utilizes feedback to compensate for back-EMF. Also features 4-step bass and treble controls; bass blend switch; auto power on/off. FR 30-21,000 Hz  $\pm$  3 dB; sens 110 dB SPL/W/m; real walnut veneer finish with brown grille or polished ebony finish with black grille. 16.75 x 29 x 16.75 in; 68 lb. .... \$5,000/pr

Black lacquer finish ..... \$5,900/pr

### Symbol MK-II 3-Way Speaker

Floor-standing speaker with 12.2" passive radiator. Features 12.2" woofer; 4.8" midrange; 1" tweeter; screw-lock connection terminals; fuse overload protection. Max power input 200 W continuous, 300 W peak; imp 4 ohms; sens 92 dB SPL/W/m. Dark walnut veneer finish; 16.7 x 39.8 x 16.3 in; 112 lb \$4,000/pr

### Atrium MK-II 3-Way Speaker

Floor-standing bass-reflex speaker features 10.2" woofer; 4.8" midrange; 1" tweeter; screw-lock connection terminals; fuse overload protection. Max power input 140 W continuous, 180 W peak; imp 4 ohms; sens 91 dB SPL/W/m. Dark walnut veneer finish; 13.5 x 33.6 x 14.5 in; 84 lb ..... \$2,900/pr

### Plenum MK-II 3-Way Speaker

3-way bass-reflex bookshelf speaker. Features 10.2" woofer; 4.5" midrange; 1" tweeter; screw-lock connection terminals; fuse-overload protection. Max power input 130 W continuous, 170 W peak; imp 4 ohms; sens 89 dB SPL/W/m. Dark walnut veneer finish; 13.7 x 22.8 x 13.4 in; 55.2 lb ..... \$1,900/pr

### Power Cube

Powered woofer incorporating 2 additional amplifiers to power any suitable pair of satellite speakers. Features 12.3" woofer, FR 35-22,000 Hz  $\pm$  3 dB; 150 W amp for bass speakers; 2-100 W amps for use with satellites; sens 100 dB; 15.5 x 14.5 x 16.25 in; 42 lb; black or white matte finish ..... \$1,600

### Forum MK-II 3-Way Speaker

3-way bass-reflex bookshelf speaker. Features 9.6" woofer; 3.9" midrange; 0.7" tweeter; screw-lock connection terminals; fuse overload protection. Max power input 110 W continuous, 150 W peak; imp 4 ohms; sens 88 dB SPL/W/m. Dark walnut veneer finish; 13 x 17.5 x 13.4 in; 36.8 lb. .... \$1,300/pr

### Piccolo Miniature Speaker

Satellite speaker may be used with or without companion subwoofer. Satellites feature 4.19" cone woofer; 0.75" dome tweeter. Subwoofer features 10.19" cone subwoofer. FR 48-22,000 Hz  $\pm$  3 dB; power range 20-70 W; sens 86 dB SPL/W/m; imp 4 ohms; black finish. Satellite 5.5 x 8.75 x 5.75 in, 5.5 lb; subwoofer 15.36 x 14.19 x 14.62 in, 32 lb. Satellites ..... \$390/pr

Subwoofer. .... \$450 ea

## RICH ACOUSTIC LABS

### MT88 3-Way Speaker

Features 2 8" poly cone woofers; 1" soft-dome tweeter; FR 31-20,000  $\pm$  3 dB; crossovers at 60 and 2,700 Hz; power range 10-250 W; nom imp 4 ohms; oak or walnut finishes; sens 91 dB SPL/W/m. 32.63 x 10.5 x 11.25 in ..... \$799/pr

### Model 8

Features 8" poly cone woofer; 1 1" soft-dome tweeter; FR 34-20,000  $\pm$  3 dB; crossover at 2,500 Hz; power range 10-200 W; nom imp 8 ohms; oak or walnut finishes; sens 90 dB SPL/W/m. 24 x 10.5 x 11.25 in. .... \$499/pr

### Model 6

Features 6 1/2" poly cone woofer; 3/4" soft-dome tweeter; FR 38-20,000  $\pm$  3 dB; crossover at 2,700 Hz; power range 10-150 W; nom imp 8 ohms; oak or walnut finishes; sens 90 dB SPL/W/m. 20.5 x 8.8 x 9.25 in. .... \$399/pr



# S P E A K E R S

## ROCKUSTICS

All Rockustic speakers are designed with an individually handcrafted natural-look stone enclosure to blend into outdoor landscaping. Rockustic speakers are completely waterproof and weatherproof for outdoor applications and feature positive, negative, and ground connection terminals.

**Stonehenge.** 3-way speaker with 8" woofer, 5.4" midrange, and 1" dome tweeter. FR 54-18,500 Hz  $\pm$  3 dB; power handling 150 W; imp 4 ohms; sens 90 dB SPL/W/m. 85 lb. \$1,300/pr

**Hillside.** 3-way speaker with 8" woofer, 5.4" midrange, and 1" dome tweeter. FR 54-18,500 Hz  $\pm$  3 dB; power handling 150 W; imp 4 ohms; sens 90 dB SPL/W/m. 120 lb. \$1,300/pr

**Rocky Jr.** 2-Way speaker with 6.5" long-throw polypropylene-cone woofer, 1" soft-dome ferrofluid-cooled tweeter, and third-order crossover (3,000 Hz). FR 58-18,500 Hz  $\pm$  2.5 dB; imp 5 ohms nominal, 3.7 ohms min; sens 90 dB SPL/W/m. \$325 ea

## SANSUI

### Vintage SP-100i

2-way magnetically-shielded bass reflex speaker. Features 8.25" filament carbon woofer with twin magnets; 1" titanium-diaphragm tweeter with diamond plating; inner-frame mounting with 1.5" rear baffle; front baffle; 1/2" die cast aluminum tweeter base; both speakers have cylindrical frames; tweeter's flange plate is attached to cork sheet; isolated crossover network; titanium black finish. FR 40-30,000 Hz; crossover at 1,500 Hz; sens 88 dB SPL/W/m; imp 6 ohms; 120 W max power. 17.69 x 11 x 13.44 in; 41.9 lb. \$1,800/pr

### S-2000U 3-Way Speaker

3-way design with passive radiator. Features 12" cone woofer; 4" cone midrange; 3" cone tweeter; 12" cone passive radiator. Power 160 W; sens 92 dB W/m; imp 8 ohms. 15.25 x 41 x 11 in; 44 lb. \$526/pr

### SP-X3U 3-Way Speaker

Acoustic-suspension 3-way speaker. Features rounded cabinet baffles; oak cabinets; 10" carbon-filled polypropylene woofer with butyl rubber surround; 5" carbon-filled polypropylene midrange cone; 3/4" ferrofluid cooled dome tweeter; silicone carbon-oxide core coil crossover network; gold-plated 5-way binding posts; FR 35-23,000 Hz  $\pm$  3 dB; 250 W max power; imp 8 ohms. 21.25 x 14 x 10.38 in; 17 lb. \$400/pr

### S-1000U 3-Way Speaker

Features 12" cone woofer; 4" cone midrange; 3" cone tweeter. Built in self-restoring overload protector. FR 32-22,000 Hz. max power 160 W; sens 91dB W/m; imp 8 ohms. 15.25 x 37.5 x 11 in; 39 lb. \$350/pr

### SP-X2U 2-Way Speaker

Acoustic suspension 2-way speaker. Features rounded cabinet baffles; oak cabinets; 8" carbon-filled polypropylene woofer with butyl rubber surround; 3/4" ferrofluid cooled dome tweeter; silicone carbon-oxide core coil crossover network; gold-plated 5-way binding posts; FR 40-23,000 Hz  $\pm$  3 dB; 200 W max power; imp 8 ohms. 21.25 x 11.75 x 10.38 in; 28 lb. \$300/pr

### SP-X1U 2-Way Speaker

Acoustic suspension 2-way speaker. Features rounded cabinet baffles; oak cabinets; 6 1/2" carbon-filled polypropylene woofer with butyl rubber surround; 1/2" ferrofluid cooled dome tweeter; silicone carbon-oxide core coil crossover network; nickel-plated 5-way binding posts; FR 50-22,000 Hz  $\pm$  3 dB; 150 W max power; imp 8 ohms. 14.5 x 9.5 x 9.13 in; 17 lb. \$220/pr

### S-71UE 3-Way Speaker

3-way speaker with built-in auto-reset overload protector. Features 15" cone woofer; 4" cone midrange; 3" cone tweeter; 175 W max power; imp 8

ohms; sens 92 dB/W/m; FR 29-22,000 Hz; walnut grain vinyl finish. 32 x 17.5 x 13 in; 37 lb. \$150/pr

### S-61UE 3-Way Speaker

3-way acoustic-suspension speaker. Features 12" cone woofer; 4" cone midrange; 3" cone tweeter; 175 W max power; imp 8 ohms; sens 91 dB W/m; FR 32-22,000 Hz; crossovers at 3,500 and 9,000 Hz; walnut grain finish. 30 x 14 x 11 in; 29.5 lb. \$140/pr

## SCOTT

All Scott speakers use acoustic-suspension enclosures with PVA-coated woofers and constant-impedance crossover networks.

### S12T6 Multidirectional Speaker

Floor-standing 3-way 6-driver speaker with 12" woofer, 2 4.5" ferrofluid-cooled midranges (1 front, 1 top), 3 1.75" ferrofluid-cooled tweeters (1 front, 2 top); oak vinyl finish. FR 42-20,000  $\pm$  4 dB; power range 15-175 W rms; sens 92 dB SPL/W/m; 16.5 x 31.2 x 10.7 in. \$500/pr

**S10T5.** Similar to S12T6 except 10" woofer, 5 drivers, max power 150 W. \$400/pr

### S153 Floor-Standing 3-Way Speaker

15" woofer, 4.5" ferrofluid-cooled midrange, 1.75" ferrofluid-cooled tweeter. FR 40-20,000 Hz  $\pm$  4 dB; power range 15-175 W rms; sens 91 dB SPL/W/m; 18.75 x 33 x 11 in; 45 lb. \$400/pr

**S123.** As above except 12" woofer and max power 150 W. \$330/pr

### Audiophile One 2-Way Speaker

Bookshelf speaker with 3-way binding posts; passive tweeter protection; air-core crossover coils; 6.5" woofer; 1" textile soft-dome tweeter. FR 55-22,000 Hz  $\pm$  4 dB; power range 15-150 W rms; sens 90 dB SPL/W/m; imp 4 ohms. Oak vinyl finish. 9.2 x 14.75 x 7.12 in. \$300/pr

### 10.3 3-Way Bookshelf Speaker

10" woofer; ferrofluid-cooled 4.5" midrange; 1.75" center-mounted ferrofluid-cooled tweeter; hickory vinyl finish. FR 45-20,000  $\pm$  4 dB; power range 10-100 W rms; sens 92 dB SPL/W/m; imp 8 ohms; 12.5 x 23.25 x 9 in. \$260/pr

### 8.2 2-Way Bookshelf Speaker

8" woofer; 1.75" ferrofluid-cooled tweeter; hickory vinyl finish. FR 55-20,000 Hz  $\pm$  4 dB; power range 5-85 W rms; sens 92 dB SPL/W/m; 10 x 18 x 7.5 in. \$160/pr

**6.2.** Similar to 8.2 except 6.5" woofer and max power 70 W. 9 x 15 x 7.5 in. \$140/pr

### SP38 3-Way Speaker

Features 8" woofer; 2" midrange; 2" tweeter; FR 50-19,000 Hz; 75 W max power handling. 11 x 21.25 x 8.5 in; 14 lb. \$140/pr

### SP28 2-Way Speaker

Features 8" woofer; 3" tweeter; FR 50-19,000 Hz; 40 W max power handling. 11 x 18 x 8.75 in; 14.5 lb. \$120/pr

## SDM BY SOUND DYNAMICS

All speakers are bass reflex, with 5" cone midrange, 1" horn tweeter, crossovers at 2,000 and 5,000 Hz, nominal impedance of 8 ohms, minimum impedance of 4 ohms, in walnut or black vinyl with black knit grilles.

### Monitor Three Speaker

12" woofer. FR 25-22,000 Hz  $\pm$  3 dB; sens 98 dB SPL/W/m; power range 15-125 W; 26 x 15 x 12-in; 33 lb each. \$500/pr

### Monitor Two Speaker

10" woofer. FR 30-22,000 Hz  $\pm$  3 dB; sens 97 dB SPL/W/m; power range 10-112 W; 24 x 14 x 9-in; 29 lb each. \$400/pr

### Monitor One Speaker

8" woofer. FR 35-22,000 Hz  $\pm$  3 dB; sens 96 dB SPL/W/m; power range 10-100 W; 23 x 12 x 9-in; 29 lb ea. \$330/pr

## SEATTLE SOUND

### P.S. 1 Bi-amplified Speaker System

Bi-amplified satellite/subwoofer system in self-contained high-density fiberboard enclosure. Features 4-subenclosure design; 4th-order Linkwitz-Reilly-type crossover at 150 Hz and 100-W amplifier for satellites which include one 6 1/2" polypropylene cone woofer and one 3/4" ferrofluid-cooled polyamide soft-dome tweeter; 2 separated subwoofer enclosures. Frequency response 20-20,000 Hz; THD <0.05%. 39 x 13.5 x 16.5 in. \$1,250 ea

### M Series

All M series speakers incorporate narrow, time-aligned front boards, propylene drivers, aluminum voice-coil bobbins, ferrofluid-cooled polyamide-dome tweeters, high-density enclosures, 3rd-order crossovers, heavy-duty 5-way binding posts, and 4th-order tuned-port enclosures. They are available with black oak vinyl, real walnut veneer, and high-gloss finishes. All prices given are with black oak vinyl finishes.

### M5

Features 8" subwoofer; 6 1/2" woofer; 1" tweeter; nom imp 8 ohms, sens 93 dB; FR 34-21,000 Hz; crossovers at 180 and 2,500 Hz; 175 W max power handling. 31 x 11 x 13 in; 47 lb. \$359 ea

### M4

Features 8" woofer; 3/4" tweeter; nom imp 8 ohms; sens 92 dB; FR 36-21,000 Hz; crossover at 2,500 Hz; 100 W max power handling. 28.25 x 10 x 12 in; 39 lb. \$359 ea

### M3

Features 6.5" woofer; 3/4" tweeter; nom imp 8 ohms; sens 91 dB; FR 42-21,000 Hz; crossover at 2,500 Hz; 100 W max power handling. 20.5 x 8 x 10 in; 23 lb. \$179 ea

### M2

Features 5 1/4" woofer; 3/4" tweeter; nom imp 8 ohms; sens 89 dB; frequency response 50-21,000 Hz; crossover at 2,500 Hz; 75 W max power handling. 13 x 7 x 8.5 in; 13 lb. \$119 ea

### C.I. Series

#### C.I.4

Custom-installed, free-standing speaker. Features 8" woofer; 3/4" tweeter; nom imp 8 ohms; sens 92 dB; frequency response 36-21,000 Hz; crossover at 2,500 Hz; 3rd-order symmetrical crossover; 4th-order tuned-port enclosure; 100 W max power handling. 22 x 14 x 9 in. \$250 ea

#### C.I.3

Custom-installed, free-standing speaker. Features 6 1/2" woofer; 3/4" tweeter; nom imp 8 ohms; sens 91 dB; FR 42-21,000 Hz; crossover at 2,500 Hz; 3rd-order symmetrical crossover; 4th-order tuned-port enclosure; 100 W max power handling. 22 x 10.25 x 7 in. \$200 ea

#### C.I.2

Custom-installed, free-standing speaker. Features 5 1/4" woofer; 3/4" tweeter; nom imp 8 ohms; sens 89 dB; frequency response 50-21,000 Hz; crossover at 2,500 Hz; 3rd-order symmetrical crossover; 4th-order tuned-port enclosure; 75 W max power handling. 15 x 14 x 3.5 in. \$150 ea

## SHAHINIAN ACOUSTICS

### Diapason Module Speaker

Asymmetric prism with unequal rakes in each direction made of 13-ply Finland birch. Features 4 x 5.25 in curved poly cone rubber-edge drivers; 1" alumi-

# S P E A K E R S

num voice coil; 20 oz ceramic magnet; tweeters 6 x 10 mm W-shaped titanium domes; FR 125-22,000 Hz - 3 dB; power handling est 250 W ave; 2 optional input filter choices or direct by-pass for bi-amp use filters; 2 optional roll off filters to facilitate exact matching or by-pass; teased lamb's wool damping; brown, black beige, bone, double knit polyester grill options; 40 lb ..... \$4,000/pr

### Obelisk 3-Way Speaker

Folded double-prism 50" hybrid transmission line speaker with 8" asymmetrically placed high temperature voice coil poly woofer, 10" mass-loaded-membrane viscous damped polypropylene passive radiator, two 1.36" cambric ultra light exposed dome midranges, four 0.36" "W" shaped polyimide-dome tweeters. Imp 4 ohms nominal; min power 50 W; max power 500 W. Walnut and oak standard finishes. Optional finishes available. 29 x 14.5 x 12.5 in; 55 lb ..... \$1,750/pr

### ARC 3-Way Speaker

Verical transmission-line speaker with time-aligned phase-correct driver placement. 8" high temperature voice coil polypropylene woofer; 10" mass-loaded-membrane viscous damped passive radiator; 1.36" cambric ultra-light exposed dome tweeter; imp 4 ohms nominal; min power 30 W; max power 350 W; Natural, medium or dark oak finish on 0.75" fiberboard. 27.5 x 14 x 9.75 in; 42 lb ..... \$1,050/pr

### LYRE 3-Way Speaker

Lamb's wool filled plastic isolation chamber for 5.25" Poly/Hybrid curved cone midrange. 8" Poly/Hybrid curved textured cone woofer with 1.5" Hi-temp voice coil; 1" Polyamide dome tweeter; 10" passive radiator. FR 30-18,000 Hz - 3 dB. Dark or light oak veneer; 23.50 x 11.75 x 11.75 in; 43 lb ..... \$850/pr

### ELF 2-Way Speaker

Forward firing small monitor with tuned-damped vent enclosure. 5.25" polypropylene woofer with rubber edge; 1" polypropylene-dome tweeter. FR 55-18,000 Hz - 3 dB; imp 6 ohms nominal; min power 25 W; max power 150 W. Natural medium or dark oak finish. 12.5 x 6.62 x 7.75 in; 26 lb/pr. . . \$375/pr

### Subwoofers

#### Double Eagle Stereo Subwoofer

Stereo subwoofer in one enclosure with acoustically separated channels. Two 8" polypropylene rubbered high-temperature voice coil woofers; two 10" mass-loaded-membrane viscous damped polypropylene passive radiators. FR 26-1,000 Hz - 3 dB; crossover 18 dB built in at 140 Hz; imp 6 ohms nominal/ch; max power short duration peaks 1,000 W. Walnut finish on Finland birch. Optional finishes available. 30 x 23 x 14 in; 105 lb ..... \$850/ea

## SIGNET

#### SL-100 Definitive Image Speaker

Floor-standing bass-reflex speaker with Ferralipse, a wide-dispersion frequency invariant acoustic lens to provide dispersion greater than 120 degrees at 20,000 Hz. Phase coherent for better imaging. Features 10" long-throw cone woofer; 3" soft-dome midrange; two 1" soft-dome tweeters. FR 40-20,000 Hz ± 3 dB; min power 25 W/rms; max power 200 W/rms; sens 90 dB spl/W/m; imp 8 ohms. 12.68 x 35.83 x 15.81 in; 66 lb ..... \$1,650/pr

## SNELL ACOUSTICS

#### Type A-III-Improved 4-Way Speaker

Floor-standing acoustic-suspension speaker with curved baffle to eliminate diffraction, mechanically isolated midrange enclosure, floor-loaded woofer, and rear-loaded supertweeter for accurate room response. Hand-adjustment of crossover values for specific drivers assures acoustic performance virtually identical to reference speaker. Features 12" high-

power long-excursion mass-loaded mechanically-isolated cone woofer; 5" mechanically-isolated cone midrange; 1" individually adjusted controlled-dispersion dome tweeter; 0.75" low-mass ferrofluid-cooled dome supertweeter. Dual gold-plated inputs allow biwiring or biamping with or without electronic crossover. FR 24-26,000 Hz ± 3 dB. 38-18,000 Hz ± 1 dB; power range 80-400 W rms; imp 4 ohms. Hand-sanded, hand-rubbed matching oak or walnut veneers. 23.5 x 50.75 x 14 in; 148 lb. Oak . . \$4,680/pr Walnut ..... \$4,490/pr

#### Type C-II 3-Way Speaker

Floor-standing bass reflex speaker system. Features 10" long-throw woofer; 5" midrange; 1" treated-cloth ferrofluid-cooled dome tweeter; .75" switchable rear tweeter; 4th order 24 dB/octave filters; bi-wirable or bi-ampable; hand-sanded, hand-rubbed matched veneers. FR 34-22,000 Hz ± 3 dB; power range 20-200 W. 14.5 x 11.75 x 46 in; 90 lb ..... \$1,890/pr

#### Type E/II 2-Way Speaker

Floor-standing bass-reflex speaker with 8" polymer-treated woofer, 1" soft-dome tweeter, and ultra-low-mass 0.75" ferrofluid-cooled rear-loaded dome supertweeter designed for flat early-arrival of sound and accuracy of listening room response. Hand-adjusted crossover for specific drivers assures acoustic performance virtually identical to reference speaker. Dual gold-plated inputs allow biwiring or biamping. Features rear-loaded port for optimum low-frequency room loading. Hand-sanded, hand-rubbed matching oak or walnut veneers. FR 35-20,000 Hz ± 3 dB; imp 8 ohms; sens 93 dB SPL/W/m; power range 15-150 W rms. 33 x 14 x 11 in. Oak ..... \$990/pr Walnut ..... \$990/pr

#### Type Q 2-Way Speaker

Bookshelf speaker designed for stand placement. Each speaker is individually adjusted to match a reference speaker within a fraction of a dB. Features 6.5" polypropylene cone woofer; 1" rear-firing textile-dome tweeter and a .75" rear-firing tweeter; flush grille to eliminate diffraction. Crossover frequency 2,200 Hz. Cabinets are hand-sanded and rubbed in matched pairs with oak or walnut veneer finish. 10.5 x 15.5 x 6.75 ..... \$780/pr

**Type Q Stand.** Speaker stand designed for use with Type Q speakers. Bolts directly to type Q's. Can be mass loaded with sand or lead and incorporate spikes on the bottom. Each stand provides for the bolting of a Type Q speaker directly to the stand. Oak or walnut veneer. 32" high ..... \$120/pr

#### Type J/II 2-Way Speaker

Bookshelf bass-reflex speaker designed to maximize accuracy of early arrival sound and listening room response. Hand-adjustment of crossover values for specific drivers assures acoustic performance virtually identical to reference speaker. Features 8" polymer-treated curvilinear cone woofer; 1" soft-dome tweeter; dual gold-plated inputs for optional biwiring and biamping. Hand-sanded, hand-rubbed oak or walnut veneers. Sens 92 dB SPL/W/m; power range 15-150 W rms; FR 49-22,000 Hz ± 2 dB; imp 8 ohms. 23 x 13 x 10 in; 38 lb. Oak ..... \$650/pr Walnut ..... \$680/pr

**Type J Stand.** Speaker stand designed for use with Type J speakers. Can be mass loaded with sand or lead and incorporate spikes on the bottom. Oak or walnut veneer. .... \$98/pr

#### Type K-II 2-Way Speaker

Bookshelf acoustic-suspension speaker with 8" polypropylene cone woofer and 0.75" ferrofluid-cooled soft-dome tweeter. Designed for accuracy of both early-arrival sound and listen-room power response. Hand-adjusted crossover values for specific drivers assures acoustic performance virtually identical to reference speaker. Dual inputs for optional biwiring or biamping. Oak, walnut, or black veneers. Imp 8 ohms; sens 90 dB SPL/W/m; power range 10-100 W rms. 18 x 11 x 9 in. Oak or walnut ..... \$465/pr

**Type K Stand.** Speaker stand designed for use with Type K speakers. Can be mass loaded with sand or lead and incorporates spikes on the bottom. Oak or walnut veneer. .... \$98/pr

## SONOGRAPHE BY CONRAD-JOHNSON

#### SL 21 Mini-Monitor Satellite Speaker

Vented; 6.5" polypropylene woofer; 1" dome tweeter; golden oak cabinet with brown grille. FR 52-20,000 Hz ± 2 dB; power range 10-80 W; sens 90 dB SPL/W/m; imp 8 ohms; 14.5 x 10.5 x 10.5-in \$695/pr

#### SW 1000 Stereo Subwoofer

2 side-firing magnetically shielded 10" woofers in golden oak cabinet. FR 25-110 Hz ± 2 dB; power range 10-200 W; sens 90 dB SPL/W/m; imp 8 ohms; 19.5 x 36 x 18-in. .... \$849/ea  
**SW 500.** Same as SW 1000 except mono, with single 10" woofer; 19.5 x 18 x 18-in. .... \$595/ea

## SONY

#### APM-66ES 3-Way Speaker

Bass-reflex speaker with APM (Accurate Pistonic Motion) driver technology that incorporates a light, rigid, flat-diaphragm design. Features 66 sq-in APM woofer; 7.4 sq-in APM midrange; 1.4 sq-in APM tweeter; built-in circuit breaker for tweeter protection; heavy-duty cabinet construction with rounded edges. Includes speaker cord. FR 30-30,000 Hz; sens 89 dB SPL/W/m; power capacity 100 W nominal, 200 W peak; nominal imp 6 ohms; crossover frequencies 600 and 4,500 Hz. 15 x 26 x 14.38 in. .... \$1,100/pr

#### APM-22ES 2-Way Speaker

Bass-reflex speaker with APM (Accurate Pistonic Motion) driver technology that incorporates a light, rigid, flat-diaphragm design. Features 45 sq-in APM woofer; 1.4 sq-in APM tweeter; built-in circuit breaker for tweeter protection; heavy-duty cabinet construction with rounded edges. Includes speaker cord. FR 40-20,000 Hz; sens 88 dB SPL/W/m; power capacity 80 W nominal, 160 W peak; nominal imp 6 ohms; crossover frequency 2,000 Hz. 11.5 x 20.38 x 12.62 in. .... \$500/pr

#### SA-W30 Powered Subwoofer

Powered bass-reflex subwoofer with turn over frequency selector. Features built-in 60-W amplifier; 12" woofer; selectable operating frequencies of 60, 90, and 140 Hz; level control; removable castors. Sens 88 dB; FR 23-5,000 Hz; damping factor 100. 19.5 x 19 x 15.63 in. .... \$450

## SOTA INDUSTRIES

#### Panorama 2-Way Monitor

Time-Domain speaker with bass extension of 45 Hz ± 3 dB. Features truncated pyramid enclosure; 7" woofer; 1" hard-dome tweeter; 1.25" walls; hard/soft structural damping on woofers; FR 45-22,000 Hz ± 3 dB; max power handling 150 W/ch; nom imp 6 ohms; sens 90 dB; crossover at 3,200 Hz; 12 x 18 x 6 in; 35 lb. Oak or cherry ..... \$1,495  
Brazilian rosewood, ebony ..... \$1,795  
Black ..... \$1,695

## SOUND DYNAMICS

#### 1500 Concert Monitor

Computer-tuned 2-way bass-reflex, mirror-imaged pairs with matched parts. 1" horn-loaded soft-dome tweeter with free-floating dome suspension; 15" woofer with high-gauss linear forced motor and epoxy potting. FR 25-22,000 Hz ± 3 dB; sens 102 dB SPL/W/m; min power 20 W; max power 250 W; imp 8 ohms. 34.75 x 18 x 16-in; 90 lb. .... \$1,000/pr

#### 700 Concert Monitor

Computer-tuned 2-way bass-reflex mirror-imaged pairs. 1" horn-loaded tweeter with free-floating



# S P E A K E R S

suspension; 12" woofer with high-gauss linear forced motor and epoxy potting. FR 30-22,000 Hz  $\pm$  3 dB; sens 101 dB SPL/W/m; min power 15 W; max power 200 W; imp 8 ohms. 27.75 x 14.36 x 12-in; 45 lb ea; black ash vinyl veneer. . . . . \$750/pr

### 500 Concert Monitor

Computer-tuned 2-way bass-reflex mirror-imaged pairs with matched parts. 1" horn-loaded soft-dome tweeter with free-floating suspension; 10" high-gauss plastic-coated woofer. FR 34-23,000 Hz  $\pm$  3 dB; sens 98.5 dB SPL /W/m; min power 10 W; max power 200 W; imp 8 ohms. 23.36 x 12.12 x 11.88-in; 38 lbs each; black ash vinyl veneer; . . . . . \$550/pr

### 100S Mk II Bookshelf Speaker

Bass reflex speaker with 6.5" polypropylene cone woofer and 1" dome tweeter. FR 50-20,000 Hz  $\pm$  3 dB; power range 10-7 W rms; sens 93 dB SPL/W/m; imp 8 ohms; black ash vinyl veneer; 15.9 x 9.5 x 9.5-in; 20 lb. . . . . \$260/pr

## S P E A K E R L A B

### DAS Series Speakers

All DAS speakers are available in ebony, walnut, light oak, or high-gloss lacquer finishes.

**DAS-8.** Floor-placement speaker with Inverse Axis Alignment (IAA); computer-designed rear vent, and rear-mounted subwoofer. Features one 10" and one 12" woofer; 1" dome tweeter; one 6.5" cone and one 3" dome midrange. Crossover 150, 350, 1,500, 5,000 Hz; sens 94 dB SPL/W/m; imp 4 ohms; FR 23-21,000 Hz  $\pm$  3 dB; power range 20-300 W rms/ch. 46 x 16 x 13 in. . . . . \$1,998/pr

**DAS-7.** Floor-placement speaker with IAA, computer-designed rear vent, and rear-mounted subwoofer. Features 10" and 12" woofers; 1" dome tweeter; 6.5" cone midrange. Crossover 180, 350, 3,000 Hz; sens 94 dB SPL/W/m; impedance 4 ohms; FR 25-21,000 Hz  $\pm$  3 dB; power range 20-275 W rms/ch. 38.5 x 14 x 16 in; 86 lb. . . . . \$1,198/pr

**DAS-6.** Floor-placement speaker with IAA, computer-designed rear vent, and rear-mounted subwoofer. Features one 8" and one 10" woofer; 1" dome tweeter. Crossover 180, 2,500 Hz; sens 94 dB SPL/W/m; imp 4 ohms; FR 30-21,000 Hz  $\pm$  3 dB; power range 20-275 W rms/ch. 36 x 12.5 x 14 in; 62 lb. . . . . \$958/pr

**DAS-5.** Bookshelf or floor-placement speaker with IAA, computer-designed rear vent, and rear mounted subwoofer. Features one 8" and one 6.5" woofer; 1" dome tweeter. Crossover 180, 2,500 Hz; sens 93 dB SPL/W/m; imp 4 ohms; FR 34-21,000 Hz  $\pm$  3 dB; power range 20-175 W rms/ch. 31 x 11 x 13 in; 47 lb. . . . . \$718/pr

**DAS-4.** Bookshelf or floor-placement speaker with IAA and computer-designed rear vent. Features 8" woofer; .75" dome tweeter. Crossover 2,500 Hz; sens 92 dB SPL/W/m; imp 4 ohms; FR 36-21,000 Hz  $\pm$  3 dB; power range 20-100 W rms/ch. 28 x 10 x 12 in; 39 lb. . . . . \$478/pr

**DAS-3.** Bookshelf or floor-placement speaker with IAA and computer-designed rear vent. Features 8" woofer; .75" dome tweeter. Crossover 2,500 Hz; sens 91 dB SPL/W/m; imp 4 ohms; FR 42-21,000 Hz  $\pm$  3 dB; max power 100 W. 21 x 8 x 10 in. . . . . \$358/pr

**DAS-2.** Bookshelf or floor-placement speaker with IAA and computer-designed rear vent. Features 5.25" woofer; .75" dome tweeter. Crossover 2,500 Hz; sens 91 dB SPL/W/m; imp 8 ohms; FR 50-21,000 Hz  $\pm$  3 dB; max power 75 W. 13 x 7 x 8.5 in. . . . . \$238/pr

### DAS-SW Subwoofer

Features computer-designed rear vent; 10" dual-voice-coil woofer. Crossover 150 Hz; sens 92 dB SPL/W/m; imp 8 ohms; FR 30-160 Hz  $\pm$  3 dB; power range 20-150 W rms/ch. 18 x 18 x 18 in; 62 lb \$389 ea

## S P E C T R U M L O U D S P E A K E R S

### Model 410 2-Way Speaker

Floor-standing Thiele-aligned bass-reflex speaker.

Features plastic-impregnated 10" composite matrix cone woofer; 1" dome tweeter with acoustic imp transformer; FR 18-22,000 Hz; min power 30 W rms; max power 250 W; sens 89 dB SPL/W/m; natural oak or walnut. 38.5 x 14.5 x 11.75 in. . . . . \$799/pr

### 208B Stand-Mount Speaker

Thiele-aligned bass-reflex speaker designed for floor placement on special stands. Features 8" cone woofer; 1" fabric soft dome; finished in walnut vinyl; power range 20-150 W; FR 38-20,000 Hz  $\pm$  2 dB; sens 91 dB SPL/W/m. 25.5 x 14.5 x 10.5 in. . . . . \$449/pr  
**Black 208B.** Black grain vinyl. . . . . \$449/pr  
**Oak 208B.** Oak veneer . . . . . \$549/pr  
**Black lacquered stands** . . . . . \$59/pr

### New 108A Bookshelf Speaker

Thiele-optimized bass-reflex speaker. Features 8" cone woofer; 1.5" cone tweeter with aluminum dome; FR 55-20,000 Hz  $\pm$  3 dB; sens 92 dB SPL/W/m; imp 8 ohms; furniture-grade walnut-vinyl finish. 14.5 x 11.5 x 9.0 in; 30 lb/pr . . . . . \$269/pr  
**Black 108A.** Black grain vinyl. . . . . \$269/pr  
**Oak 108A.** Oak veneer . . . . . \$339/pr

## S P I C A

### Angelus Floor Standing Speaker

Mirror imaged speaker system with 8" plastic cone bass/mid driver, 1" soft dome tweeter, computer optimized crossover, built in adjustable spikes. FR 45-17,500 Hz  $\pm$  3 dB (90-15,000 Hz  $\pm$  1.5 dB); crossover 3,400 Hz (-6 dB); recommended power 50-200 W; imp 8 ohms; 21 x 46 x 10.25 in; 57 lb; Walnut finish . . . . . \$1,095/pr  
**Oak finish** . . . . . \$1,050/pr

### TC-50 Bookshelf Speaker

Acoustic-suspension bookshelf speaker with triangular shape allowing system to be within 15% of absolute phase from 350-5,000 Hz. Features 6" cone woofer, 1" dome tweeter. FR 60-16,000 Hz  $\pm$  3 dB; power range 25-50 W, 100 W peak; sens 83 dB SPL/W/m; imp 4 ohms; 13 x 15.55 x 11.75 in; 21 lb/ea. Oak or walnut veneer . . . . . \$550/pr

## S P L

All speakers have dome tweeters, nominal impedance of 8 ohms, with minimum impedance of 6 ohms, in black-ash vinyl with black knit grilles.

### 4000 Bass-Reflex Speaker

2-10" woofers; 1" tweeter; crossover at 2,200 Hz. FR 25-22,000 Hz  $\pm$  3 dB; sens 98 dB SPL/W/m; power range 20-150 W; 43 x 13 x 15-in; 65 lb ea. . . . . \$900/pr

### 3000 Bass-Reflex Speaker

2-8" woofers; 1" tweeter; crossover at 2,200 Hz. FR 30-22,000 Hz  $\pm$  3 dB; sens 96.6 dB SPL/W/m; power range 15-125 W; 37 x 12 x 15; 52 lb ea. . . . . \$700/pr

### 2000 Passive Radiator Speaker

8" woofer; 1" tweeter; crossover at 2,200 Hz. FR 35-22,000 Hz  $\pm$  3 dB; sens 95 dB SPL/W/m; power range 10-100 W; 33 x 12 x 9-in; 33 lb ea. . . . . \$500/pr

### 1000 Bass-Reflex Speaker

2-5.25" woofers; 0.75" tweeter; crossover at 3,000 Hz. FR 40-20,000 Hz  $\pm$  3 dB; sens 90 dB SPL/W/m; power range 10-100 W; 21 x 10 x 12-in; 21 lb each \$350/pr

## S U M O

### Samson Bass-Reflex Subwoofer

Floor-standing subwoofer with 15" composite-cone woofer, 18.62-lb magnet assembly, 4" edgedwood copper voice coil; symmetrical magnetic-field motor structure. Features built-in 1,000-W PWM digital-switching amp. Solid 1" butcher-block oak top. FR 20-120 Hz  $\pm$  1 dB; max power 1,000 W; sens 91 dB SPL/W/m; imp 8 ohms. 27.5 x 22 x 18 in. \$2,249 ea  
 Without built-in amp. . . . . \$749 ea

### Opus Two 2-Way Speaker

Floor-standing acoustic-suspension speaker with 6.5" treated-cone woofer, 1" composite-dome tweeter with copper-clad aluminum voice coil. Features symmetrical magnetic-filed woofer design with copper-clad pole piece for reduced 2nd-order harmonic distortion; imp-matching conjugate crossover network with extremely low group delay ( $\pm$  0.2 ms from 100-20,000 Hz); solid-oak end caps. FR 42-24,000 Hz  $\pm$  0, -3 dB min power 35 W rms; max power 250 W rms; sens 85 dB SPL/W/m; imp 4 ohms. Oak or piano-finish black. 10.5 x 39 x 5 in; 20 lb. . . . . \$699/pr  
**Opus Three.** Bookshelf version of Opus Two. 10.25 x 17.5 x 9.75 in; 16 lb . . . . . \$649/pr

## S Y M D E X

### Epsilon Floor-Standing Speaker

Sealed-box speaker with modular phase-linear crossovers. Features time-aligned drivers; polpropylene capacitors in crossover; 10" cone woofer; 6.5" cone midrange; 1" soft-dome tweeter. Power range 50-250 W; sens 85 dB SPL/W/m; imp 8 ohms; 13 x 48.5 x 13 in; 110 lb; black cloth with oak or black top plate; computer-matched pairs . . . . . \$2,000/pr

### Gamma 2 Way Floor-Standing Speaker

Acoustic suspension speaker with 1" cambric soft dome tweeter, 6.5" bextrene sandwich individually damped woofer. FR 60-20,000 Hz; crossover 1st order, bi-wire capability; High Q air core coils; polypropylene capacitors; noninductive wire wound resistors; 45 lb; 10 x 6 x 39 in; base plate measures 13 x 13 in; computer-matched pairs . . . . . \$1,000/pr

### E.I.S.A. 2-Way Speaker

Compact 2-way acoustic suspension speaker. Features 6.5" midbass driver; 1" dome tweeter; 1st order crossover with bi-wire capability. 10 x 8 x 16 in; 25 lb. Available in oak or black ash with black grilles; computer-matched pairs . . . . . \$550/pr

## S Y N T H E S I S B Y C O N R A D - J O H N S O N

### Reference Speaker System

5-piece system with 2 subwoofer columns (each with 2 10" woofers), 2 midrange/high-frequency units with 7" midranges, 1" dome tweeters, leaf supertweeter; golden oak with radiused solid-hardwood edges; active electronic crossover supplied. FR 22-32,000 Hz  $\pm$  2 dB; power range 10-250 W; sens 91 dB SPL/W/m; imp 8 ohms; subwoofer columns 69 x 14 x 14 in.; satellites 44 x 10 x 10 in. . . . . \$6,800/system

### I.M 310 Floor-Standing 3-Way Speaker

10" woofer; 7" midrange; 1" dome tweeter; oak cabinet with radiused solid hardwood edges. FR 25-20,000 Hz  $\pm$  2 dB; power range 10-200 W; sens 91 dB SPL/W/m; imp 8 ohms; 45.5 x 13.75 x 14.5-in.; 70 lb. . . . . \$3,250/pr

### I.M 300 Floor-Standing 3-Way Speaker

10" woofer; 7" midrange; 1" dome tweeter; oak finish with cream, brown, or black grille. FR 32-20,000 Hz  $\pm$  2 dB; power range 10-100 W; sens 91 dB SPL/W/m; imp 8 ohms; 44 x 13.75 x 14.5 in; 70 lb. . . . . \$2,450/pr

### I.M 260 Floor-Standing 2-Way Speaker

Ported; 8" polypropylene woofer; 1" dome tweeter; oak cabinet with radiused solid-hardwood edges. FR 41-20,000 Hz  $\pm$  2 dB; power range 10-100 W; sens 91 dB; imp 8 ohms; 39.5 x 12 x 11 in. . . . . \$1,695/pr

### M 250 Floor-Standing 2-Way Speaker

Ported speaker with 8" cone woofer and 1" dome tweeter; oak finish with cream, brown, or black grille. FR 42-20,000 Hz  $\pm$  2 dB; power range 10-80 W; sens 91 dB SPL/W/m; imp 8 ohms. 33.75 x 10.63 x 11.12-in.; 45 . . . . . \$1,185/pr

### I.M 210 Floor-Standing 2-Way Speaker

Ported speaker with 6.5" polypropylene woofer; 1"

# S P E A K E R S

dome tweeter; oak cabinet with radiused solid-hardwood edges. FR 46-20,000 Hz  $\pm$  2 dB; power range 10-80 W; sens 90 dB SPL/W/m; imp 8 ohms; 33.5 x 10.5 x 10.5 in. .... \$1,195/pr

## TANNOY

### *Prestige Series*

**Westminster.** Floor-standing dual-concentric speaker with Sync-Source Time Alignment; compound horn enclosure; 15" cone woofer; 2" compression-horn tweeter. FR 18-20,000 Hz  $\pm$  2 dB; max power 200 W; sens 96 dB SPL/W/m; imp 8 ohms. 43 x 59 x 28 in; 253 lb each. Walnut finish ..... \$9,495/pr

**RHR.** Floor-standing dual concentric high-compliance speaker with Sync-Source Time Alignment. Features rear folded horn rectangular exponential section; direct radiating front section; 250 W max power handling; sens 92 dB; nom imp 8 ohms; FR 35-20,000 Hz  $\pm$  4 dB; hard-wired passive crossover at 1,000 Hz. 48.9 x 27.6 x 22.7 in; 165.3 lb. \$8,995/pr

**Guy R. Fountain Memory.** Floor-standing dual-concentric speaker with Sync-Source Time Alignment; quadruple-ducted-port enclosure; 15" cone woofer; 2" compression-horn tweeter. FR 29-20,000 Hz  $\pm$  3 dB; min power 10 W; max power 200 W; sens 95 dB SPL/W/m; imp 8 ohms. 31 x 43 x 19 in; 136 lb each. Walnut finish ..... \$5,995/pr

**Edinburgh.** Floor-standing dual-concentric speaker with Sync-Source Time alignment; distributed port reflex enclosure; 12" cone woofer; 2" compression horn tweeter. FR 30-20,000 Hz  $\pm$  3 dB; min power 10 W; max power 200 W; sens 92 dB SPL/W/m; imp 8 ohms. 25.5 x 40 x 16.5 in; 97 lb each; walnut finish ..... \$4,995/pr

**Stirling.** Floor-standing dual-concentric speaker with Sync-Source Time Alignment; dual variable-distributed enclosure; 10" cone woofer; 2" compression-horn tweeter. FR 35-20,000 Hz  $\pm$  3 dB; min power 10 W; max power 150 W; sens 93 dB SPL/W/m; imp 8 ohms. 20.5 x 33.5 x 15 in; 48.5 lb each. Walnut finish ..... \$3,995/pr

### *Planet Series*

**Jupiter S.** Floor-standing speaker with 3 drivers. Features twin 8" woofers and one 1" tweeter; power range 10-125 W/ch; nom imp 8 ohms; 91 dB SPL/W/m; FR 42-22,000 Hz  $\pm$  3 dB. 10.25 x 10.7 x 25.6 in; 29.8 lb ..... \$899/pr

**Mercury Gold II.** Tuned-port bookshelf speaker; 8" woofer, dome tweeter. FR 52-20,000 Hz  $\pm$  3 dB; power range 25-120 W; sens 93 dB SPL/W/m; imp 8 ohms; 9.75 x 20 x 9 in; 17 lb ..... \$850/pr

**Mercury S.** 2-way speaker with ducted port. Features 10-100 W power range; nom imp 8 ohm; sens 89 dB SPL/W/m; crossover at 3,000 Hz. 9.8 x 8.25 x 19.6 in; 14.1 lb ..... \$599/pr

**Eclipse.** Tuned-port bookshelf speaker; 6.5" woofer, dome tweeter. FR 53-20,000 Hz  $\pm$  3 dB; power range 25-100 W; sens 93 dB SPL/W/m; imp 8 ohms; 8 x 12 x 8 in; 9 lb ..... \$350/pr

### *Comet Series*

**C-10.** 2-Way speaker. Features 10" polycone woofer; 1" dome tweeter; high-density particle-board cabinet; nom imp 8 ohms; 125 W/ch max power handling; sens 94 dB. 24 x 12 x 11.5 in; 27 lb ..... \$499/pr

**C-8.** 2-Way speaker. Features 8" polycone woofer; 1" dome tweeter; high-density particle-board cabinet; nom imp 8 ohms; 100 W/ch max power handling; sens 93 dB. 19 x 10.25 x 9 in; 17.5 lb. .... \$399/pr

**C-6.** 2-Way speaker. Features 6 1/2" polycone woofer; 3/4" dome tweeter; high-density particle-board cabinet; nom imp 8 ohms; 100 W/ch max power handling; sens 90 dB. 11.9 x 8 x 8.5 in; 10 lb \$299/pr

## TDL

### **Reference Standard Transmission Line Speakers**

Floor-standing, dual transmission-line bass, 6-sided speakers. Feature 2 mid-range units loaded by their own transmission-line; 2 woofers; 2-tweeters mounted symmetrically in-line around the central super-tweeter; 2-sets of input terminals for bass and mid & upper frequencies optional; 4-way crossover at 200 Hz; FR 16-35,000 Hz; imp 4-8 ohms; sens 87 dB/W/m; 1180 x 558 x 496 cm; black w/ polished aluminum trim or brown w/ laminated wood top and solid brass trim. .... \$6,995/pr

### **Monitor Transmission Line Speakers**

Floor-standing, transmission-line speakers. Feature full transmission-line loading around bi-radial woofer; solid polystyrene diaphragm with glass-fibre reinforcing; midrange unit 15 cm doped polymer cone; magnesium alloy metal dome tweeters; chemical dome ferro-fluid controlled super-tweeter; magnets have vented poles; 2-pairs of input terminals for bass frequencies and for mid & high frequencies; 4-way electrical crossover at 300 Hz; FR 18-35,000 Hz; imp 4-8 ohms; sens 87 dB/W/m; 1150 x 300 x 470 cm; Walnut with gold trim and brown grille, or black with silver trim and black grille. .... \$4,595/pr

### **Studio 3 Transmission Line Speakers**

Transmission-line speakers. Feature 2 doped Cobex cone, vented pole woofers; magnesium alloy, suspended metal dome, ferro-fluid tweeter with separate rear chamber; 2-way electrical crossover; FR 24-20,000 Hz; imp 8 ohms; sens 87 dB/W/m; 950 x 300 x 416 cm; walnut or black finish ..... \$1,995/pr

**Studio 2.** Similar to Studio 3 except 1 Cobex cone woofer; FR 20-20,000 Hz; 850 x 270 x 376 cm ..... \$1,545/pr

### **Super Compact Loudspeaker**

Reflex system speakers. Feature 20.5 cm doped Cobex cone, vented pole woofer; 2.5 cm magnesium alloy metal dome tweeters with separate rear chamber; 2-way electrical crossover at 3,000 Hz; FR 28-20,000 Hz; imp 8 ohms; sens 87 dB/W/m; 500 x 270 x 312 cm; walnut or black finish ..... \$1,095/pr

**Compact Loudspeaker.** Similar to Super compact loudspeakers except 16.5 cm doped Cobex cone woofers; FR 30-20,000 Hz; sens 86 dB/W/m; 440 x 230 x 287 cm ..... \$935/pr

## TECHNICS

### **SB-RX50 Bass-Reflex Bookshelf Speaker**

2-way speaker with 9.5" flat-diaphragm woofer and coaxial 1.12" flat-diaphragm tweeter. Can be placed upright or sideways without affecting sound quality. FR 30-48,000 Hz at 16 dB below average level; max power 160 W music; sens 87 dB SPL/W/m; imp 6 ohms. Wood finish. 11.89 x 18.92 x 11.09 in; 36.4 lb ..... \$1,050/pr

### **SB-RX30 2-Way Bookshelf Speaker**

Bass-reflex speaker with magnetic shielding for placement near TV's. Features 9" flat-diaphragm woofer and 1.12" flat-diaphragm coaxial tweeter. FR 44-30,000 Hz at 16 dB below average level; max power 120 W music; sens 88 dB SPL/W/m; imp 6 ohms. Wood finish. 10.56 x 14.97 x 8.97 in; 16.5 lb \$490/pr

### **SB-196 3-Way Floor-Standing Speaker**

Bass-reflex speaker with diffuser-equipped tweeter. Linear-phase design for waveform fidelity. Features 15" cone woofer; 4" cone midrange; 2.12" cone tweeter; aluminum bobbins and heat-resistant voice coils for high power handling; non-resonant fabric dust caps. FR 32-22,000 Hz at 16 dB below average level; max power 200 W music; sens 93 dB

SPL/W/m; imp 8 ohms. Simulated woodgrain finish. 17.75 x 31.36 x 12.92 in; 35.9 lb ..... \$380/pr

### **SB-C250 2-Way Compact Speaker**

With 7" crystallized MICA PP-diaphragm cone woofer, 1" dome tweeter. Max power 100 W music. 9.19 x 14.62 x 8 in ..... \$340/pr

### **SB-L76 3-Way Floor-Standing Speaker**

Bass-reflex speaker with 12" woofer; 4" midrange; 2.12" tweeter; aluminum bobbins and heat-resistant voice coils for high power handling; non-resonant-fabric dust caps. FR 33-22,000 Hz at 16 dB below average level; max power 150 W music; sens 92 dB SPL/W/m; imp 8 ohms. Simulated woodgrain finish. 14.19 x 27.16 x 12.84 in; 23.8 lb ..... \$280/pr

### **SB-L56 3-Way Floor-Standing Speaker**

Bass-reflex speaker with 10" cone woofer, 4" cone midrange, 2.12" cone tweeter. FR 37-22,000 Hz at 16 dB below average level; max power 120 W music; sens 92 dB SPL/W/m; imp 8 ohms. Simulated woodgrain finish. 12.78 x 25.59 x 10.56 in; 18.7 lb ..... \$230/pr

### **SB-L36 2-Way Floor-Standing Speaker**

Bass-reflex speaker with 10" cone woofer, 2.12" cone tweeter. FR 42-22,000 Hz at 16 dB below average level; max power 100 W music; sens 92 dB SPL/W/m; imp 8 ohms. Simulated woodgrain finish. 12.78 x 25.16 x 8.97 in; 16.3 lb ..... \$160/pr

### *Micro Series*

#### **SB-F2MK2 Mini Honeycomb-Disc Speaker**

Sealed-box speaker in die-cast metal enclosure. Internally shielded. Resettable thermal relay protection. Protective metal grilles. Switchable 4/8-ohm imp; tripod mountable. Linear-phase design. Contains 5.5" honeycomb disc woofer; 1.12" honeycomb disc tweeter. FR 55-33,000 Hz  $\pm$  5; max power 100 W music. 50 W DIN; sens 88 dB SPL/W/m; imp 4/8 ohms; metallic; 11 lb; 6.25 x 10.06 x 6.75 in \$410/pr

#### **SB-R100 Passive-Radiator Speaker**

Ported speaker for wall mounting. Features 3 concentric coaxial honeycomb-disc drivers, outermost of which is a passive radiator, all in the same plane for phase linearity; resettable thermal relay protection; internally shielded; includes wall-mounting kit and flat speaker cables. Contains 10" (outer diameter) honeycomb-disc passive radiator; honeycomb-disc woofer; 1 honeycomb-disc midrange; 1 honeycomb-disc tweeter. FR 70-25,000 Hz  $\pm$  5 dB; max power 100 W music. 50 W DIN; sens 87 dB SPL/W/m; imp 8 ohms; available in black; 9.9 lb; 12.36 x 12.36 x 2.5 in ..... \$480/pr

#### **SB-F1MK2 Mini Honeycomb-Disc Speaker**

Sealed-box speaker in die-cast metal enclosure; Internal shielding; resettable thermal relay protection; protective metal grille; switchable 4/8-ohm imp; tripod mountable; linear-phase design. 4.75" woofer; 1.12" tweeter. FR 65-33,000 Hz  $\pm$  5 dB; max power 80 W music. 40 W DIN; sens 86 dB SPL/W/m; 6.4 lb; 5.25 x 8.5 x 5.36 in ..... \$340/pr

#### **SB-S20 2-Way Speaker**

2-way acoustic suspension bookshelf speaker. Features 4" woofer; 1.5" tweeter; imp 8 ohms. \$100/pr

## THIEL

#### **CS 3.5 Coherent Source Speaker**

Floor-standing electronic-bass-equalized speaker with 10" cone woofer, 4" cone midrange, and 1" dome tweeter. Features complete time coherence by sloping baffle; complete phase coherence by synthesized first-order crossover system; 3-dimensional sculpted anti-diffraction baffle; electronic bass system; magnetic distortion reducing drivers; cast magnesium driver chassis; polypropylene crossover capacitors; 30-mm thick cabinet panels; real wood veneer. FR 23-20,000

The listings are based on data provided by the manufacturers. For more product information, contact an authorized dealer or the manufacturer directly. Manufacturers' addresses and phone numbers are listed in the directory beginning on page 217.



# S P E A K E R S

Hz  $\pm$  2 dB; Power range 50-250 W rms; sens 89 dB SPL/W/m; imp 4 ohms. Teak, oak, walnut, black, rosewood finishes. 13 x 42 x 13 in; 75 lb. \$2,450/pr

## CS 2 Coherent Source Speaker

Floor-standing ported speaker with 8" cone woofer, 3" cone midrange, and 1" dome tweeter. Completely time and phase coherent. Time coherence achieved with sloping baffle; phase coherence achieved with synthesized first-order crossover networks. Features anti-diffraction grille; cast magnesium driver baskets; polypropylene crossover capacitors. FR 38-20,000 Hz  $\pm$  2 dB; power range 50-250 W; sens 87 dB SPL/W/m; imp 6 ohms. Oak, walnut, black, rosewood, teak finishes. 12 x 39 x 12 in; 62 lb. \$1,550/pr

## CS1.2 Coherent Source Loudspeaker

Floor-standing system with sloping baffle. Features metal dome tweeter; woofer features cast magnesium chassis; polypropylene diaphragm; sculpted grille; FR 52-18,000 Hz  $\pm$  2 dB; phase response of min  $\pm$  10; sens 87 dB/W/m; imp 8 ohm; cabinet constructed with 1" MFD; heavy internal bracing; finished with Teak, Walnut, Oak, Rosewood, Black laminate; 26.5 x 26.5 x 91.5 cm; 47 lb. \$1,090

## ULTRALINEAR BY ESS

### UL-1530 Speaker

Floor-standing 3-way acoustic-suspension speaker protective circuit and resetting circuit breaker. Features 15" cone woofer; 4.5" cone midrange; 2.5" cone tweeter. FR 40-22,000 Hz  $\pm$  3 dB; minimum power 10 W rms, max power 125 W rms; sens 92.5 dB SPL/W/m; imp 4 ohms; walnut, grain vinyl finish; 54 lb; 17.75 x 29.75 x 14.5 in. \$318/pr

### UL-1230 Speaker

Floor-standing acoustic-suspension speaker with 12" cone woofer, 4.5" cone midrange, and 2.5" cone tweeter. Features protective circuit with resetting circuit breaker. FR 45-22,000 Hz  $\pm$  3 dB; minimum power 5 W rms, max power 100 W rms; sens 92.5 dB SPL/W/m; imp 4 ohms; walnut grain vinyl; 29 lb; 14.5 x 26.5 x 10.75 in. \$260/pr

### UL-1030 Speaker

Floor-standing acoustic-suspension speaker with protective circuit and resetting circuit breaker. Contains 10" cone woofer; 4.5" cone midrange; 2.5" cone tweeter. FR 50-22,000 Hz  $\pm$  3 dB; minimum power 5 W rms, max power 100 W rms; sens 92.5 dB SPL/W/m; imp 4 ohms; walnut vinyl finish; 29 lb; 14.5 x 26.5 x 10.75 in. \$198/pr

### UL-208 Speaker

Bookshelf acoustic-suspension speaker 8" cone woofer and 2.5" cone tweeter. Features protective circuit with resetting circuit breaker. FR 60-22,000 Hz  $\pm$  3 dB; minimum power 5 W rms, max power 100 W rms; sens 93 dB SPL/W/m; imp 4 ohms; walnut grain vinyl finish; 18 lb; 10.75 x 18 x 8 in. \$158/pr

## VANDERSTEEN AUDIO

### Model 4 5-Way Speaker

Floor-standing dynamically aligned sealed 5-way speaker in cast basket. Features two 12" cone subwoofers; 8" cone woofer; 4.5" cone midrange; 1.12" dome tweeter; 0.75" dome supertweeter. FR 26-30,000 Hz  $\pm$  2 dB; power range 100-200 W; sens 89 dB; imp 4 ohms. 18 x 52 x 17 in. \$3,850/pr

### Model 2C 4-Way Speaker

Floor-standing 4-way bi-wired speaker. Features 10" cone subwoofer; 8" cone woofer; 4.5" cone midrange; 1" dome tweeter. FR 29-21,000 Hz  $\pm$  2 dB; power range 40-150 W; sens 89 dB SPL/W/m; imp 8 ohms. 16 x 36 x 10 in; 60 lb. Oak or walnut. \$1,125/pr

### 2W Subwoofer

Floor-standing sealed speaker with three 8" cone woofers. Features 200-W internal amp; cast basket;

crossover. FR 26-80 Hz  $\pm$  3 dB; sens 82-94 dB SPL/W/m. 18 x 18 x 17 in; 80 lb. Oak or walnut. \$1,200/ea

### Model 1B 2-Way Speaker

Floor-standing ported speaker. Features 8" cone woofer; 1" dome tweeter. FR 38-20,000 Hz  $\pm$  3 dB; power range 20 W; sens 100 dB SPL/W/m; imp 8 ohms. 12 x 36 x 10 in; 50 lb. Oak or walnut \$650/pr

## VECTOR RESEARCH

*All Vector Research speakers feature anti-resonant one-piece woofer baskets; mid- and high-frequency drivers with ferrofluid damping; soft-dome tweeters; bass-reflex design; 8 ohm impedance; light-oak finish.*

VSP-124. Features 12" woofer; 5" midrange; 1" tweeter; 12" passive radiator. Power range 10-250 W; sens 92 dB. 14.5 x 39.25 x 12.5 in. \$250 ea  
VSP-123. Features 12" woofer; 5" midrange; 1" tweeter. Power range 10-250 W; sens 92 dB. 14.13 x 27.5 x 11.5 in. \$200 ea  
VSP-102. Features 10" woofer; 1" tweeter. Power range 10-120 W; sens 90 dB. 13 x 27 x 11 in \$150 ea  
VSP-82. Features 8" woofer; 2" tweeter. Power range 10-50 W; sensitivity 89 dB SPL/W/m. 10.63 x 18.75 x 8.38 in. \$80 ea

## VELODYNE ACOUSTICS

### ULD-18 Powered Subwoofer

Floor-standing subwoofer with servo-controlled long-throw 18" driver with 3" peak-to-peak linear travel; 400-W amplifier; electronic crossover set at 85 Hz; level control to match subwoofer output to satellite speaker output; walnut, oak, or black. FR 15-85 Hz  $\pm$  3 dB; max undistorted output of 32 Hz 114 dB; cabinet 23 x 31 x 22 in; amp 17 x 3.5 x 11 in \$2,595  
ULD-15. As ULD-18 but with 15" driver and 17 x 22 x 18 in cabinet, output capability 109 dB at 32 Hz. \$1,795

### ULD-12 Powered Subwoofer

12" servo-controlled down-firing driver; 100-W rms Class B amplifier; passive crossover set at 85 Hz; line- or speaker-level connection; subsonic filter -3 dB at 15 Hz; walnut, oak veneer, or black. FR 18-85 Hz  $\pm$  3 dB; output capability 103 dB; cabinet 16 x 17 x 21 in; controller 8 x 1.5 x 6 in; 32 lb. \$1,195

### Passive Crossover/Bypass

High-pass crossover with bypass capabilities for ULD-18 ULD-15. 7 x 1.5 x 6 in. \$195

## WHARFEDALE

### Precision Series

#### 512.2 4-Way Speaker

4-way speaker with tuned-port enclosure. Features two 8" cone woofers; 4" cone midrange; 3/4" metal-dome tweeter; FR 30-22,000 Hz  $\pm$  3 dB; sens 90 dB; crossovers at 1,000 and 5,000 Hz; nom imp 8 ohms; red mahogany finish. 35 x 11 x 11 in; 53.9 lb \$950/pr

#### 510.2 3-Way Speaker

3-way speaker with tuned-port enclosure. Features 8" cone woofer; 4" cone midrange; 3/4" metal-dome tweeter; FR 35-22,000 Hz  $\pm$  3 dB; sens 90 dB; crossovers at 1,000 and 5,000 Hz; nom imp 4 ohms; Available with red mahogany finish. 24 x 11 x 11 in; 30.8 lb. \$700/pr

### 507.2 2-Way Speaker

2-way speaker with tuned-port enclosure. Features 8" cone woofer; 3/4" metal-dome tweeter; FR 40-22,000 Hz  $\pm$  3 dB; sens 90 dB; crossover at 5,000 Hz; nom imp 8 ohms; red mahogany finish. 19 x 9 x 11 in; 22.5 lb. \$470/pr

### 504.2 2-Way Speaker

2-way speaker with tuned-port enclosure. Features 4" cone woofer; 3/4" metal-dome tweeter; FR 48-22,000 Hz  $\pm$  3 dB; sens 86 dB; crossover at 3,500 Hz; nom imp 8 ohms; red mahogany finish. 11 x 7 x 8 in; 10 lb. \$330/pr

### Delta Series

#### Delta 90 3-Way Speaker

3-way speaker with tuned-port enclosure. Features 10" woofer; 4" cone midrange; 3/4" polyimide, soft-dome tweeter; FR 35-20,000 Hz  $\pm$  3 dB; sens 89 dB; crossovers at 1,000 and 5,000 Hz; nom imp 8 ohms. 27 x 12 x 9 in; 33 lb. \$700/pr

#### Delta 70 2-Way Speaker

2-way speaker with tuned-port enclosure. Features 8" woofer; 3/4" polyimide, soft-dome tweeter; FR 35-20,000 Hz  $\pm$  3 dB; sens 89 dB; crossover at 3,500 Hz; nom imp 8 ohms. 21 x 11 x 8 in; 16.5 lb. \$450/pr

#### Delta 50 2-Way Speaker

2-way speaker with infinite-baffle design. Features 8" woofer; 3/4" polyimide, soft-dome tweeter; FR 45-20,000 Hz  $\pm$  3 dB; sens 89 dB; crossover at 5,000 Hz; nom imp 8 ohms. 18 x 10 x 8 in; 13.2 lb. \$350/pr

#### Delta 30 2-Way Speaker

2-way speaker with tuned-port enclosure. Features 6 1/2" woofer; 3/4" polyimide, soft-dome tweeter; FR 45-20,000 Hz  $\pm$  3 dB; sens 89 dB; crossover at 5,000 Hz; nom imp 8 ohms. 15 x 8 x 6 in; 8.8 lb. \$270/pr

### Diamond Series

#### Ritz Diamond Speaker

Tuned-port design speaker with built-in 20-W amplifier. Features 6.5" woofer; 3/4" polyimide, soft-dome tweeter; FR 40-22,000 Hz  $\pm$  3 dB; sens 90 dB; crossover at 5,000 Hz; imp 8 ohms; black finish. 14 x 9 x 8 in; 17.6 lb. \$450/pr

#### Active Diamond Plus Speaker

Built-in amp with 3rd-generation monolithic devices; on/off switch; volume control; bass-reflex; 4.5" woofer, 0.75" tweeter; 5th-order crossover; choice of 6 finishes. \$350/pr

#### Diamond III Speaker

2-way speaker with 4.5" woofer, 0.75" tweeter, with 5th-order crossover, in choice of 15 finishes. FR 5-20,000 Hz; output 101 dBA DIN; imp 8 ohms; power range 15-100 watts program. \$300/pr

## WOLCOTT AUDIO

### MDF Omnisphere Speaker

Floor-standing bass-reflex speaker uses a single point source of sound with a spherical dispersing surface. A vertically aligned tweeter driving the space between opposing and closely spaced 6" radius sphere and hemisphere forms a radial horn which along with 4 quadrant pyramid-mounted woofer/midrange drivers produces single-point-source omnidirectional dispersion. Features four 6.5" polypropylene-cone, butyl-surround woofers; 28 mm soft-dome tweeter; auto

## PRICES LISTED

are manufacturers' suggested retail prices

(also referred to as list prices);

actual selling prices are set by individual dealers.

All prices are subject to change without notice.

# Back By Popular Demand.

At one time, peregrine falcons nested by the thousands throughout the United States. But with the widespread use of the insecticide DDT in the 1940s and 1950s, the species suffered greatly. In the eastern U.S., the peregrine falcon disappeared entirely.

Now peregrine falcons have made a comeback, thanks to efforts by conservationists.

Since 1975 when recovery programs were established, 752 peregrines have been released in the eastern U.S., and there has been a steady increase in the nesting population.

With wise conservation policies, other once rare species such as the American alligator and the bald eagle have also made comebacks.

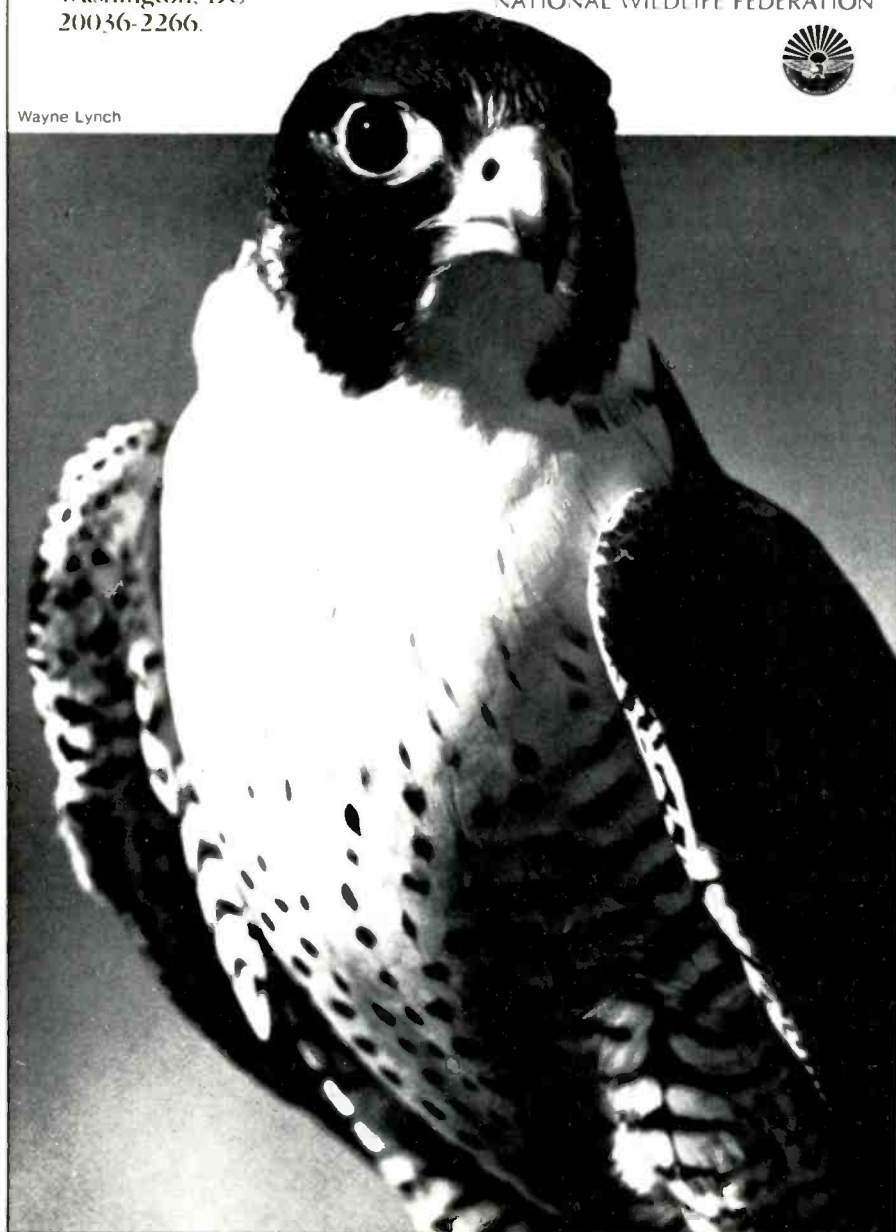
Help save our endangered species. Join the National Wildlife Federation.

1412 16th Street, NW,  
Washington, DC  
20036-2266.

Working for the Nature of Tomorrow.  
NATIONAL WILDLIFE FEDERATION



Wayne Lynch



electronic tweeter protection. FR 30-20,000 Hz  $\pm$  3 dB; power range 20-250 W rms; sens 90 dB SPL/W/m; imp 6 ohms. Unit on casters with floor-loaded ports. Walnut-veneer finish. 21 (at base) x 50 x 21 (at base); 86 lb ..... \$3,750/pr  
MDH. Same as MDF except black/grey high-tech finish ..... \$2,950/pr

## YAMAHA

### Monitor Speakers

#### NS-1000M 3-Way Speaker

Bookshelf speaker with 12" woofer, 3.5" Beryllium-dome midrange; 1.12" tweeter. Features tangential-edge suspension; acoustic-suspension design; acoustic equalizers. Music input power 200 W; sens 90 dB SPL/W/m. 14.75 x 26.62 x 12.89 in; 68.2 lb \$1,498/pr

#### NS-100X 3-Way Speaker

Bookshelf speaker with 9" pure-carbon-fiber cone woofer, 2.36" pure-carbon fiber cone with titanium-carbide dome midrange; 1.19" titanium-carbide dome tweeter. Features field-isolation dual-magnetic system; low-distortion crossover network. Music input power 160 W; sens 91 dB SPL/W/m. 12.25 x 20.88 x 10.88 in; 30.8 lb ..... \$598/pr

#### NS-20M 3-Way Speaker

Bookshelf speaker with 9" pure-spruce cone woofer, 1.88" titanium-carbide semi-dome tweeter; 1.12" titanium-carbide semi-dome supertweeter. Features resonance-free enclosure with 3-way mitered construction. Music input power 160 W; sens 91 dB SPL/W/m. 10.62 x 16 x 10 in; 20.9 lb ..... \$498/pr

#### NS-10M 2-Way Speaker

Bookshelf speaker with 7" singlesheet white-cone woofer, 1.36" soft-dome tweeter, acoustic-suspension enclosure, high-efficiency max-sound-dispersion design. Music input power 100 W; sens 90 dB SPL/W/m. 8.44 x 15 x 7.75 in; 13.2 lb ..... \$398/pr

### FFT Series

#### NS-A10.3 3-Way Speaker

3-way speaker with 10" woofer with mica polypropylene cone and magnesium basket. Features 4.5" midrange driver; 1" linear phase soft dome tweeter; crossover with polypropylene capacitors; FFT computer design ..... \$518/pr

#### NS-A10.2 2-Way Speaker

2-way speaker with 10" woofer with mica polypropylene cone with magnesium basket. Features 1" linear phase soft dome tweeter; crossover with polypropylene capacitors; FFT computer design ..... \$418/pr

#### NS-A8.2 2-Way Speaker

2-way speaker with 8" woofer with mica polypropylene cone and magnesium basket. Features 1" linear phase soft dome tweeter; crossover with polypropylene capacitors; FFT computer design ..... \$338/pr

#### NS-A7.7 2-Way Speaker

2-way speaker with 7" woofer with mica polypropylene cone. Features 3/4" linear phase soft dome tweeter; crossover with polypropylene capacitors; FFT computer design ..... \$218/pr

### Subwoofers

#### NS-W10 Super Woofer

Super woofer system with 8" woofer and built-in 60 W/ch amplifier. Features double-magnet magnetic shielding; 2 section enclosure; FR 80-120 Hz; switchable low-pass filter (18 dB/octave); volume control ..... \$359 ea

#### NS-W2 Super Woofer

Supplements bass response for any speaker system. Especially useful for compact speakers. Features 10" woofer; built-in 40-W amp with volume control; magnetic shielding; easy system connection. 17.81 x 14 x 12.36 in; 24.6 lb ..... \$289 ea



# HEADPHONES



## AKG ACOUSTICS

### K340 Stereo Headphones

Two-way electrostatic/dynamic headphones with fixed-charge electrostatic transducer/dynamic MC transducer and passive diaphragms in each earcup. Connects directly to headphone jack of receiver or amp or across speaker output terminals. FR 15-25,000 Hz; SPL 117 dB at 0.1% THD; nominal imp 400 ohms; max continuous input 200 mW/ch at 117 dB SPL; includes 10-ft 4-conductor cables with 3-conductor .25" stereo phone plug; 13.5 oz ..... \$235

### K280 Circumaural Headphones

Features parabolic-type, dual-transducer design in each earcup; low imp electrical circuit; matches 4-75 ohm outputs. Comes with 9.8 ft cable, standard stereo phone plug. 8.8 oz ..... \$195

### K260 Open Air Headphones

Open air, circumaural stereo headphone with dynamic MC transducers. Matches 4-600 ohm outputs. 10 ft cable; standard stereo plug; 9.2 oz ..... \$170

### K240 DF Studio Monitor Headphones

Designed with a flat frequency response based on European requirements for reference monitor headphones. FR 20-20,000 Hz  $\pm$  2 dB; max input 11 V; Matches 4-600 ohm outputs; max SPL 95 dB at <0.3% THD; With 2.5 m cable and standard stereo phone plug; 8.5 oz ..... \$150

### K240M Free-Field Headphones

Free-field stereo headphones; dynamic MC transducer and 6 passive radiators in each circumaural cup. FR 15-20,000 Hz; imp 600 ohms; max SPL 119 dB at 0.3% THD; supplied with 10-ft 4-conductor cable and .25" phone plug; 7.9 oz ..... \$150

### K145S Electrostatic/Dynamic Headphones

Two-way electrostatic/dynamic semi-open headphones. FR 25-24,000 Hz  $\pm$  3 dB; imp 150 ohms; phone connector; 6 oz, cord 10 ft. long ..... \$110

### K-141M Monitor Headphones

Semi-open stereo dynamic pro monitoring headphones with MC transducers. FR 20-20,000 Hz; max SPL 120 dB at 0.5% THD; imp matches 4-600 ohms; 10-ft 4-conductor cable and standard 3-conductor stereo phone plug; 6.9 oz ..... \$100

### K135 Headphones

Semi-open dynamic headphones. FR 25-18,000 Hz  $\pm$  3 dB; imp 150 ohms; phone connector; 5.6 oz.; cord 10 ft. long ..... \$80

### K130 Stereo Headphones

Supra-aural stereo headphones with dynamic MC transducers. FR 20-20,000 Hz; max SPL 119 dB; imp 200 ohms at 0.7% THD; 10-ft 4-conductor cable with 3-conductor stereo phone plug; 4 oz ..... \$70

### K55 Supra-Aural Headphones

CAD/CAM designed supra-aural stereo headphone with wire headband construction. Matches 4-150 ohm outputs. Comes with 9.8 ft cable; combination standard/mini stereo phone plugs. 3.2 oz ..... \$50  
K21TV. As above with cable-mounted control box for left/right level adjustment, stereo/mono switch, and dual channel mode for SAP broadcasts. .... \$60

### K45 Stereo Headphones

Ultra-lightweight supra-aural stereo headphones with dynamic MC transducers. FR 30-18,000 Hz; max SPL 117 dB at 0.9% THD; matches 4-200 ohm outputs; 10-ft 4-conductor cable; combination standard/mini stereo phone plug; 2.7 oz ..... \$60

### K-2 Mini Headphones

2 MC dynamic transducers; adjustable earcups with washable cushions; matches 4-200 ohm outputs; 9 ft cable; standard/mini stereo phone plug ..... \$45

## ALPHASONIK

### HP-1 Headphones

Walkman-style lightweight headphones with high-efficiency samarium-cobalt magnets. .... \$15

## AUDIO-TECHNICA

### Sound Guard Series

SG750CD. Full-size, closed back headphones with full-range, 40mm, mylar drivers; FR 20-20,000 Hz; .25" phone plug connector; 4.7 oz ..... \$50

SG500CD. Supraaural stereophones with oversize earpieces for improved isolation. FR 20-20,000 Hz; mini-connector with .25" adaptor; 2.0 oz ..... \$40

SG450. Ultra-light weight "turbo" stereophones. Bass-vent design; fully adjustable headband; FR 20-20,000 Hz; mini connector with .25" adaptor; .5 oz ..... \$30

SG430. Micro earbuds with full-range drivers; FR 35-20,000 Hz; mini connector with .25" adaptor and extra earpiece covers; 0.3 oz ..... \$25

SG410. Ultra-light mini headphones with polymer dome drivers; FR 40-20,000 Hz; mini connector with .25" adaptor; 1.0 oz ..... \$15

### AP1400 Open-Back Headphones

Imp 4-16 ohms; FR 20-22,000 Hz; sens 105 dB SPL/W/m; 0.25" phone plug; 10 ft cable; 5.5 oz. \$60

### AP1300 Closed-Back Headphones

Imp 4-16 ohms; FR 20-20,000 Hz; sens 108 dB SPL/W/m; 0.25" phone plug; 10 ft cable; 5.4 oz. \$50

### AP1200 Open-Back Headphones

Imp 4-16 ohms; FR 20-20,000 Hz; sens 90 dB SPL/W/m; 0.25" phone plug; 6 ft cable; 3.3 oz. \$40

## AZDEN

### DSR-DM90 Digital Monitor Headphones

Features over-sized drivers; samarium cobalt magnets; 16-micron polymer and copper-clad aluminum wire; gold-plated mini plug; gold-plated adaptor plug for standard jacks. .... \$100

### DSR-50 Open-Air Headphones

Dynamic lightweight headphones with double-dome 40-mm diaphragm made of 16-micron-thick polymer. Features ultra-lightweight copper-clad aluminum-wire voice coils; gold-plated mini plug; gold plated mini to phono plug adaptor; Digital ready. FR 16-25,000 Hz  $\pm$  3 dB; imp 300 ohms; max power 200 mW; sens 101 dB at 1 mV/ch at 1,000 Hz; 195 g\$80

### DSR-48 CD Compatible Headphone

Super lightweight version of DSR 50. sens 97 dB SPL/W/m. .... \$70

### DSR-18 Headphones

Dynamic headphones. Features imp 60 ohm; sens 103 dB SPL/W/m; max input 200 mW; FR 15-22,000 Hz; 3-meter cord; gold-plated mini plug; gold-plated adaptor plug for standard jacks. .... \$70

### DSR-12 Phone-Plug Headphones

Standard size headphones with extremely lightweight ear units. FR 20-22,000 Hz  $\pm$  3 dB; imp 200 ohms; sens 105 dB SPL with 1-mW input of 1,000 Hz; max power 100 mW; phone connector. .... \$60

### DSR-88 Micro-Dynamic Headphone

In ear design. Mini to .25" gold-plated adaptor. Sens 104 dB W/m; dynamic samarium cobalt speaker unit ..... \$45

### DSR-42 Headphones

Dynamic headphones. Features imp 50 ohms; sens 102 dB SPL/W/m; max input 100 mW; FR 20-20,000 Hz; 2 meter cord; 3.5 mini-plug ..... \$40

## BANG & OLUFSEN

### Form 1 Headphones

Dynamic, semi-open headphones. Features lightweight self-adjusting earpads with tension relief pads to remove pressure from ear. FR 20-20,000 Hz  $\pm$  3 dB; imp 35 ohms; mini & phone connector. .... \$120

Form 2 Headphones. .... \$60

## BEYER DYNAMIC

### DT 48A Standard-Reference Headphones

Audiometric-calibration, standard-reference headphones for acoustic measurements. FR 16-20,000 Hz; max power 200 mW; imp 5 ohms. .... \$320

### DT 48 Headphones

Features removable/replaceable ear cushions and 10-ft coiled cable. FR 16-20,000 Hz  $\pm$  2 dB; imp 200 ohms; sens 105 dB SPL with 1-mW input at 1,000 Hz; max power 96.8 mW; phone plug; 14 oz without cord. .... \$300

### DT 109 Headphones with Microphone

Headphones with dynamic boom microphone for use in live and remote broadcasting. Features rugged modular construction, available with straight or coiled 10-ft cord in numerous mic and headphone impedances, comfortable for extended wearing. FR 30- 20,000 Hz  $\pm$  3 dB; imp 400 ohms; sens 94 dB SPL with 1-mW input at 1,000 Hz; max power 1,000 mW; phone plug; 14.5 oz with cord. .... \$214

### DT 880 Headphones

Semi-open, circumaural headphones with rare-earth magnets. FR 5-25,000 Hz  $\pm$  3 dB; imp 600 ohms; sens 94 dB SPL with 1-mW input of 1,000 Hz; max power 100 mW; phone plug; 10' cord length; 7 oz with cord. .... \$159

DT 880 Studio. Studio version of the DT 880 where extremely wide frequency response and long wearing comfort is required. FR 5-35,000 Hz  $\pm$  3 dB; all other specs same as DT 880 ..... \$219

### DT 990 Dynamic Headphones

Circumaural stereo headphones with very large, low-mass-diaphragm design. Frequency response equalized to diffuse soundfield method. FR 5-35,000 Hz

# HEADPHONES

± 3 dB; imp 600 ohms; max power 100 mW 116 dB SPL; sens 96 dB at 1 mV/ch at 1,000 Hz. Includes 0.251 connector. 8 oz. .... \$199

## DT 108 Headphones with Microphone

Combination single-muff headphone with dynamic boom microphone for live and remote broadcasting. Features rugged modular construction, straight or coiled cord with numerous mic and headphone impedances, designed for extended wearing. FR 30-20,000 Hz ± 3 dB; imp 400 ohms standard; sens 94 dB SPL with 1-mW input of 1,000 Hz; max power 1,000 mW; phone plug; cord length 10' coiled or straight; 10.75 oz with cord. .... \$182

## DT 770 Dynamic Headphones

Circumaural stereo headphones with bass-reflex system to improve accuracy and detail of low frequencies. Closed design isolates ambient noise. Frequency response equalized to diffuse soundfield method. Features very large, low-mass-diaphragm design. FR 15-30,000 Hz ± 3 dB; imp 600 ohms; max power 100 mW 116 dB SPL; sens 96 dB at 1 mV/ch at 1,000 Hz. Includes 0.25" connector. 9 oz. .... \$179

## DT 100 Monitor Headphones

Recording-studio monitor headphones for production and post-production. Features detachable straight or coiled 10' cord; available in numerous impedances, modular construction. FR 30-20,000 Hz ± 3 dB; imp 400 ohms; sens 94 dB SPL with 1-mW input of 1,000 Hz; max power 1,000 mW; phone plug; 12.5 oz with cord. .... \$165

## DT 96A Multi-Purpose Headphones

Headphones used in interpreting installations at conferences and conventions, listening libraries and language labs. Can be used with or without circumaural ear cushions. Features detachable straight or coiled 10-ft cord. Frequency response 30-17,000 Hz ± 3 dB; imp 400 ohms; sens 94 dB SPL with 1-mW input of 1,000 Hz; max power 360 mW; phone plug; 4 oz without cord. .... \$140

## DT 550 Lightweight Headphones

Headphones with semi-open, circumaural design. Lightweight, adjustable suspension, 10-ft coiled cord. FR 10-22,000 Hz ± 3 dB; imp 600 ohms; sens 95 dB SPL with 1-mW input at 1,000 Hz; max power 100 mW; phone plug; 7 oz without cord. .... \$139

## DT 220 Headphones

Headphones with extremely lightweight, closed design; wide-band drivers; soft circumaural ear cushions. FR 20-20,000 Hz ± 3 dB; imp 400 ohms; sens 102 dB SPL with 1-mW input at 1,000 Hz; max power 100 mW; phone plug; 10 oz without cord. .... \$129

## DT 102 Single-Muff Headphones

Headphones for broadcast, recording and disco cueing. Features detachable straight or coiled 10-ft cord; available in numerous impedances; modular construction. FR 30-20,000 Hz ± 3 dB; imp 400 ohms; sens 94 dB max power 1,000 mW; phone plug; 9 oz without cord. .... \$115

## DT 330 MK II Semi-Open Headphones

Circumaural headphone with rare-earth magnets. FR 15-18,000 Hz ± 3 dB; imp 40 ohms; sens 85 dB; max power 100 mW; phone plug; cord length 10 ft; 6.75 ozs without cord. .... \$89

## DT 320 MK II Lightweight Headphones

Headphones with semi-open, circumaural design. FR 20-20,000 Hz ± 3 dB; imp 40 ohms; sens 88 dB SPL with 1-mW input of 1,000 Hz; max power 100 mW; mini-connector; .25" phone plug adapter; 10' cord length; 3.75 oz without cord. .... \$75

## DT 325

Designed as a portable tape or CD player headphone. FR 20-20,000 Hz; imp 40 ohm; mini-connector with .25" phone adaptor. .... \$65

## CALRADELECTRONICS

### 15-115 Lightweight Dynamic Headphones

Transducers designed to eliminate breakup and reduce harmonic distortion and phase differences. FR 20-20,000 Hz ± 3 dB; imp 32 ohms; max power 300 mW; sens 98 dB at 1 mV/ch at 1,000 Hz. Includes stereo 0.25" connector and shielded cable. .... \$165

### 15-139 Stereo Headphones

Super lightweight headphones. FR 30-20,000 Hz; sens 100 dB; matching imp 4-32 ohms; .25" 3-way stereo plug. .... \$39

### 15-136 Stereo Headphones

General purposed dynamic headphones. Features .25" stereo plug; FR 20-18,000 Hz; imp 8 ohms; power 0.5 W/ch. .... \$18

### 15-147 Earbuds

Earbud-type headphones. 4-ft cable, .25" stereo plug. .... \$5

## CARTER-CRAFT

### 40-416 Mini Headphones

Dynamic headphones features rare-earth magnets; adjustable headband; 7-ft ultra-light, tangle-resistant cord; super-soft ear pads. FR 20-30,000 Hz ± 3 dB; imp 38 ohms. Includes mini and 0.25" connectors. 1.25 oz. .... \$36

### 40-414 Mini-Stereo Headphones

Mini-stereo headphones with rotary volume/balance controls; 32 ohms; 36 mm Samarium cobalt magnets an mylar cones; max power 100 mW; adjustable foam earpieces; stereo plug with adapter; 2 oz; black. \$27

### 40-411 Mini Headphones

Features rare-earth magnets; adjustable headband; 5-ft cord; super-soft earpads. FR 30-20,000 Hz ± 3 dB; imp 32 ohms. Includes mini and 0.25" connectors. 1.2 oz. .... \$19

### 40-421 Pick Pocket Headphones

Dynamic, open-air mini headphones with 5-ft cord and foam earpads. Folds up to store in cassette-sized case (included). Mini connector. 10 oz. .... \$11

### 40-417 Mini Headphones

Dynamic, open-air headphones with 5-ft cord and mini connector. FR 20-20,000 Hz ± 3 dB; imp 32 ohms. 1.5 oz. .... \$11

### 40-425 Stereo Earphones

In-ear-type headphones feature 6-ft cord and molded strain reliefs. Imp 8 ohms; max power 300 mW. Includes mini connector. .... \$8

### Replacement Foam Earpads

Replacement earpads for Carter-Craft headphones

40-405. For 40-399 headphones. 2-pair package \$2.45  
40-407. For 40-417 headphones. .... \$1.65/pr  
40-409. For 40-411, 40-416 headphones. .... \$2.15/pr

## DENON

### AH-D6 Open-Air Headphones

Digital-ready headphones with foamed mica flat diaphragm, LC-OFC cables/wiring, and phone connector. FR 15-22,000 Hz ± 3 dB; imp 32 ohms; max power 200 mW; sens 98 dB. .... \$100  
AH-D4. Same as AH-D6 except sens 96 dB. .... \$80

### AH-D3 Headphones

Features high-polymer diaphragm with double-dome construction for improved rigidity and well-damped sound reproduction; LC-OFC voice coil to eliminate distortion; high-energy samarium-cobalt magnet; 1-point cross-support design; OFC cable. .... \$60

### AH-D1 Headphones

Features high-polymer film diaphragm; copper-clad

aluminum wire in voice coil; high-energy samarium-cobalt magnet; 1-point cross-support design; OFC cable. .... \$50

## FOSTEX

### T20 Studio Headphones

Regular-phase system in planar polyester ribbon drivers (diaphragm suspended between opposing-pole magnet assemblies); deposited spiral voice coil; oversize ear pads; adjustable headband; anisotropic ferrite magnets; diaphragm 1.375"; all parts and assemblies secured by screws. Imp 50 ohms; sens 96 dB with 1 mW; max input 200 mW; max output 119 dB with 200 mW; frequency response 20-30,000 Hz; 10.6 oz. .... \$89

## INTERNATIONAL COMPONENTS

### SHP-600 Dynamic Stereo Headphones

For use with CD players and professional recording equipment. Features samarium cobalt magnets; mylar cone diaphragm. .... \$31

### SHP-400V Professional Stereo Headphones

Ultra-slim professional stereo headphones feature individual left/right volume controls; FR 20-21,000 Hz; 40 mm mylarcon drivers; max input power .5 W; brushed black aluminum ear-cups; chrome trim; leather padded cushions; adjustable headband; 6-foot coiled cord with .25-inch stereo phone plug; 8 ounces. .... \$25

### SHP-500 Slim Professional Stereo Headphones

Ultra-slim headphones feature FR 18-22,000 Hz; 40 mm mylarcon drivers; max input power .5 W; 6' coiled cord with .25" phone plug; 7 oz; brushed black aluminum ear-cups with chrome trim; leather padded cushions and adjustable headband. .... \$22

### SHP-300 Cobalt Professional Headphones

Folding professional featherlight mini headphones. Feature samarium cobalt drivers; sens 101 dB/W/m; at 1,000 Hz; FR 20-19,900 Hz; imp 4-32 ohms; 3.5 mm stereo plug; .25" stereo adapter. .... \$15

### SHP-65 Mini Stereo Headphones

Mini, superlight, headphones feature 13 mm mylar speakers; frequency response 20-20,000 Hz; extra earpads. .... \$8

### SHP-55 Bandless Bud Stereophones

Open-air, lightweight, bud earphones feature response 20-20 Hz; imp 32 ohm. .... \$6

## JVC

### HAD990 Headphones

Features large-diameter driver units with samarium cobalt magnets. .... \$150

### HAD770 Headphones

Features high-sensitivity coils made from copper-clad aluminum wire. .... \$120

### HASU7 Headphones

Surround-sound headphones. Features 2 separate drivers in each earcup; front/rear separation; 2 independent plugs; moving coil. .... \$90

### HAD550 Headphones

Designed for flat frequency response. Features 24-karat gold-plated plug. .... \$45

### HACD5 Headphones

Features open-air, super lightweight design; copper-clad aluminum wire voice coils. .... \$40

### HAD330 Headphones

Designed for flat frequency response. Features 24-karat gold-plated plug. .... \$35  
HAD110. As above with gold-plating. .... \$25



# HEADPHONES

## KENWOOD

### KH-500 Stereo Headphones

Open-type dynamic headphones with fold-up headband ..... \$30

### KH-D7 Stereo Headphones

Ultra-lightweight micro headphones with detachable headband ..... 20

## KOSS

### Pro/450 Stereophone

Studio and professional stereophone featuring unique dual element driver and neodymium magnet. FR 10-30,000 Hz. .... \$175

### JCK/200-S Cordless Headphones



Dynamic circumaural cordless headphones equipped with transmitter and AC adaptor. FR 20-20,000 Hz  $\pm$  3 dB. .... \$160

### JCK/100 Cordless Headphones

Infrared cordless design. THD < .25% at 100 dB SPL. 3 oz. .... \$130

### SST/10 Headphones

Designed for digital A/V equipment. Sens 0.36 V rms at 100 dB SPL. .... \$120

### Pro/4AA Stereophone

For home and professional use. Features oversized 1" voice coil. FR 10-22,000 Hz. .... \$99

### Pro/4X Plus Stereo Headphones

Dual-element design combines rare-earth magnet with piezo-electric element. FR 10-40,000 Hz  $\pm$  3 dB. .... \$90

### Pro/4AAA Plus Stereo Headphones

Features extra-large voice coils; oversized diaphragm. FR 10-22,000 Hz  $\pm$  3 dB. .... \$70

### SST/7 Headphones

Dynamic circumaural closed stereophone design. Features notch-type headband adjustment; multipivoting earcups; volume balance control on coiled cord. FR 15-30,000 Hz  $\pm$  3 dB; imp 60 ohms. .... \$70

### SST/6 Headphones

Dynamic open-air headphones with temporal-pad design and volume balance control on coiled cord. FR 15-20,000 Hz  $\pm$  3 dB. .... \$60

### PortaPro Headphones

Supra-aural folding headphones for high-end portable or home use. Features exclusive Comfort Zone multi-pivoting earcup adjustments. Mini plug and .25" phone plug; cord length 5 ft. 2.5 oz w/cord \$50

### HV/1A Headphones

High-velocity headphones with low-mass Decilite drivers for 15-30,000 Hz frequency response  $\pm$  3 dB. Distortion 0.5% at 100 dB SPL; sens 0.9 V rms for 100 dB SPL. Acoustical-sponge ear cushions; extendable headband with self-adjusting pivoting yokes, soft padded vinyl cover; 10-ft cord; 10.1 oz. .... \$50

### Porta/Pro Jr. Headphones

THD < .2% at 100 dB SPL. 1 kHz. .... \$40

### K40LC Plus Headphones

Features dual balance controls; volume control. Rated at 100 ohms and 104 dB SPL W/m input. \$40

### SST/5 Headphones

Dynamic headphones with closed circumaural design. Features adjustable leather headband and foam filled ear cushions. FR 20-20,000 Hz  $\pm$  3 dB. .... \$40

### KSP-II Headphones

Portable, collapsible headphones. Features reticulated foam ear cushion; carrying bag; 2 plugs. .... \$35

### K6X Plus Dynamic Headphones

Lightweight headphones. 100 dB SPL; imp 100 ohms; 6.3 oz. .... \$32

### SST/4 Headphones

FR 20-20,000 Hz  $\pm$  3 dB; imp 35 ohms; sens 100 dB; 6.3 oz. .... \$32

### KSP Sound Partner Headphones

Featherweight phones for pocket stereo use. Folds into compact size to fit into denim tote bag (supplied); comes with accessory adaptors. .... \$25

### KPI/4 Headphones

Hear-through headphones for stereo, VCR or TV. Features self-adjusting slide bars; washable cushions; mini-mono adaptor; spare cushions. FR 18-20,000 Hz  $\pm$  dB; imp 100 ohms; 8-ft cord. .... \$25

### KPI/3 Headphones

Portable headphones. Features volume and balance controls, screw-on adaptor; spare cushions. FR 20-20,000 Hz  $\pm$  3 dB; imp 35 ohms, mini connector, phone connector. .... \$20

### KFF/300 Headphones

Blue/yellow lightweight stereophones with dual balance controls, includes headband cover, spare large cushions, and .25" home adaptor. Sens 100 dB; imp 35 ohms; 3 oz. .... \$20

### KMP/800 Headphones

Sidewinder earbud design with ultra-thin diaphragm, spare cushions, home adaptor; dist. < 1%. .... \$18

### KFF/200 Headphones

Dynamic open-ear headphones with L-type plug; covered headband; extra cushions; spare adaptor; FR 20-20,000 Hz  $\pm$  3 dB; sens 100 dB; 2.5 oz. .... \$16

### KPI/2 Headphones

Features adjustable headband; pivoting earcups; spare cushions. .25" adaptor. Imp 35 ohms; 2.5 oz. \$15

### KMP/600 Headphones

Detachable headband and sidewinder earbud design. Includes home adapter. THD < 1%; 0.75 oz. .... \$15

### KMP/400 Headphones

Protective carrying case. THD < 1%; 0.5 oz. .... \$12

### KPI/1 Headphones

Pivoting earcups ultra lightweight, .25" adaptor. 2 oz. .... \$10

### KFF/100 Headphones

Red/blue/yellow lightweight stereophones. Includes .25" adaptor. Sens 100 dB; imp 35 ohms; 2 oz. .... \$10

## LASER BY SWIRE MAGNETICS

### 1270-9513 Lightweight Headphones

Replacement stereo headphones packed in clear plastic box. .... \$5.99

## LENOXX

### CD-700 Stereo CD Headphones

Feature dynamic Samarium cobalt speaker elements; FR 20-20,000 Hz; .25" adaptor; 2 oz. .... \$20

### 876 Dual-Use Foldable Headphones

Micro in-ear or over-ear headphones. Feature mini-mono plug for TV; .25" plug; FR 100-15,000 Hz; fully adjustable headband; Alnico alloy magnets. .... \$10

### 884 Lightweight Stereo Headphones

Lightweight headphones feature mylar diaphragms; .25" adaptor; fully adjustable headband; FR 100-15,000 Hz. 4' cord; .75 oz. .... \$8

### 883 Stereo Bud Headphones

In-ear, lightweight headphones. Fit all personal portable stereos; dynamic mylar diaphragms, roll-up storage case; .5 oz. .... \$8

## MEMOREX BY MEMTEK

### Sonic-Lite Headphones

### SL-88 Deluxe Stereo Earphones

Dynamic wear-in-ear-type headphones with samarium-cobalt magnets. Features contoured shape; gold-plated connectors; mini-connector and mini-to-0.25" adaptor; FR 20-20,000 Hz  $\pm$  3 dB; imp 16 ohms; max power 30 mW; sens 106 dB at 1 mV/ch at 1,000 Hz. 2 oz. .... \$15

### SL-90 Deluxe Stereo Headphones

Dynamic headphones with samarium-cobalt magnets. Features human-engineered curves and contours; gold-plated connectors; mini-connector and mini-to-0.25" adaptor; FR 20-20,000 Hz  $\pm$  3 dB; imp 32 ohms; max power 100 mW; sens 100 dB at 1 mV/ch at 1,000 Hz. 0.5 oz. .... \$15

### SL-60 Stereo Headphones

Dynamic lightweight headphones with adjustable headband. Features Super-Soft ear cushions; 45" cord; mini plug; mini-to-0.25" adaptor; FR 50-18,000 Hz  $\pm$  3; imp 32 ohms; max power 100 mW; sens 92 dB at 1 mV/ch at 1,000 Hz. 1.75 oz. .... \$10

### SL-40 Stereo Headphones

Dynamic lightweight headphones with adjustable headband. Features flexible pivot earpiece mounts; 45" cord; mini plug; mini-to-0.25" adaptor; FR 50-16,000 Hz  $\pm$  3; imp 32 ohms; max power 50 mW; sens 80 dB at 1 mV/ch at 1,000 Hz. 1.5 oz. .... \$5

## NADY SYSTEMS

### IRH-210 Stereo Headphones

Cordless stereo headphone. Infrared transmission 35 ft range. Separate volume controls for each ear. FR 45-15,000 Hz  $\pm$  3 dB. .... \$100

## NAKAMICHI

### SP-7 Stereo Headphones

Lightweight stereo headphones provide broad, flat frequency response, extended dynamic range, and minimal distortion. Utilizes 25-micron-thick polyester film with 40.5-mm diameter and 18.3-mm voice coil. FR 20-20,000 Hz; imp 45 ohms; max power 100 mW; 3-m cable; standard 0.25" phone plug. .... \$80

## ONKYO

### DP-12X Dynamic Headphones

Supra-aural headphones with 28mm tangential-edge diaphragm for improved deep bass response. Special carpad adjusts to individual ear contours. Mini connector and mini-to-0.25" adaptor included. FR 15-20,000 Hz  $\pm$  3 dB; imp 30 ohms; max power 100 mW; sens 110 dB at 1 mV/ch at 1,000 Hz. 2 oz. .... \$44

### DP-11X Dynamic Headphones

Supra-aural lightweight folding headphones with volume control and stereo/mono selector. Mini connector and mini-to-0.25" adaptor included. Frequency response 20-20,000 Hz  $\pm$  3 dB; impedance 30 ohms; sensitivity 102 dB at 1 mV/ch at 1,000 Hz. 2 oz. .... \$40

# HEADPHONES

## ORA ELECTRONICS

### Studio Spec Brand

#### GHT100 Digital Turbo Earphones

Digital ready for use with portable and home CD players and DAT players. Features gold-plated stereo plug..... \$9

#### GH16RP Rap Earphones

Lightweight in-ear earphones with case. Available in variety of colors..... \$5

#### GH11G Stereo Headphones

Lightweight, compact headphones with gold-plated plug and 27-mm ferrite drivers..... \$3.60

## PANASONIC

#### EAH-X250 Digital Monitor Headphone

2-way dual-drive speakers; acoustically-loaded; 42 mm diameter woofer; neodymium magnet; 32 mm tweeter; double ear pad system; FR 2-30,000 Hz; sens 106 dB/mW..... \$169.95

#### EAH-D8 Lightweight Stereo Headphones

Lightweight stereo headphones compatible with portable CD players. Features mini-jack connection with .25" stereo jack adaptor; FR 15-25,000 Hz; digital-ready..... \$49.95

#### EAH-Z70 Dual-Driver Earphones

With tweeter for highs and woofer for lows; gold-plated plug and gold-plated adaptor for full-size phone jacks. Max input 50 mV (123 dB); imp 28 ohms; sens 106 dB SPL/mW; FR 8-25,000 Hz; 4-ft straight cord..... \$49.95

#### EAH-S35 1.3-Oz Headphones

In black, blue, or red, with adaptor for full-size phone jacks. Digital ready; soft cushion earpads; adjustable headband; frequency response 18-20,000 Hz; 4.9-ft straight cord..... \$24.95

#### EAH-Z31 0.15-Oz Earphones

In black, pink, red, gray, or white; with case. Compatible with portable CD players; FR 16-22,000 Hz; max input power 50mW; imp 16 ohm; 4-ft straight cord..... \$24.95

#### EAH-Z28 0.19-Oz Earphones

In black or pink, with case. Digital-ready; compatible with portable CD players; FR 16-20,000 Hz; Sound pressure level 106 dB/mW; 4-ft straight cord \$15.95

#### EAH-Z9 Folding Headphones

Adjustable headband. Max input 40 mV (117 dB); imp 16 ohms; sens 102 dB SPL/mW; 3.6-ft straight cord; 0.7-oz..... \$14.95

#### EAH-Z6 Stereo Headphone

Inner-ear replacement stereo headphone with storage case. FR 30-20,000 Hz; sens 102 dB/mW at 1,000 Hz; L-shaped plug..... \$12.95

#### EAH-S18 1.3-Oz Headphones

Adjustable headband; soft ear cushions; adaptor for full-size phone jacks. FR 30-20,000 Hz; 4-ft straight cord..... \$10

#### EAH-Z17 0.16-Oz Earphones

In black, pink, or blue, with matching cassette-style case. Max input 50 mV (119 dB); imp 26 ohms; sens 102 dB SPL/mW; 3.3-ft straight cord..... \$10

## PICKERING

#### CD-6 Stereo Headphones

Lightweight headphone with dynamic high velocity element with polyester film diaphragm and Samarium cobalt magnets. FR 20-20,000 Hz; sens 110 dB W/m; 7.5 ft single side entry cord with gold plated stereo plug and mini stereo adaptor..... \$98

#### CD-4 Headphones

For digital or analog playback, lightweight. FR 20-20,000 Hz; sens 110 dB W/m. 7.5 ft cord with standard gold plated plug..... \$66

#### PC2+2

In-ear headphone with dual Samarium Cobalt Magnet drivers (2 per bud); .25" gold-plated adaptor plug and roll-up storage-case. Imp 35 ohms at 1,000 Hz; sens 106 dB at 1 mW at 1,000Hz SPL; FR 10-25,000 Hz; max input 50 mW; 4' cord; weight 12 g... \$60

#### CD-2 Stereo Headphones

Headphone for digital or analog playback. Samarium Cobalt drivers, lightweight. FR 20-20,000 Hz; 7.5 ft cord with standard stereo plug; Y type 4-conductor cord..... \$50

#### Featherfone 108 Headphones

Fits directly in ears; volume control. FR 20-20,000 Hz; sens 105 dB; SPL .25v at 1,000 Hz for each channel..... \$45

#### CD-1 Elliptical Shaped Headphones

Intermediate size elliptical shaped headphone. FR 20-20,000 Hz; sens 105 dB; 7 ft Y cord with gold-plated mini stereo plug and standard stereo adaptor... \$35

#### OA-99P Featherfone Headphones

Ultra-light intra-ear stereo headphones. FR 20-20,000 Hz; sens 105 dB; 5 ft cord with mini stereo plug and mini .25" stereo adaptor..... \$30

#### Featherfone 104 Headphones

Designed for in ear wearing. FR 20-20,000 Hz; sens 98 dB..... \$30  
Featherfone 102. Similar to above except sens is 92 dB..... \$25

#### OA-88 Featherfone Headphones

Headphones with convertible Mini-Featherfone for headband or in-ear wear. High-velocity samarium-cobalt drivers; ultra-lightweight adjustable headband with replaceable foam cushions. FR 20-20,000 Hz; distortion <0.5% at 100 dB SPL; imp 32 ohms at 1,000 Hz; sens 98 dB SPL with 1-mW input at 1,000 Hz; max power 0.05 mW; mini stereo plug; 4' cord; 5 oz without cord..... \$25

#### PC 100

In-Ear Stereo Phone. Features extra pair of ear cushions; .25" gold plated plug; roll-up storage case; imp 35 ohms at 1,000 Hz; sens 100 dB with 1 mW at 1,000 Hz; FR response 20-20,000 Hz; 4' cord; max input 50mW..... \$20

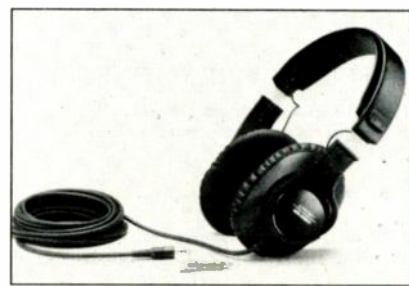
#### OA-66P Stereo Headphones

Open-air headphones with strontium-ferrite magnets. Features ultra-lightweight adjustable headband with replaceable polyurethane foam ear cushions. FR 20-20,000 Hz; distortion <0.5%; imp 32 ohms; sens 92 dB SPL with 1-mW input at 1,000 Hz; mini plug; .25" adaptor plug; 1.1 oz without cord..... \$15

## PIONEER

#### SE-M90 Headphones

Mid-size stereo headphones with 32 ohm nom impedance. Features ceramic titanium diaphragm;



1,000 mW max power input per channel; FR 3-50,000 Hz; 16-ft, 5-inch connection cord; 9 oz..... \$125

#### SE-M70 Headphones

Stereo headphones with 32 ohm nom impedance. Features ceramic titanium diaphragm; 1,000 mW max power input per channel; FR 3-50,000 Hz; 16-ft, 5-inch connection cord; 9 oz..... \$100

#### SE-M50 Headphones

Stereo headphones with 32 ohm nom impedance. Features ceramic titanium diaphragm; 1,000 mW max power input per channel; FR 3-50,000 Hz; 16-ft, 5-inch connection cord; 8.1 oz..... \$70

#### SE-M50D Headphones

Slim-design stereo headphones with 32 ohm nom impedance. Features 1,000 mW max power input per channel; FR 3-50,000 Hz; 8-ft, 2-inch connection cord; 3.2 oz..... \$70

#### SE-205 Headphone

Rounded-cup style stereo headphones with 10 ohm nom impedance. Features 500 mW max power input per channel; FR 20-20,000 Hz; 8-ft, 2-inch connection cord; 1.0 oz..... \$45

#### SE-30D Headphones

Slim-design stereo headphones with 40 ohm nom impedance. Features 100 mW max power input per channel; FR 10-25,000 Hz; 8-ft, 2-inch connection cord; 2.5 oz..... \$35

## QUASAR

#### SV406 Headphones

Deluxe headphones with adaptor plug for use with 0.25" jacks..... \$50

## REALISTIC

#### PRO-60 Acoustic Resistance Headphones

Variable-density ear cushions, 10-ft coiled cord with 0.25" phone plug. THD <0.5%; <8 oz..... \$50

#### LV-10 High-Velocity Stereo Headphones

Vented-back headphones with 2" dynamic elements. THD 0.5%; imp 4-16 ohms; acoustic foam earpieces; soft vinyl-covered headband with self-adjusting yokes; 10-ft coiled cord, 0.25" plug..... \$40

#### Nova-65 Adjustable Headphone

Side-mounted controls for volume and balance; vinyl drivers; foam-filled ear cushions; padded headband; 10-ft cord with 0.25" plug..... \$35

#### Nova-55 Dynamic Headphones

Samarium-cobalt magnets; mini plug. FR 20-20,000 Hz  $\pm$  3 dB; imp 3.2-600 ohms; max power 5 V, 3 oz..... \$30

#### Nova-40 Adjustable Headphones

Stereo headphones with 3.5" dynamic drivers. Imp 4-16 ohms; soft cushion earcups; padded adjustable headband; 10-ft coiled cord, 0.25" plug..... \$25

#### Nova-45 Lightweight Stereo Headphones

0.25" plug adaptor and rare-earth magnets. Frequency response 20-20,000 Hz  $\pm$  10 dB; impedance 32 ohms; max power 40 mW; 6.5-foot cord; 3.3 ounces with cord..... \$25

#### Nova-52 Folding Stereo Headphones

Rare-earth magnets, 6.5-ft cord with 0.12" mini-plug. 3 oz..... \$20

#### Micro-in-Ear Stereo Headphones

Stereo headphones designed to slip into outer ear. 0.6 oz..... \$16

#### Nova-37 Dynamic Headphones

Folding headband; samarium-cobalt magnets; mini plug..... \$16



# HEADPHONES

## Nova-10 Stereo Headphones

2" drivers; adjustable vinyl headband with cushioned earpads. 6.5-ft cord. 0.25" plug ..... \$15  
**Nova-16.** Similar to Nova-10 except has separate Glide Path level controls ..... \$15

## Nova-35 Stereo Headphones

Micro stereo headphones with foam earpads, adjustable headband. 5-ft cord with 0.12" plug. <3 oz \$14

## Nova-33 Lightweight Headphones

Portable headphones. 1.25 oz; foam ear cushions; 0.12" plug; 4-ft cord ..... \$10

## Nova 36 Lightweight Headphones

Fold-up headphones with foam pads; flexible 4-ft, 2-oz cord with 0.12" mini plug ..... \$7

## Nova-34 Lightweight Headphones

Imp 32 ohms; FR 40-20,000 Hz  $\pm$  3 dB; max power 100 mW; mini plug; 4-ft cord; 3 oz with cord ... \$6

## RECOTON

### Stereo 108 Headphones

Lightweight, stereo earbuds. Features cassette-shell container. Available in orange, green, blue, pink, yellow, and red ..... \$10

## RHAPSODY BY ALARON

### RY-251 CD Headphones

Samarium cobalt drivers; compact headphone buds; coil-up storage and carrying case; standard stereo jack and mini-plug adaptor. FR 12-24,000 Hz; sens 108 db/mW; imp 18 ohms at 1 KHz; cord length 4-ft \$15

### RY-252 CD Headphones

Samarium cobalt; adjustable and folding headband; standard stereo plug and mini-plug adaptor. Frequency response 16-22,000 Hz ..... \$15

### RY-245 Stereo Headphones

Headphones for use with portable and home stereos includes 0.25" stereo adaptor plug; 3.5mm mono adaptor plug; 2 extra sets of earpads. .... \$10  
**RY-242.** As above without accessories ..... \$5

## ROSS MARKS

### Caliber Series

**RE-2660CD.** 40mm samarium cobalt drive unit; FR 15-30,000 Hz; sens 110 dB; 6.5" cord; 5.2 oz .. \$130  
**RE-2650CD.** 40mm samarium cobalt drive unit; FR 20-30,000 Hz; sens 110 dB; 6.5" cord; 5.2 oz .. \$100  
**RE-2630CD.** 30mm samarium cobalt drive unit; FR 20-25,000 Hz; sens 105 dB; 6.5" cord; 5.2 oz ... \$80

### New Generation Series

**RE-2580.** Samarium cobalt drive units with Mylar diaphragms. Dual filter bass enhancer; dual axis earcup adjustment; 6.6 ft cord with .25" adaptor; FR 15-22,000 Hz; sens 100 dB; comes with storage case ..... \$65  
**RE-2560CD.** Similar to above except FR 20-22,000 Hz ..... \$60  
**RE-2540.** Same as 2580 except FR 20-20,000 Hz and sens 96 dB. .... \$50  
**Stylers.** Clip on button type earphone with different color earcup color trims; comes with carrying case \$25

### Designer Series

**RE-2395CD.** Samarium cobalt drive units. FR 18-22,000 Hz; sens 110 dB; 6.5 ft cord with .25" adaptor. .... \$45  
**RE-2390.** Same as above with Mylar drive units \$40  
**RE-2360.** Mylar dome drive units 6.5 ft cord; FR 20-20,000 Hz; sens 100 dB; 3.5 oz ..... \$35  
**RE-2330.** Same as above except sens 90 dB and weight 4.4oz ..... \$30

## Micro-Plus Series

**RE-2460CD.** Bass enhancer; FR 20-30,000 Hz; sens 110 dB; adaptor included; 4' cord; 1.4 oz ..... \$55  
**RE-2450CD.** Bass enhancer; FR 20-25,000 Hz; sens 104 dB; adaptor included; 4' cord; 1.4 oz ..... \$50  
**RE-2420.** Bass enhancer; FR 20-20,000 Hz; sens 100 dB; adaptor included; 4' cord; 1.4 oz ..... \$35

## Spectrum Range Series

**RE-2285.** Designed for TV and video use with approx 16 ft. of cable. Supplied with stereo/mono jack, inline l/r channel volume control; stereo/mono switch. FR 20-20,000 Hz; sens 90 dB; 2.6 oz ... \$30  
**RE-2280.** Same as above without mono/stereo switch and volume control ..... \$25  
**RE-2225.** Same as RE-2285 with 6.5 ft. cord. ... \$25  
**RE-2220.** Same as 2280 with 6.5 ft. cord and available in red, yellow, or black. .... \$20

## Micro Series

*Micro series headphones feature ball joint earcups, headband adjustment, foam earpads, letter and Braille channel indication, 4 ft. lead with 3.5 mm right angle jack plug.*

**RE-2170 CD.** Samarium cobalt drive units with gold plated diaphragms. Open back; .25" adaptor included; FR 15-25,000 Hz; sens 104 dB; 40 gm. .... \$30  
**RE-2150.** Samarium cobalt drive units. Open back; 4-100 ohm imp; sens. .25" adaptor included; FR 20-20,000 Hz; sens 106 dB; 40 gm. .... \$20  
**RE-2130.** Mylar dome drive units. Open back; 4-100 ohm imp; sens. .25" adaptor included; FR 20-20,000 Hz; sens 106 dB; 40 gm ..... \$20  
**RE-2120.** Red, yellow or blue ..... \$10

## SANSUI

### SS-155 Dynamic Stereo Headphones

Isolation-free dynamic stereo headphones with around-the-ear design and 1.56" drivers. Imp 100 ohms at 1,000 Hz; FR 20-20,000 Hz; max input power 500 mW; sens 104 dB/mW at 500 Hz; 2-m cord; 4.8 oz without cord ..... \$55

### SS-133 Dynamic Stereo Headphones

Isolation-free, around-the-ear stereo headphones with 1.56" drivers. Imp 60 ohms; FR 20-20,000 Hz; max input power 500 mW; sens 104 dB/mW; 2-m cord; 4.4 oz without cord. .... \$35

### MS-33 Dynamic Stereo Headphones

Lightweight on-the-ear mini dynamic stereo headphones fitted with mini stereo plug, with adaptor for use with home audio equipment. Imp 30 ohms; FR 35-20,000 Hz; max input power 100 mW; sens 97 dB/mW; 2.5-m cord; 1.8 oz without cord. .... \$25

## SENNHEISER

### HD 250 Headphones

Closed cushion headphone with resonance free transmission. FR 16-25,000 Hz ..... \$199

### HD 540 Reference Headphones

Open-air dynamic headphones with integral acoustical silk dampening diaphragm; Sens 94 dB ... \$199

### HDI 2 Wireless Headphones

Stereo headphones with separate transmitter that plugs into headphone jack of any receiver or amp for wireless transmission. Features individual volume controls; rechargeable battery. 2.9 ozs ..... \$169  
**SI 2.** Transmitter for wireless transmission ... \$169

### HD 430 Headphones

Open-air headphones with circumaural ear cushions that rest around the ear. Features replaceable 10-ft stranded-steel cable with phone plug; adjustable headband. FR 16-20,000 Hz  $\pm$  3 dB ..... \$159

## HD 480 Headphones

Open-air design headphones can be used with portables and home equipment. Features neodymium iron magnets; digitally compatible; cushioned headband; 10' steel-stranded cable; .25" phone adaptor; FR 18-22,000 Hz; imp 70 ohm; sens 94 dB; distortion < 1%; all components are user replaceable; 4.8 oz ... \$99

## HD 450 Digitally Compatible Headphones

Headphone can be used for portable as well as home equipment. Features neodymium iron magnets; 10' stranded-steel cable; .25" adapter; FR 20-20,000 Hz; imp 70 ohm; sens 94 dB; distortion < 1%; components are user replaceable; 4.8 oz ..... \$79

## HD 50 Mini Headphones

All user replaceable parts. FR 20-20,000 Hz, 4 ft cable w/mini to phone plug adaptor. .... \$79

## PD 100 Mini Headphones

All user replaceable parts. FR 20-18,000 Hz, 3-ft cable w/ mini to phone plug adaptor ..... \$59

## HD 30 Mini Headphones

Digitally compatible headphones with user replaceable parts including ear cushions and cable. Features .25" stereo phone adaptor; 4' cable; FR 50-17,000 Hz; imp 32 ohm; sens 96 dB; distortion 1.3%; 1.5 oz \$39

## SENTRY INDUSTRIES

### SENTW850 Digital Stereo Headphones

Features 7 ft. shielded cord with 3.5mm right angle stereo plug; 6.3mm heavy duty adaptor for home use; single cord design; 40mm samarium cobalt speakers; FR 20-20,000 Hz; sens 105 dB  $\pm$  3dB; impedance 32 ohms ..... \$26

### SENH0780 Dynamic Stereo Headphones

Features rotary volume/balance controls; 6 ft. shielded cord with 3.5mm right angle stereo plug; 6.3mm stereo adaptor screw type included for home use; 34mm samarium cobalt magnet with mylar cone; FR 30-30,000 Hz; sens 97 dB  $\pm$  3dB; impedance 28 ohms ..... \$19

### SENH0680 Dynamic Stereo Headphones

Features 7 ft. shielded cord with 3.5mm stereo plug; 6.3mm heavy duty adaptor included for home use; single wire connection; 27mm samarium cobalt drivers; FR 18-20,000 Hz; sens 100 dB  $\pm$  3 dB; impedance 32 ohms ..... \$17

### SENH0160 Mini-Stereo Headphones

Feature: 4 ft. shielded cord with 3.5mm stereo plug; 6.3mm adaptor included for home use; replacement earpads. 27mm drivers; FR 20-20,000 Hz; 92 dB;  $\pm$  3 dB; impedance 16 ohms ..... \$13

### TK44 Circumaural Headphones

Electret-condenser headphones with adaptor box. FR 10-22,500 Hz  $\pm$  3 dB; imp 4-16 ohms; sens 100 dB at 1 V/ch at 1,000 Hz. .... \$300

### EP700 Headphones

Open-air, lightweight headphones. Features CCAW voice coils; cloth earpads; 3 m. OFC cord; FR 20-23,000 Hz; 210 g; ..... \$150

### EP500 Headphones

Closed-back headphones. Features CCAW voice coils; samarium cobalt magnets; leather-like earpads; 3 m. OFC cord FR 20-22,000 Hz; 205 g ..... \$125

### EP400 Headphone

Bass response, extended high-frequency response, peak-free coverage of entire audible band headphones. Features high-compliance dome diaphragm; self-supporting voice coil of 40 micron silver/copper wire; mesh-covered foam earpads; 3.5 m. cord with 125" phone plug FR 20-22,000 Hz; 160 g. .... \$100

# HEADPHONES

## EP300 Headphones

Lightweight stereophonic headphones. Featuring high-polymer film element with CCAW voice coils; samarium cobalt magnets; 3 m. cord; FR 20-20,000 Hz; 170 g. .... \$75

## EP100 Headphones

Ultra-lightweight, open-back headphones. Features high-polymer film elements with CCAW voice coils; samarium cobalt magnets; 1.8 m. cord with mini-plug and .25" phone plug adapter; FR 20-20,000 Hz; 48 g. .... \$35

## SONY

### MDR-CD6 Dynamic Headphones

Supra-aural headphones with sealed-ear design; 30mm dome driver unit; spring-loaded soft-touch elliptical earpads; one-sided cord; independent left/right side click-sliders; stereo Unimatch plug; gold-coated double-layer high-molecule film diaphragm and copper-clad aluminum voice coil. Imp 45 ohms at 1,000 Hz; sens 110 dB/mW; rated power 0.1 W; power handling 0.5 W; FR 2-25,000 Hz; cord length 9.8 ft; 3.9 oz ..... \$120  
MDR-M66. As above with less bass response. . . \$95

### MDR-V6 Dynamic Headphones

Closed-ear-type monitor headphones with folding-type compact headband; 40mm driver unit; oval earpads; stereo Unimatch plug; OFC litz cord. Imp 63 ohms; sens 106 dB/mW; rated power 0.3 W; power handling 1 W; frequency response 5-30,000 Hz. Includes soft case ..... \$100

### MDR-V4 Dynamic Headphones

Closed-ear-type monitor headphones with rugged folding headband; 30mm driver unit; one-sided cord; stereo Unimatch plug; OFC litz cord. Imp 45 ohms; sens 104 dB/mW; rated power 0.1 W; power handling capacity 0.5W; frequency response 10-25,000 Hz. Includes case. .... \$80  
MDR-V2. Similar in design to MDR-V4. .... \$50  
MDR-V1. Similar in design to MDR-V4. .... \$30

### MDR-S505 Dynamic Headphones

Large-size open-air-type headphones with volume and tone controls; large-size earpads; 30mm dome drive units; one-sided cord; stereo Unimatch plug. Imp 45 ohms; sens 104 dB/mW; rated power 0.04 W; power handling 0.1 W; FR 15-24,000 Hz; cord length 9-ft, 10 in; 2.1 oz ..... \$70

### MDR-A60 Dynamic Headphones

Vertical in-the-ear-type headphones with Sony's Acoustic Turbo-Circuit for power bass and smooth high frequencies; 16mm sapphire driver units; natural-form bio-tech curved headband design with 3-point folding mechanism; OFC litz wire; stereo Unimatch plug. Imp 18 ohms at 1,000 Hz; sens 108 dB/mW; rated power 0.03 W; power handling 0.05 W; frequency response 10-25,000 Hz; cord length 47.2"; 0.7 oz ..... \$70

### MDR-M33A Dynamic Headphones

Features soft-touch elliptical earpads; one-sided cord; stereo Unimatch plug; 23mm dome driver unit. Imp 25 ohms at 1,000 Hz; sens 100 dB/mW; rated power 0.05 W; power handling 0.1 W; FR 15-14,000 Hz; cord length 9.8 ft; 1.7 oz ..... \$60

### MDR-S303 Dynamic Headphones

Large-size open-air-type headphones with large-size earpads; 30mm dome drive units; one-sided cord; stereo Unimatch plug. Imp 45 ohms; sens 104 dB/mW; rated power 0.04 W; power handling 0.1 W; FR 15-22,000 Hz; cord length 9 ft, 10 in; 1.9 oz. .... \$50

### MDR-E464 Dynamic Headphones

In-the-ear-type headphones with gold-plated L-shaped mini plug; Sony's Acoustic Turbo-Circuit. Imp 13.5 ohms at 1,000 Hz; sens 104 dB/mW; FR 18-22,000 Hz; cord length 39.38"; 0.17 oz. .... \$40

## MDR-S101 Dynamic Headphones

Large-size open-air-type headphones with 23mm dome driver units; large-size earpads; stereo Unimatch plug adaptor. Impedance 32 ohms; sensitivity 98 dB/mW; rated power 0.04 W; power handling 0.1 W; frequency response 20-20,000 Hz; cord length 6.5 ft; 1.9 oz ..... \$30

## STANTON

### SRS-265 Stereo Headphones

Audiophile/professional headphone with deluxe dynamic driver. Features patented independently suspended earcup design for wearer comfort. FR 5-22,000 Hz; sens 96 dB at 1 mW; imp 100 ohms; max input 100 mW; distortion <0.5% at 1,000 Hz; 0.25" plug. 8.6 oz. .... \$135

### SRS-245 Stereo Headphones

Semi-enclosed stereo headphone with deluxe dynamic driver. Features adjustable ratchet-type headband with specially engineered spring suspension; circumaural design. FR 10-22,000 Hz; sens 94 dB at 1 mW; imp 100 ohms; max input 100 mW; distortion <0.5% at 1,000 Hz; 10 ft flat 4-conductor cord with molded 0.25" plug. 8.6 oz. .... \$110

### SRS-225 Stereo Headphones

Semi-enclosed stereo headphone with high-velocity moving-coil driver. Features adjustable ratchet-type headband with specially engineered spring suspension; circumaural design. FR 10-22,000 Hz; sens 94 dB at 1 mW; imp 100 ohms; max input 100 mW; distortion <0.5% at 1,000 Hz; 10 ft dual-conductor cord with 0.25" plug. 8.6 oz. .... \$80

### SRS-215 Stereo Headphones

Semi-enclosed stereo headphone with high-velocity moving-coil driver. Features adjustable ratchet-type headband with specially engineered spring suspension; circumaural design. FR 20-22,000 Hz; sens 98 dB at 1 mW; imp 50 ohms; max input 100 mW; distortion <0.5% at 1,000 Hz; 10 ft dual-conductor cord with mini stereo plug and 0.25" screw on adaptor. 8.6 oz. .... \$60

### ST-PRO Stereo Headphones

Features closed-cup design; high-velocity samarium cobalt driver with mylar diaphragm; adjustable headband; soft vinyl isolation cushions. Sensitivity 100 dB with 0.3V input; maximum power input 250 mW/ch; impedance 100 ohms at 1,000 Hz. Includes 7 ft coil cord with molded strain relief and 0.25" stereo plug ..... \$55

### 35M/11B Dynamic Headphone

Single-cup open-air headphone with headband intended for disco use. Features high-velocity driver; samarium cobalt magnet; 0.25" connector. FR 20-20,000 Hz  $\pm$  3 dB; imp 100 ohms; max power 0.25 W; sens 110 dB at 1 mW/ch at 1,000 Hz. 3.8 oz. .... \$55

### 35M/SR Disco Headphone

Shoulder-rest single-cup headphone designed for DJ use. Features samarium cobalt magnet; soft foam-filled, leather-like ear cushion. FR 20-22,000 Hz; imp 100 ohms; max input 0.25 W; 3.8 oz. .... \$50

### ST-4 Open-Air Headphones

Features high-velocity samarium cobalt driver with mylar diaphragm; adjustable ratchet style headband; soft vinyl isolation cushions. Sensitivity 96 dB with 0.25 V input; max power 250 mW/ch; impedance 60 ohms at 1,000 Hz. Includes 7 ft coil cord with molded strain relief and 0.25" stereo plug ..... \$50

### ST-3 Open-Air Headphones

Dynamic full-range stereo headphones with full-isolation cushions, 2" high-velocity drivers, samarium cobalt magnets, mini to 0.25" adapter. CD ready. frequency response 20-20,000 Hz <3 dB; impedance 32 ohms; max power 100 mW; sensitivity 112 dB at 1 mW/ch at 1,000 Hz. 5 oz. .... \$40

## ST-2 Lightweight Headphones

CD-ready full-range stereo headphones with 1.5" high-velocity drivers, adjustable black plastic headband; 7.5-ft Y-type 4-conductor cord, 0.25" to mini adapter. FR 20-20,000 Hz <3 dB; imp 32 ohms; max power 100 mW; sens 100 dB; 5 oz ..... \$30

## ST-1 Compact Lightweight Headphones

CD-ready home or portable stereo headphones with 1.36" high-velocity drivers; adjustable black headband; 7.5-ft Y-type 4-conductor cord, 0.25" stereo plug; soft black-vinyl-covered foam ear cushions. FR 25-20,000 Hz <3 dB; imp 32 ohms; max power 100 mW; sens 110 dB at 1 mW/ch at 1,000 Hz .... \$25

## STAX

### SR-Lambda/SRM-1 Mk2 Professional Headphones

Panoramic-imaging professional earspeaker system with Class-A direct-drive amp. Connects to pre-out or record outputs. Frequency response 10-20,000 Hz  $\pm$  1 dB; impedance 50,000 ohms; sensitivity 102 dB SPL with 1-mW input of 1,000 Hz; minimum power 0.00005 mW; special connector; cord length 7 ft; 15.1 oz with cord ..... \$1,200  
SRE-16 Extension Cord. Five-meter cord for SR-Lambda. .... \$100

### SR-Lambda/SRD-7 Professional

Panoramic-imaging professional electrostatic earspeaker system with energizing adaptor that connects to amp outputs. Features circumaural design. Frequency response 8-20,000 Hz  $\pm$  1 dB; impedance 8



ohms; sensitivity 102 dB SPL with 1 W input of 1,000 Hz; max power 10,000 mW; cord length 7 ft; 15.1 oz with cord. .... \$750

### SR-Lambda Headphones

Panoramic-imaging electrostatic earspeaker system with energizing adapter. Frequency response 8-35,000 Hz  $\pm$  2 dB; impedance 8 ohms; sensitivity 102 dB SPL with 1-mW input of 1,000 Hz; maximum power 10,000 mW; special connector; cord length 7 ft; 15.1 oz with cord ..... \$500

### SR-Gamma Headphones

Circumambient imaging electrostatic earspeakers system with energizing adapter. FR 10-35,000 Hz; max output 109 dB ..... \$400

### SR-5/NB Headphones

Electrostatic earspeaker system with energizing adapter. FR 25-25,000 Hz  $\pm$  2 dB; imp 8 ohms; sens 97 dB SPL with 1-mW input of 1,000 Hz; max power 10,000 mW; special connector; cord length 7 ft; 13.9 oz with cord ..... \$300

### SR-84 Lambda Jr. Headphones

Electret earspeaker system with energizing adapter. FR 20-20,000 Hz  $\pm$  2 dB; imp 8 ohms; sens 95 dB SPL with 1-mW input of 1,000 Hz; max power 10,000 mW; special connector; cord length 7 ft; 7.5 oz with cord. .... \$230



# HEADPHONES

## SR-34 Headphones

Electret earpeaker headphone system with energizing adapter. Frequency response 25-20,000 Hz  $\pm$  2 dB; impedance 8 ohms; sensitivity 95 dB SPL with 1-mW input of 1,000 Hz; maximum power 10,000 mW; special plug adaptor; coiled cord length 7 ft; 8 oz with cord. . . . . \$160

## Accessories

### SRD-P Adaptor for STAX Pro-Headphones

Portable adaptor for Professional Series Electrostatic headphones. To be connected to preamp outputs or directly to output of portable compact disc player or tape player. Operates on batteries or AC power. variable gain control; frequency response 20-25,000 Hz. . . . . \$300

### SRD-X Adaptor for Stax Headphones.

Portable adaptor that allows Stax electrostatic and electret earpeakers to be connected to a headphone jack. Operates on batteries or AC power adaptor. Features variable gain control. Frequency response 25-25,000 Hz  $\pm$  3 dB; max power 0.03 mW. . . . \$200

### SRE-15/N Extension Cord

5-meter extension cord for all Stax earpeakers. \$40

## TEAC

### HP-402 Stereo Headphones

Deluxe lightweight stereo headphones with soft vinyl foam cushions. Imp 38 ohms; includes 0.25" plug adaptor. . . . . \$35

### HP-302 Mini Stereo Headphones

Samarium-cobalt magnet. Impedance 32 ohms; includes 0.25" plug adaptor and 2 extra earpads. . . \$26

### HP-308 Stereo Headphones

Lightweight headphones with 0.25" plug adaptor and 2 extra earpads. Imp 32 ohms. . . . . \$25

### HP-206 Stereo Headphones

Lightweight headphones with volume control; samarium-cobalt magnet; 0.25" plug adaptor; 2 extra earpads. Imp 32 ohms. . . . . \$22

### HP-202W Stereo Headphones

Lightweight headphones with 0.25" plug adaptor and 2 extra earpads. Imp 32 ohms. White. . . . . \$18

HP-202B. Blue. . . . . \$18

HP-202R. Red. . . . . \$18

### HP-102 Stereo Headphones

Imp 32 ohms. . . . . \$13

## TECHNICS

### EAH-X15 Compact Headphones

Features flat-disc diaphragm; copper-clad voice coils; samarium cobalt magnets; stereo mini-plug; standard stereo headphone adaptor. . . . . \$100

### EAH-T6 Lightweight Headphones

Compact headphones with stereo mini plug and standard stereo headphone plug adapter. FR 20-20,000 Hz  $\pm$  3 dB; imp 40 ohms at 1,000 Hz; max power 100 mW; 1.25 oz. . . . . \$40

## UHER

### W765A Stereo Headphones

Dynamic stereo headphones. FR 16-20,000 Hz; SPL 94 dB; imp 600 ohms; nominal loading capacity 200 mW; distortion 1.0%; automatic strap adjustment; gimballed earcups; 330 g. . . . . \$92

### W 766A Dynamic Headphones

Lightweight (2.2 oz) mono/stereo headphones with 8-ft coiled cord. FR 20-20,000 Hz; imp 200 ohms at 1,000 Hz; lightweight adjustable headband. . . . \$92

## YAMAHA

### YHD-1 Foldable Headphones

Orthodynamic headphones. FR 20-20,000 Hz  $\pm$  3 dB; imp 125 ohms; max power 1,000 mW; 100 dB/mW (109 dB/V); mini connector; phone connector. . \$80

YHD-2. Similar to YHD-1 except with 99 dB/V \$60

YHD-3. Similar to YHD-1 except with 97-dB output. . . . . \$30

The listings are based on data provided by the manufacturers. For more product information, contact an authorized dealer or the manufacturer directly. Manufacturers' addresses and phone numbers are listed in the directory beginning on page 217.

# At Last!

## TOTAL HARMONIC DISTORTION



Cartoons from Stereo Review  
by Charles Rodrigues

**The funniest Rodrigues cartoons from Stereo Review have finally been collected in the audio/video book of the year!**

This handsome, 128-page book — with 118 classic cartoons, a foreword by William Livingstone, and an autobiographical sketch by Rodrigues himself — is only \$7.95. Enjoy your favorites again, catch the gems you missed, and share the laughs with friends!

Available only by mail.

**TO ORDER:** Send check or money order for \$7.95 per copy, plus \$1.50 for postage & handling to:

Perfectbound Press  
Suite 4118J  
1120 Avenue of the Americas  
New York, NY 10036

Type or print mailing address with order. New York residents add 65¢ sales tax per copy. **Outside U.S.:** add \$1.75 postage & handling for first copy and 50¢ for each additional copy (U.S. bank funds only). Allow four to six weeks for delivery, longer outside the U.S.

**Makes a great gift!**

Get two copies for the full stereo effect!

# SIGNAL PROCESSORS



## ACCUPHASE BY MADRIGAL

### G-18 33-Band Graphic Equalizer

Third-octave stereo graphic equalizer with separate power supply for each ch; fully balanced inputs and outputs; 66 individual filter amps, each with discrete components and operating with constant Q throughout their range of 4.3; champagne-gold or black-anodized finish. S/N 110 dB ..... \$3,850

### F15L Electronic Crossover

For stereo bi- or triamplification; plug-in boards select crossover frequencies and slopes; 0.5-dB-per-step level controls from 0 dB to 20.5 dB for passbands. S/N 100 dB; 17.5 x 4.4 x 14.7 in. \$3,500

## ACE AUDIO

### 6000-6 Transient-Perfect Electronic Crossover

Designed for optimum transient performance at any crossover frequency; passes perfect square waves. With 1 frequency module (interchangeable), 6 dB/octave slope, dual level controls. Distortion 0.002%; noise -95 dB; 2.25 x 6 x 4.36 in ..... \$186

### 6500-DSB Electronic Crossover

Designed to operate with any pair of stereo subwoofers to provide extra bass below 100 Hz; twin level controls; Bessel filters provide optimum slope and improved group delay; any frequency available from 40-200 Hz; slope 12 dB/octave, distortion typically 0.002% at 2 V output; includes 1 plug-in frequency module. .... \$167

**6500-SF.** Similar to model 6500-DSB but also contains a built-in subsonic filter (18 dB/octave below 15 Hz) ..... \$192

### 6000 Electronic Crossover

Designed for bi- or tri- (with 2 6000s) amplification. Features plug-in frequency module; built-in power supply; 15 crossover frequencies, 200-10,000 Hz at 12-dB/octave; 2 tweeter level controls. THD and IMD 0.002%; input imp 220 kohms; output imp 100 ohms; hum and noise <90 dB; 6 x 4.36 x 2.25 in. .... \$156

**6000-SF.** Similar to model 6000 but also contains a built-in subsonic filter (18 dB/octave below 15 Hz) ..... \$181

## ADC

### Sound Shaper SS-525X Equalizer

Automatic computerized 12-band system/room EQ with channels separate or together. Features real-time spectrum analyzer; dbx technology; remote control; precision 2-dB settings; switchable 18-dB/octave infrasonic (subsonic) filter; microcomputer with 4 memories for storing user-created EQ curves; switchable FL display; electronic rocker-switch frequency controls; left and right ch attenuation; 2 tape monitors; 2-way dubbing; EQ record; built-in pink-noise generator;  $\pm 13$  dB control range. Includes calibrated electret-condenser mike ..... \$600

### SS-325X Graphic Equalizer

12-band-per-ch equalizer/real-time analyzer with 5 memories for storing user-selected EQ curves. Features microphone; pink-noise generator; stepped EQ controls; narrow-band bass sliders; infrasonic filter; EQ center frequencies at 25, 40, 63, 100, 160, 500,

1,000, 2,000, 4,000, 8,000 and 16,000 Hz. .... \$400

### SS-300SL Equalizer

Slim-line 10-band equalizer/real-time analyzer with microphone and pink-noise test signal for fine-tuning speakers and room response. Features  $\pm 15$ -dB control range; large FL display; lighted EQ sliders; step infrasonic (subsonic) filters; 2 tape monitors; 2-way dubbing; center frequencies at 32, 63, 125, 250, 500, 1,000, 2,000, 4,000, 8,000, and 16,000 Hz. .... \$200

### SS-100SL Equalizer

Slim-line 10-band EQ with  $\pm 15$  dB control range. Features FL RTA display; 18-dB/octave infrasonic (subsonic) filter; EQ record. .... \$140

## APHEX SYSTEMS

### 103A Type C Aural Exciter

Used to enhance record albums, broadcasts, and sound systems, recreates and restores missing harmonics, bandwidth 10-100,000 Hz  $\pm 3$  dB; noise -96 dBV; THD <0.01%; operating level -10 to +4 dBm; max in/out level +21 dBm; with racks (19" wide); 1.75 x 17 x 6 in; 4.5 lb ..... \$299

## ARCAM

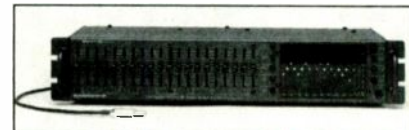
### Arcam Delta Black Box DA Converter

Digital audio interface features motors; servos; displays; microprocessors; shared power supplies; quadruple oversampling digital filter feed; 16-bit twin I/A converters; gold-plated phono sockets. .... \$649

## AUDIO CONTROL

### C-101 Series Two Equalizer/Analyzer

Stereo graphic equalizer features 101-LED spectrum



analyzer display that operates on various levels; shows controllable peak-reading modes (fast/slow); horizontal LED's indicate SPL; switchable calibration levels from 2/dB/LED (analyzes pink noise and mike) to 4 dB/LED (displays wider dynamic range). Center frequencies 32, 60, 120, 480, 960, 1,920, 3,840, 7,680, and 15,500 Hz; boost/cut range max 15 dB; -1 dB subsonic rolloff at 25 Hz, -3 dB rolloff at 20 Hz, -21 dB rolloff at 10 Hz; variable input level sens with calibration; auto mike/line input switching; pink-noise generator; stereo paired equalizer sliders; 18 dB/octave subsonic filter; phase correlation rumble reducer circuit. FR 3-100,000 Hz  $\pm 0.75$  dB; distortion 0.009%; hum and noise -116 dB; 10,000 Hz bandwidth; input/output imp 100k/150 ohms; 6.5 x 19 x 3.5 in. .... \$429

### Richter Scale Series III Equalizer/Analyzer

Designed to enhance bass response; perfect for integrating subwoofer and satellites, smoothing transition from bass to middle frequencies; combines six-band half-octave bass equalizer, warble tone analyzer, programmable Linkwitz-Riley 24-dB/octave electronic crossover; measurement mike; center frequency slide controls at 22.5, 31.5, 45, 63, 90 and 125

Hz.  $\pm 12$  dB; stereo warble tone source adjustable to each center band via rotary knob; -20 to +6 dB lighted meter registering mike input; 18 dB/octave infrasonic filter; source/tape monitoring; equalize program; low-frequency (12 dB/octave at 200 Hz) summing circuit for rumble reduction; frequency point programmable (24 dB/octave) electronic crossover circuit for subwoofer and biamplication modes; mono and inverted mono outputs for bridging; gold jacks. FR 3-100,000 Hz  $\pm 1$  dB; THD 0.005%; input imp 100,000 ohms; output imp 150 ohms, S/N 120 dB. .... \$349

### Ten Plus Series Two Equalizer

Stereo 10-band equalizer with LED indicators in slide controls with warble tone analyzer. Features video sound input and switching; 18 dB/octave infrasonic filter; tape EQ with flashing LED warning indicator; calibrated mike with response curve; sound pressure meter with 0 dB LED. FR 3-100,000 Hz  $\pm 1$  dB; THD 0.07%; S/N 120 dB ..... \$329

### Phase Coupled Activator

Detects and digitally reconstructs fundamental musical frequencies attenuated in the recording processes. Proprietary intelligent circuitry discriminates between sound sources, passing some (like most voices) without adding spurious lows, while restoring missing musical fundamentals. Features in/out switch; subsonic filter 18 dB/oct; programmable electronic crossover; crossover output level; tape monitor; detection ratio sensitivity adjustment; rack mount. FR 5-100,000 Hz  $\pm 3$  dB; S/N -118 dB; THD 0.005%; IMD 0.01%. 2.75 x 17 x 8.5-in; 5 lbs ..... \$259

### Octave Plus Equalizer

Unit combines 10-band octave graphic equalizer, warble tone generator/analyzer, measurement mike. Features center frequencies 31.5, 63, 125, 250, 500, 1k, 2k, 4k, 8k, 17k Hz; max 12 dB boost or cut; stereo warble tone source adjustable to each band center via rotary switch. 2-position range buttons; -20 to +3 dB lighted meter registering mike input; 18 dB/octave infrasonic filter, source/tape monitoring. FR 3-100,000 Hz  $\pm 1$  dB; THD 0.008%; input imp 100,000 ohms; output imp 150 ohms; S/N 116 dB, charcoal faceplate ..... \$239

### Ten Series Two Equalizer

Stereo graphic equalizer with video/sound input and switching. 18 dB/octave infrasonic filter. Features LED's in slide controls; flashing LED to indicate when in tape EQ mode; center frequencies 31.5, 63, 125, 250, 500, 1k, 2k, 4k, 8k, 16k Hz; boost/cut range max 12 dB; FR 3-100,000 Hz  $\pm 1$  dB. .... \$229

### Octave Equalizer

Features paired-octave slider controls, tape record EQ; 18 dB/octave subsonic filter. FR 3-100,000 Hz  $\pm 1$  dB; S/N 118 dB; THD 0.008% ..... \$149

## AUDIO DESIGN ASSOCIATES

### EQ-5 Stereo Equalizer

Two channel, 5-band equalizer with  $\pm 0$  dB range and unity gain controls; Features bypass switch; power switch and indicator; external DC power supply; compact design; standard EIA rack-mountable. Frequencies 37 Hz/109 Hz/675 Hz/1,300 Hz/15,900 Hz; FR 20-20,000 Hz  $\pm 3$  dB; S/N 85 dB THD 0.05% \$695



# SIGNAL PROCESSORS

## AUDIO RESEARCH

**EC-21 Electronic Vacuum-Tube Crossover**  
Low-frequency, passive high-frequency electronic crossover; features individual low-ch level controls; 9-dB max gain; auto warm-up muting; fixed frequency capacitor kits available. Input imp 100k ohms; THD 0.003%; outputs match Audio Research power amps ..... \$995

## AUDIOSOURCE

**EQ-Ten Graphic Equalizer/Spectrum Analyzer**  
12 band per channel EQ with soft touch controls. 32 function wireless remote control; pink noise generator and calibrated electret condenser mic. Self-contained microcomputer programmed to calculate listening room acoustics and adjust the units equalization curve. 4 memory frequency response curves. 2 tape connections; dubbing 1-2 and 2-1 with or without EQ; LED display left and right channel's; 12 LED indicators for spectrum analyzer. FR 5-120,000 Hz  $\pm 1$  dB; THD 0.008% at 1V output; control center points 25, 40, 63, 100, 160, 250, 500 Hz/1k, 2k, 4k, 8k, 16 kHz  $\pm 1$  dB ..... \$400  
**EQ-Nine.** Similar to above without remote control ..... \$300

**SS-One/II Surround Sound Processor**  
Dolby surround sound processor with variable surround-sound effects and built-in 30 W rear-ch amp. Features variable digital time delay; LED audio-level indicators; preamp outputs; synthesis and matrix stereo/surround for non-Dolby-encoded software; 100, 10,000 Hz boost circuits. FR 20-20,000 Hz  $\pm 3$  dB; S/N 85 dB. 2.06 x 16.5 x 9.13 in; 8 lb. .... \$250  
**SS-Two.** Similar to above without remote control ..... \$200

**AV-Four A/V Selector/Surround Sound**  
Synthesized surround sound with built-in 15-W/ch amp, 7-band graphic EQ with spectrum analyzer, 5 video/stereo audio inputs, RF in and out. Features DNR; antenna switching, RF modulator. FR 20-20,000 Hz  $\pm 3$  dB; S/N > 80 dB. .... \$200

**AV-Three A/V Selector/Processor**  
Audio/video fader, enhancer, color and hue control for 5 video/stereo inputs and outputs. Features spectrum analyzer display; RF in and out; RF modulator; DNR; stereo synthesizer; antenna switching. FR 20-20,000 Hz  $\pm 3$  dB; S/N > 80 dB; chroma phase 45%; chroma level 200%; video enhancer 0-9 dB. 2.25 x 16.5 x 10 in; 6.75 lb ..... \$200

**EQ-Eight Graphic Equalizer**  
10-band equalizer with 90-LED spectrum display. Features LED's on slide controls; control range  $\pm 12$  dB; audio inputs plus second set of inputs for video audio or other high-output source; EQ rec switch; EQ defeat; tape monitor switch. FR 5-100,000 Hz  $\pm 1$  dB; S/N -80 dB; THD 0.03%; 2.43 x 16.5 x 7.12 in. .... \$160

## AZDEN

**GX-500 Graphic Equalizer**  
33 point  $\frac{1}{3}$  octave graphic EQ designed for studio or professional applications. Allows input attenuation from 0-20 dB; equalizing range  $\pm 15$  dB; FR 10-100,000 Hz  $\pm 3$  dB; S/N 106 dB; THD .005%; 17 x 3.5 x 9 in; 3.5 kg ..... \$495

**GX-50 Equalizer**  
Black 10-band equalizer with real-time spectrum analyzer; pink-noise generator; mic. FR 10-35,000 Hz  $\pm 3$  dB; S/N 90 dB; THD 0.005%. 17 x 3.5 x 9 in; 10 lb ..... \$300

**GX-45 10-Band Graphic Equalizer**  
10-band/ch EQ with graphic display,  $\pm 15$  dB boost/cut. Designed to handle 2 tape decks for dubbing purposes. FR 10-35,000 Hz  $\pm 3$  dB; S/N 90 dB; THD 0.005%; max output 6 V. 17 x 3.5 x 9 in ..... \$225

## CAMBRIDGE AUDIO

**DAC 2 Digital to Analog Converter**  
Contains all demodulating circuitry, digital filtering and digital to analog conversion system for any compact disc player with a data output. Uses a version of the 16 bit, 16 times oversampling system developed by Cambridge. Inputs for two CD players and two DAT players can be selected by front panel switches. Digital polarity inversion is offered, along with a volume control and a discrete class A headphone amplifier ..... \$1,099

## CARVER

**C-9 Sonic Hologram Generator**  
Designed to restore lifelike space and dimension to music. Sonic Hologram Generator precisely locates instruments and vocals in 3-dimensional space by using otherwise inaudible phase and time information to recreate the original vector sound field. Requires no special source material or additional speakers. Specs and performance identical to Sonic Holography section of C-4000 preamp. 19 x 1.75 x 4.62 in ..... \$249

## CELLO

**The Audio Palette**  
For changing tonal balance in 6 low-Q bands centered at 15, 120, 500, 2k, 5k, 25k Hz; max boost or cut 12 dB; sep input controls for L and R; controls for absolute phase (right 180X, left 180X, 0X, 180X), EQ (out, in, blend), monitor/center (+10 to  $< -40$  dB), and output level (+10 to  $< -40$  dB); Class A discrete circuitry ..... \$8,900

**Master Supply**  
120 V AC ..... \$2,250

## CERWIN-VEGA

**DB-10B Bass Turbocharger**  
One band bass equalizer with subsonic filter below 20 Hz. Features switchable 5/10 dB of bass boost in the range 30-45 Hz; tape monitor connections; effect indicator; THD < 0.025%; rated output 2 V rms; 7 x 14.25 x 2 in; 27 oz ..... \$59

## CROWN INTERNATIONAL

**FFX-2 Electronic Crossover**  
3-way mono crossover features 18 dB/octave high-pass and lowpass; 20-pin barrier block input/output connectors; LED power indicator; all-steel chassis; aluminum front panel; FR 20-20,000 Hz  $\pm 0.1$  dB; THD < 0.05%; carbide black front panel; splatter-coat black chassis and top cover. 19 x 6.5 x 1.75 in; 4.3 lb ..... \$249

## DB SYSTEMS

**DB-3-36 In-Phase Crossover**  
In-phase crossover with power supply. Features high and low outputs always in phase; diode protected inputs; total harmonic distortion < 0.0008%; input imp 90,000 ohms; output imp 1,400 ohms max; rated output 3 V into 10,000 ohms with 3 volts input. Available in 6, 12, 18, and 24 dB per octave slopes ..... \$550

**DB-3 2-Way Active Crossover**  
Fixed frequency active crossovers 6 or 12 dB Gaussian. Features screwdriver adjustable level controls on outputs; separate power supply. FR 10-100,000 Hz  $\pm 3$  dB; S/N 100 dB; THD 0.003%; 2.5 lb; 8.5 x 3.2 x 7 in ..... \$292  
Three-way 18 dB ..... \$539  
Two-way 18 dB ..... \$384  
Three-way 12 dB or 6 dB ..... \$349  
Two-way 100 Hz, 18 dB ..... \$322  
**DB-2A Power Supply** ..... \$85  
**DBP-1 Auxiliary Cable** ..... \$18

**DB-3-24 In-Phase Crossover**  
24-dB/octave crossover minimizes irregularity in radiation pattern through crossover region. High, low-pass outputs always in phase with each other, 6 dB down at crossover frequency. Requires DB-2A power supply or DBP-1 cable. User specifies frequency. Available in 2-way only ..... \$490  
**DB-3-24-100.** Standard version of above, set at 100 Hz, with additional common bass ..... \$405

**DB-5 Tone Control**  
Tone controls with 3 high and 3 low break frequencies; low-frequency boost switch and outputs for sum and difference signals. FR 10-100,000 Hz  $\pm 3$  dB; S/N 96 dB; THD 0.0008%; IMD 0.001%. Requires DB-2A power supply or DBP-1 aux cable if used with existing DB Systems equipment. 8.5 x 3.2 x 7 in; 2.8 lb \$380  
**DB-5AU.** Similar to DB-5 with oak cabinet and gold jacks ..... \$465

**DB-7 Phase Inverter**  
Phase inverter and bridging adaptor with supersonic and subsonic filters (18 dB). FR 10-1000,000 Hz  $\pm 3$  dB; S/N 109 dB; THD 0.003%; IMD 0.003%. Requires DB-2A power supply or DBP-1 aux cable if used with DB Systems equipment. 6.2 x 2.2 x 4.5 in ..... \$195

## DENNESEN ELECTROSTATICS

**Phase Restoration Device**  
Corrects for high-frequency phase delay caused by output filters in digital recorders and CD players. Features process or bypass, phase plus, phase minus. FR 10-100,000 Hz  $\pm 1$  dB; S/N 90 dB; THD 0.01%; 5 lb; 1.75 x 10 x 8-in ..... \$300

## DENON

**DE-70B Dynamic Equalizer**  
12-band stereo graphic equalizer. Can be used to control dynamic expander function for increased dynamic range at selected frequencies with adjustable rate level. Features separate rec out and input selectors. 3-position monitor switch. FR 10-200,000 Hz +0, -2.5 dB; low distortion -0.0003% at 1,000 Hz ..... \$500  
**ACA-36.** Wood side panels for DE-70B ..... \$30

## FISHER

**ASR-875 Surround Sound System**  
Surround system includes CAV-875 surround sound processor/amplifier with wireless remote control and WS-460 surround speakers. Processor features Dolby Surround processing; simulated, hall, and stadium surround effects, switchable 10, 20, 30, 40, or 50 ms delay; 4 sets stereo video inputs; 2 sets stereo video outputs; 1 aux input; 1 tape monitor; 24-function remote control. Each speaker features a 6.5" woofer; 3" tweeter. Power output: 30 W/ch into 8 ohms from 20-20,000 Hz with no more than 0.5% THD. .... \$399

## FOSGATE/AUDIONICS

**DSM 3610 Pro Plus Surround Processor**  
High-separation surround processor with proprietary ProPlus logic circuitry. Features remote control; subwoofer output; side-channel outputs; left front, center front, right front, and left/right surround channels; ultra-low noise variable time delay; bass EQ circuitry; operating modes for Dolby surround and high-separation enhancement of regular stereo music sources; 4 A/V input; tape monitor. FR 2-300,000 Hz  $\pm 1$  dB. 17.25 x 2.75 x 12 in; 12 lb ..... \$1,429  
**DSM 3608.** Similar to 3610 without side channel outputs and A/V switching; includes 40 W/ch surround amplifier ..... \$999  
**DSM 3604.** Same performance characteristics as DSM 3610 less ProPlus circuitry ..... \$849  
**DSM 3606.** Similar to 3608, without variable time delay and infrared remote control ..... \$629  
**DSM 3603.** Similar to 3606 without Pro Plus circuitry ..... \$549

# SIGNAL PROCESSORS

## GOLDSOUND

### 30 Spectrum Analyzer

Rack mount AC 30-band/ch spectrum analyzer with pink-noise generator. Features calibrated microphone; 300 LED's; LED range 27 dB; 25-20,000 Hz bandwidth; 32-128 dB range ..... \$2185

### 30B Spectrum Analyzer

Portable DC battery-operated 30-band/ch spectrum analyzer with pink-noise generator. Features calibrated microphone; 300 LED's; LED range 23 dB; 25-20,000 Hz bandwidth; 32-128 dB range ..... \$599

### GS424 EQ Active Crossover

Rack mount unit with black anodized aluminum front panels and smoked plexiglass security covers. Features 4-ch biamp; fixed bass equalization; subsonic filter; stereo output; variable crossover frequency setting; 12 high-pass, low-pass, and midrange controls; S/N 102 dB; THD 0.02%; input 0.75 V; Linkwitz-Reilly filters ..... \$484

### GS424 Active Crossover

Rack mount unit with black anodized aluminum front panels and smoked plexiglass security covers. Features 4-ch biamp; stereo output; variable crossover frequency setting; 12 high-pass, low-pass, and midrange controls; S/N 102 dB; THD 0.02%; input 0.75 V; Linkwitz-Reilly filters ..... \$424

### 10B Spectrum Analyzer

Portable DC 10-band/ch spectrum analyzer with optional pink-noise generator. Features calibrated microphone; 100 LED's; LED range 23 dB; 32-16,000 Hz bandwidth; 30-123 dB range ..... \$384

### GS224 EQ Active Crossover

Rack mount unit with black anodized aluminum front panels and smoked plexiglass security covers. Features fixed bass equalization; subsonic filter; stereo output; variable crossover frequency setting; 6 high-pass and low-pass controls; S/N 102 dB; THD 0.002%; input level 0.75 V; 24 dB slope; Linkwitz-Reilly filters ..... \$384

### GS224 Active Crossover

Rack mount unit with black anodized aluminum front panels and smoked plexiglass security covers. Features stereo output; variable crossover frequency setting; 6 high-pass and low-pass controls; S/N 102 dB; THD 0.002%; input level 0.75 V; 24 dB slope; Linkwitz-Reilly filters ..... \$324

### M10 Spectrum Analyzer

Portable DC 10-band/ch spectrum analyzer with pink-noise generator. Features calibrated microphone; 70 LED's; LED range 15 dB; 32-16,000 Hz bandwidth; 65-110 dB range ..... \$269

## HARMAN KARDON

### EQ8 Graphic Equalizer

Stereo 10-band graphic equalizer with infrasonic filter continuously variable from 5 to 30 Hz; L and R input controls with overload LED's; tape monitor; tape EQ. Center frequencies 31.5, 63, 125, 250, 500, 1k, 2k, 4k, 8k, 16k Hz; max boost or cut 12 dB\$319

## INTERNATIONAL COMPONENTS

### VSP3600 A/V Surround Processor/Decoder

Audio/video surround processor/decoder with built-in amplifier and DNR. Features surround compatible matrix decoding circuitry with variable time delay; up to 40 dB front-to-rear separation; stereo synthesizer/expander simulates stereo signal from any mono source; separates mono signal into 5 overlapping frequency bands; built-in 10 W surround channel amplifier; surround output jack; master volume control; tape output jacks; input level indicators; gold-plated connectors. .... \$207

**VSP2400 Audio-Video Surround Processor/Decoder**  
Hooks-up to main front channel amp and rear channel amp to provide surround processing. Features 10 msec time delay for front-to-rear separation up to 60 dB; input level LED indicators; gold-plated connectors. .... \$112

### VSS1800 Audio-Video Surround Simulator

Hooks-up to any solid-state amplifier, extracts simulated surround ambience from any stereo source, and requires only an additional pair of rear speakers and speaker wire. Features surround level control; noise eliminator; 6 x 2.5 x 4.75 in ..... \$34

## JRM

### 3PBP/X4 Crossover

Active crossover features 4 frequency bands/ch; 18 dB/octave crossover slopes; independent high-, low-pass frequency selection; plug-in modules frequency setting; stereo/mono/inverted subwoofer outputs; 8 level controls; S/N ratio 110 dB; THD 0.01%; output impedance 100 ohms. .... \$750/pr

### 3PBP/X2 Crossover

Active crossover features 2 frequency bands/ch; 18 dB/octave crossover slopes; independent high-, low-pass frequency selection; plug-in modules frequency setting; stereo/mono/inverted subwoofer outputs; 4 level controls; S/N ratio 110 dB; THD 0.01%; output impedance 100 ohms. .... \$450/pr

### Remote Unit Equalizer

Equalizer with 2 channels features switched tape EQ; 6 bands/ch; unity gain control; 7 rms V output; THD 0.01%; boost/cut range 8 dB; subsonic filter; video inputs ..... \$350

## JVC

### XPA1000BK Digital Acoustics Processor

Digital acoustics processor for accurate recreation of original spatiality. Features ISI for digital signal processing; digital processing using 16-bit quantization and 48 kHz sampling; quadruple-oversampling D/A converter; 64-times oversampling A/D converter; 20 programmed sound field patterns; 20 user-programmable sound field patterns; compensation for ambience of listening room and source program; direct digital inputs and outputs (optical and coaxial); 4/6-channel system configuration selectable; 6-ganged motor-driven remote-controlled volume control; FL display; remote control ..... \$1,200

### SEAM770BK Graphic Equalizer

Electronic 7-band graphic equalizer with infrared wireless remote control. Features 7 frequency equalizer controls per channel; 6 user preset equalizations; 6 programmed preset equalizations; LCD for S.E.A./real-time spectrum analyzer; computer-controlled electronic equalization. Remote control functions include adjusting frequency response; recalling a preset equalization; memory of user-programmed EQ curves; adjusting volume; fade-muting sound; initiating preset scan; selecting transfer, reverse, or flat response ..... \$400

### SUA400 A/V Surround Processor

A/V surround processor. Features wireless remote control with front and rear master volume controls; Dolby surround; hall; simulated surround; left-right calibration and delay-time controls; built-in power amp with 10 W/ch driven into 8 ohms from 40-20,000 Hz with no more than 0.5 THD. Preamp-level output external amp; headphone jack. .... \$305

### SUA30 A/V Surround Processor

Surround sound processor with three surround effects including Dolby Surround, hall surround, and simulated surround. Features built-in amplifier; left/right calibration and delay-time controls; volume control for rear speakers; preamp-level output for external power amplifier; headphone jack for surround

sound headphones. Power output: 10 W/ch into 8 ohms from 40-20,000 Hz with no more than 0.5% THD. .... \$235

### SEA12BK Graphic Equalizer

7-band graphic equalizer features 7 frequency controls per channel with  $\pm 10$  dB control range; S.E.A. recording for equalized tape dubbing; -6 dB input attenuator to prevent overload distortion; transistor inductors for expanded dynamic range. FR 10-50,000 Hz  $\pm 3$  dB; S/N 110 dB; THD 0.03% at 1,000 Hz. 17.19 x 2.44 x 7.86 in; 4.2 lb ..... \$100

## KENWOOD

### GE-1100 12-Band Graphic Equalizer

Basic series graphic equalizer with built-in reverb amp and 12-band spectrum analyzer display. Features independent L/R channel EQ controls;  $\pm 12$  dB EQ range; L/R or L+R display selector; LED illuminated slide controls; time-delay and depth controls; two tape monitors with bidirectional dubbing and monitoring; full-effect recording; EQ normal/reverse selector; -6 dB attenuator; THD 0.003%; S/N 105 dB. 6.44 x 17.31 x 13.75 in; 13.6 lb ..... \$430

### SS-97 A/V Surround Processor

Features Dolby/Theater/Stadium Surround; adjustable delay for Dolby and Theater; built-in 15-W/ch amplifier for rear speaker drive; full function wireless remote control with level and balance adjustment; 2-way video dubbing with tape monitor switch; audio injection; remote-controllable through KA-127; FR 20-20,000 Hz; S/N ratio greater than 80 dB. 3.44 x 16.56 x 10.81 in; 9.9 ..... \$359

### SS-96 Surround Sound Processor

Audio/video surround processor with remote control. Features Dolby Surround processor; theater and stadium effects; time delay control; left/right channel calibration controls; two VCR inputs with dubbing and audio injection; VDP input; tape monitor; video monitor; fluorescent display; 15 W/ch amplifier; preout connection to external amplifier. 3.44 x 16.56 x 10.81 in; 9.9 lb ..... \$350

### SS-75 Surround Sound Processor

Features Dolby Surround processor; theater and stadium effects; time delay control; left/right channel calibration controls; surround volume control; LED level meter and power indicator; built-in 5.5 W/ch amplifier; preout connection to external amplifier. 2.19 x 16.56 x 8.56 in; 6.8 lb ..... \$250

### SS-77 A/V Surround Processor

Features Dolby/Theater/Stadium Surround; adjustable delay for Dolby and Theater; built-in 10-W/ch amplifier; FR 20-20,000 Hz; S/N ratio greater than 80 dB. 2.19 x 16.56 x 8.56 in; 6.8 lb ..... \$249

### GE-87 7-Band Graphic Equalizer

Features independent L/R channel adjustment;  $\pm 12$  dB EQ range; 7-band spectrum analyzer with separate L/R channel fluorescent displays; reverse mode switch; equalizer recording switch; facilities for cassette deck and additional signal processor connection; total harmonic distortion less than 0.006%; frequency response 10-100,000 Hz; S/N ratio 100 dB. 3.44 x 16.56 x 10.5 in; 8.5 lb ..... \$249

### GE-76 9-Band Graphic Equalizer

Features independent L/R channel EQ controls;  $\pm 12$  dB or  $\pm 6$  dB variable range; spectrum analyzer with separate left & right channel displays; reverse mode switch; EQ record switch; line, tape, adaptor input/outputs. 3.5 x 16.56 x 10.38 in; 7.9 lb ..... \$240

### GE-57 12-Band Graphic Equalizer

Features independent L/R channel adjustment;  $\pm 10$  dB EQ range; LED indicators on slide controls; line/tape input/output jacks; equalizer defeat switch; THD less than 0.01%; FR 10-50,000 Hz; S/N ratio 110 dB. 3.44 x 16.56 x 10.25 in; 6 lb ..... \$179



# SIGNAL PROCESSORS

## GE-56 12-Band Graphic Equalizer

Features independent L/R channel EQ controls;  $\pm 10$  dB EQ range; LED display; output level control; line/tape input/output connector; EQ on/off switch. 3.44 x 16.56 x 10.25 in; 6.0 lb. \$160

## GE-47 7-Band Graphic Equalizer

Features independent L/R channel adjustment;  $\pm 10$  dB EQ range; LED indicators on slide controls; line/tape input/output jacks; equalizer defeat switch; THD less than 0.01%; FR 10-35,000 Hz; S/N ratio 96 dB. 3.44 x 16.56 x 8.87 in; 6.6 lb. \$109

## GE-46 7-Band Graphic Equalizer

Features independent L/R channel EQ controls;  $\pm 10$  dB EQ range; LED display; line/tape input/output connectors; EQ on/off switch. \$100

## KINETIC AUDIO

### 3-Point Crossover/Level Control

Monophonic passive crossover/level control system that keeps low frequencies from entering miniature monitor, satellite speaker systems. Features crossover level control and mid-high-pass filter. Crossovers 65, 90, 180 Hz; converts 4- to 8-ohm load. Can be built into Kinetic subwoofers. Mono version \$150

### 4-Point Crossover/Low-Pass Filter

Monophonic passive crossover to be used with subwoofer for filtering out unwanted midrange and high frequencies. Crossover points are 60, 90, 180, and 350 Hz; imp 6-8 ohms. Can be built into Kinetic subwoofers. Mono version; 15 lbs; 4 x 15 x 10 in \$150

## LTSOUND

### CLX-2 Compressor/Limiter/Expander

Features stereo and independent compression or limiting; De-Ess circuit; noise gating; keyed expansion or gating; knee-type compression switchable in or out; external modulation jacks for tremolo and panning effects (requires external oscillator). FR 20-40,000 Hz  $\pm 5$  dB; THD <0.003%; S/N >-90 dB; dynamic range >115 dB; max input +25 dB. 19 x 2 x 7.25 in. \$895

### RV-2 Stereo Reverberation Unit

Reverb unit compatible with any send/receive bus level. Features the sound of two different plates and an acoustic chamber simultaneously and in true stereo; microplate reverb with FR >18,000 Hz; electronically adjustable decay; 90 dB reverb dynamic range. FR 2-40,000 Hz  $\pm 5$  dB, reverb 20-18,500 Hz  $\pm 2$  dB; input imp 47 k unbalanced; S/N >90 dB. 19 x 1.75 x 7.25 in. \$895

### Tape Noise Reduction Units

All noise reduction units are compatible with the dbx noise reduction system and any open-reel tape deck, have a user adjustable level from -10 to +4 dB, have simultaneous encode/decode, are rack-mountable, and are available in hardwired versions. S/N >-90 dBm; FR 20-20,000 Hz  $\pm 75$  dB; THD <0.15% at 1,000 Hz.

NR-8, 8-channel version \$795  
NR-4, 4-channel version \$475  
NR-2, 2-channel version \$275

### PEQ-2 Dual 4-Band Parametric Equalizer

4-band parametric EQ with 2 control frequencies at 25-3,000 Hz, and one each at 85-13,000 and 125-20,000 Hz. Features output capable of driving 600 ohm loads; phono or RCA jacks; optional peak-dip or shelving response on upper and lower bands. FR 20-20,000 Hz  $\pm 5$  dB, 2.2-100,000 Hz  $\pm 1$  dB; S/N >90 dB; slew rate 13 V/ $\mu$ sec. 19 x 3.5 x 7.13 in. \$595

PEQ-1. As above, single channel version, no low frequency rumble filter. \$349

### SL-2 Stereo Limiter

Features 2 channels of both compression and expansion noise gate capability; compressor and expander

work simultaneously; De-Ess circuit; stereo or independent compression available. S/N >90 dB; FR 20-20,000 Hz  $\pm 5$  dB; THD <0.03%; slew rate 13 V/ $\mu$ sec. 19 x 1.75 x 7.25 in. \$395

## FCU-2 Electronic Crossover

Electronic crossover capable of stereo bi-amping and stereo tri-amping. Features phase inversion switches; high slew rate Bi-FET integrated circuits; switchable 1.5 Hz or 30 Hz rumble filter; low crossover point 75-1,100 Hz; mid/high crossover point 75-1,100 Hz in 1x range, and 750-11,000 Hz in 10x range. S/N >90 dB; THD <0.007%; IMD <0.003%; filter slope 12 dB/octave. \$295

## MARANTZ

### CDA-94 Outboard D/A Converter

Used with CD players and other digital components providing digital output. When used with Marantz CD94 eliminates ground loops, contact rectification; accepts 2 wired digital inputs with additional input and output connectors for DAT tape deck; automatically selects correct sampling rate for DAT deck; fixed and variable line outputs, adjustable headphone level and balanced XLR-3 outputs for broadcast and professional applications. \$1,700

### EQ 551 Graphic Equalizer

10-band graphic EQ with separate controls for left and right channels and equalized tape output. Calibrated mic included. FR 20-40,000 Hz  $\pm 3$  dB; THD 0.005%; S/N 80 dB. \$250

### EQ-432 Graphic Equalizer

7-band graphic equalizer with two channels. Features adjustment range  $\pm 10$  dB; LED indicators. \$149

### EQ 130 Graphic Equalizer

10-band graphic equalizer with separate controls for each channel. 2.62 x 16.5 x 8 in; 5.5 lb. \$130

## MARK LEVINSON BY MADRIGAL

### LNC-2 Electronic Crossover

Modular system for frequency division of line-level signals; 4 active filters (2 high pass, 2 low pass); on/off switch for each high- and low-pass filter, internal stereo/mono switch and Camac connectors; hand-brushed and black anodized finish; 18 dB/octave slopes, optional 6-dB or 12-dB slopes for 3-way stereo operation; optional 6-dB/octave slope OCS modules; output level of each FR controlled by 10-turn locking potentiometer on front panel. THD 0.002%; wideband noise <102 dBV unwt'd; accuracy within 5% of specified crossover point; PLS-151 separate power supply load regulation 0.05%; wideband noise output 18  $\mu$ V; LNC-2: 2.25 x 19 x 7.88 in; 12 lb. \$3,500

## MEMOREX BY MEMTEK

### DS-10 Surround Sound Decoder with Amplifier

Reproduces Dolby surround sound. Features 15 W/ch through user's two rear speakers, or can be used as a stand alone audio amp providing 5 W/ch to front and rear speakers; choice between Dolby surround or stereo mode for non-surround encoded stereo programs; input balance control; front/rear balance; flat black finish with gold lettering. \$130

### Infrared Cordless Headphone Adaptor

Infrared transmitter beams any audio source to a special receiver module that can accept all mini-plugged headphones. \$70

## NEC

### PLD-910 Dolby Pro-Logic Surround Sound Decoder

Features L/R independent dual 16-bit digital delay circuit (1.0  $\mu$ sec-94  $\mu$ sec/0.1m step); Dolby Pro-Logic Surround; Creation Surround; 41-key wireless remote control; quadruple-oversampling digital filter; FIP indicator; input/output terminals; noise se-

quencer; THD 0.005%. \$999  
PLD-310. As above with fixed 20  $\mu$ sec delay to rear speakers; double-oversampling digital filter. \$449

## Renaissance Series

### AVD-700E Surround-Sound Processor

Remote-controlled 16-bit digital-delay surround-sound processor with Dolby, hall, matrix, and creation surround circuits. Features inputs for up to 10 video and 5 audio sources; mix-and-match of any video with any audio source; master level control; reset button to set all volume levels to -40 dB without affecting any presets; volume indicators that indicate display levels of front and surround sound channel by channel. FR 10-20,000 Hz  $\pm 5$ , -1 dB; S/N 100 dB. 17 x 3.2 x 13.4 in; 16.1 lb. \$729

### AVX-910 Surround Sound Prologic Switcher

Audio/video switcher with surround sound. Features inputs for CD, tuner, two aux, tape, two A/V, two S-video; outputs for tape and S-video, S-monitor, S-record; digital noise reduction; digital memory \$699

## NIKKO AUDIO

### EQ-30 32-Band Equalizer

32-band mono equalizer with 1/3 octave. \$349

### EQ-950 Graphic Equalizer/Spectrum Analyzer

Features 10 bands/ch; spectrum display of separate or combined L/R equalizer settings; pink noise generator; mic for EQ slope; EQ bypass; source selector; tape in/out. Center frequencies at 31.5, 63, 125, 500, 1,000, 2,000, 4,000, 8,000, 16,000 Hz \$329

### EQ-25 10-Band Equalizer

Graphic equalizer with adjustable frequencies at octave intervals from 31.5-16,000 Hz. Features 10 slider controls per ch. \$299

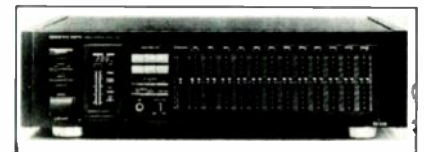
### EQ-540 9-Band Equalizer

Graphic equalizer with 9 bands/ch and built-in graphic indicator. \$200

## ONKYO

### Integra EQ-540 Graphic Equalizer

Dual 12-band graphic equalizer. Features dual 12-band adjustments; warble and center frequency tone generator with fixed and stepped sweep modes;



supplied calibration microphone; high-density information display with frequency readout; EQ range adjustment; master attenuator. \$400

### Integra EQ-35 Graphic Equalizer

12-band graphic equalizer with signal generator. Features individual controls for each channel; LED slide markers; signal generator for all center frequencies except 16 and 32,000 Hz; step or sweep generator mode; level control,  $\pm 12$  dB or  $\pm 6$  dB adjustment range switch; operation mode display; delta power supply. Center frequencies at 16, 32, 64, 125, 500, 1,000, 2,000, 4,000, 8,000, 16,000, and 32,000 Hz. sound and noise reduction 100 dB; THD 0.01%. Available in black. \$320

### EQ-240 Graphic Equalizer

7-band graphic equalizer includes a spectrum analyzer display with level control. Features LED indicator for each band; EQ bypass switch; monitor/tape-source switch. Center frequencies at 64, 160, 400, 1,000, 2,500, 6,300, and 16,000 Hz. S/N 100 dB; THD 0.01% at 20-20,000 Hz, 1.5 V output. 17.12 x 2.81 x 10.12 in; 6.4 lb. \$210

# SIGNAL PROCESSORS

## EQ-140 Graphic Equalizer

Dual 7-band graphic equalizer. Features dual 7-band adjustments; EQ bypass switch; tape monitor switch; LED indicators. . . . . \$150

## PHILIPS

### DAC 960 D/A Converter

D/A converter optically coupled to digital filters; 3 separate power supplies with 3 individual transformers; DAT ready; optical digital input with supplied fiber optic cable; phase inverter control; outputs with 2-stage muting; die-cast chassis; shock-absorbing feet; copper heat sinks; ceramic power capacitors; headphone amplifier with volume control. FR 2-20,000 Hz; amplitude linearity  $\pm 0.01$  dB; S/N > 101 dB; dynamic range > 96 dB; channel separation > 100 dB (1 kHz); THD < 0.0015% (1 kHz); IMD -90 dB (at maximum output level); ultrasonic noise reduction > 60 dB. 3.44 x 16.8 x 13.28 in; 18.7 lb \$949

## PIONEER

### VSP-555 Surround-Sound Processor

Digital surround-sound processor with built-in amplifier and remote control. Features Dolby, stadium, and simulated surround modes; digital delay; A/V switching and connections; 30 W/ch amplifier at 8 ohms from 30-7,000 Hz with < 5% THD. . . . . \$375

### GR-777 10-Band Graphic Equalizer

10-band graphic EQ with boost/cut of  $\pm 10$  dB and remote control. Features center frequencies of 32, 63, 125, 250, 500, 1,000, 2,000, 4,000, 8,000, and 16,000 Hz; 10-band spectrum analyzer; 5 programmable EQ patterns; 5 resident EQ patterns. . . . . \$370

### SP-X707 Surround-Sound Processor

Features 4 surround modes (simulated stereo, stadium, theater, and Dolby); dynamic expansion switch; super-bass switch; wireless remote control. 30 continuous average W/ch. 2.94 x 14.19 x 13.06 in. . . . \$320

### SG-60 Graphic Equalizer

Features 12 bands/ch; independent controls for left and right ch; 2 tape monitors; input level control; black finish. Center frequencies at 16, 32, 64, 125, 250, 500, 1,000, 2,000, 4,000, 8,000, 16,000 and 32,000 Hz; control range  $\pm 12$  dB. 5.19 x 16.56 x 13.81 in. . . . . \$300

### EX-9000 Dynamic Processor

Features dynamic range expansion; noise-reduction effect; FL level indicator; input level control; tape monitor switch; black finish. Center frequencies 50, 500, 5,000 Hz; attack time 4.7 ms; release time 2.7 ms/6.8 ms switchable. 2.38 x 19.56 x 3.38 in. . . \$260

### GR-555 7-Band Graphic Equalizer

7-band graphic EQ with boost/cut of  $\pm 10$  dB. Features center frequencies of 60, 150, 400, 1,000, 2,400, 6,000, and 15,000 Hz; 7-band spectrum analyzer; tape monitor. . . . . \$225

### SR-60 Reverberation Amplifier

Features solid-state BMSD circuit; reverb, echo, and duet effects; visual display; tape monitor; black finish. Reverb time 0-3 seconds (reverb and echo); delay time 100 ms (duet). 3.88 x 16.56 x 13.38 in \$210

### GR-470 Graphic Equalizer

Features 7 bands/ch; slide controls with LED indicators; black finish. Center frequencies at 60, 150, 400, 1,000, 2,400, 6,000, and 15,000 Hz. 2.38 x 16.56 x 8.69 . . . . . \$100

## RCA

### MSP400 Dolby Surround Sound Processor

Dimensia surround sound processor with built-in amplifier and Dimensia remote operation. Features Dolby Surround; simulated surround; theater surround; stadium surround; front/rear channel volume

with mute; loudness; bass boost; sound expansion; line-level center- and rear-channel outputs; tape monitor loop; AC convenience outlet. Power output 30 W/ch from 100-6,000 Hz with no more than 3.0% THD; S/N 60 dBA (surround speakers output). 14.5 x 3 x 13.13 in . . . . . \$349

### MGE260 10-Band Graphic Equalizer

Features Dimensia system design; automatic power-on; lighted slide controls; fluorescent spectrum analyzer display; built-in muting; EQ-bypass switch; power-off bridging; AC convenience outlet. EQ center frequencies: 31.5, 63, 125, 250, 500, 1,000, 2,000, 4,000, 8,000, and 16,000 Hz; adjustment range  $\pm 10$  dB. FR 20-20,000 Hz  $\pm 0.5$  dB; S/N > 100 dBA; THD < 0.005%. 14.63 x 3 x 10.38 in . . . . . \$219

## REALISTIC

### 31-2020 10-Band Equalizer

10-band/ch EQ with spectrum analyzer; IMX spatial expander; tape 1 and 2 in/out. S/N 95 dB. 16.22 x 2.62 x 8.47 in; 6.1 lb. . . . . \$130

### 31-2018 10-Band Equalizer

10-band/ch EQ with IMX spatial expander. S/N 95 dB. 350 x 64 x 146 mm . . . . . \$60

## SAE

### E-101 Parametric Equalizer

Computer direct-line parametric equalizer with digital display. Features 2 bands with 10 memories/band; "pre" tape EQ feature. Bandwidth adjustable from 0.3-3.0 octaves; boost/cut range  $\pm 16$  dB; rated output 2.5 V rms; THD 0.02%; S/N 100 dB; 19 x 12.5 x 3.5 in. . . . . \$650

## SANSUI

### DA-607i Digital Processor

Filter unit containing two 8-times-oversampling digital filters and 1 analog filter. Features digital inputs for coaxial connection of a DAT recorder or player, a CD player, and an optical source; digital output to feed a DAT recorder and optical output; 2 pairs of left and right outputs for an analog amplifier; 2-transformer power supply (1 for analog, 1 for digital); sampling frequency selector (automatic during playback); volume control; headphone jack; battery-operated remote control. frequency response 4-22,000 Hz  $\pm 3$  dB; dynamic range 100 dB; total harmonic distortion (at 1 kHz) 0.002%; sound and noise reduction 115 dB. Black finish; 5.75 x 17.69 x 14.63 in . . . . . \$1,000

### AV-99 Audio/Video Processor

A/V processor accepts signals from any line-out format. Features digital "Video Art" special effects; video enhancer; A/V faders. Terminals for 2 VCR's, 1 camera, 1 audio component, and 2 monitors; dubbing capabilities; audio insert; character generator terminals. Video input sens 1.0 Vp-p/75 ohms. Audio input sens -6 dB/47 kilohms. 16.94 x 4.06 x 11.25 in; 9 lb. . . . . \$700

### VX-99 Video Processor

Similar to AV-99 but without audio processing and video wipe features . . . . . \$600

### DS-77 A/V Surround Sound Processor

Provides amplification for rear channel and center front for audio and video sound. Features super bass synthesizer; peak attacker; simulated stereo; built-in amp delay memories. Decodes specially encoded video tapes. FR 20-20,000 Hz  $\pm 3$  dB; THD 0.09%; delay time theater and hall 20 m/sec; 10 W/ch for rear speaker drive. 16.94 x 2.94 x 9.88 in; 8.6 lb. . . \$400

### RA-1000 Electronic BBD Reverb Amplifier

Features 2 cassette inputs; bi-directional dubbing facilities; twin mike mixing facilities with separate volume controls for duet effect; color graphic display

of reverb effect. Reverb time: echo 0-4.5 sec, dual 30-200 m/sec. THD 0.025%. 16.94 x 4.44 x 10.75 in; 3.7 lb. . . . . \$300

### SE-3000 10-Band Graphic Equalizer

10-band graphic equalizer with real-time spectrum analyzer. Features center frequencies of 32-16,000 Hz spaced at 1-octave intervals; line, tape, and CD/aux inputs. THD 0.008%; S/N 110 dB; EQ range  $\pm 12$  dB. 4.44 x 17 x 8.81 in; 6.8 lb . . . . . \$290

### SE-1000 7-Band Graphic Equalizer

10-band graphic equalizer. Features center frequencies of 60, 150, 400, 1,000, 2,400, 6,000, and 15,000 Hz. THD 0.03%; S/N 75 dB; EQ range  $\pm 12$  dB. 3.13 x 17 x 8.31 in; 4.9 lb. . . . . \$90

## SANYO

### SAV200 Surround-Sound Processor

Features Dolby surround-sound decoder; concert-hall surround mode; variable time delay; stereo-matrix mode; 2-color dimensional surround indicator; surround calibration and balance controls; 20 W/ch power amp . . . . . \$150

## SOUND CONCEPTS

### SSD550 Ambience Restoration and Surround System

Surround sound and ambience restoration system. Matrix decoder derives accurate rear channel from surround sound films and video sources. Takes stereo inputs and provides two front and two rear channel outputs with stereo delay for music or surround decoding plus delay for video. Stereo audio delay system; continuous delay variation 5-100 msec; continuous reverb variation 0-100%; high-frequency rolloff from -3 to +6 dB; front mix level 0-100%; rear level 0-100%; 50- or 100-msec delay range; rear output delay or quad direct; front output direct or delay mix; input front or quad rear; input imp 60k ohms min; output imp 300 ohms max; frequency response 20-10,000 Hz +1, -3 dB with 5 msec delay, zero dB high-frequency rolloff; dynamic range 90 dB min, sound and noise reduction 85 dB min, 90 dB wtd; 1% max distortion at 1,000 Hz, 1 V rms, consisting almost entirely of 2nd harmonic; 3.5 x 15.5 x 9-in. . . . . \$789

### IR2100 Image Restoration System

System expands stereo image beyond confines of space between speakers to reproduce sonic image presented to recording microphones; speaker/listener angle continuously adjustable 20x-100x; continuous adjustment of perimeter to central sound level balance; master volume control; connects in tape loop or between preamp and power amp; sound and noise reduction 80 dB; distortion 0.1% max; handheld with 15-ft remote cable; 6 x 3 x 1.5 in . . . \$289  
**IR2200**, Nonremote version of IR2100 with perimeter to central sound level brilliance control; connects in tape loop; has provisions for tape recorder, capability to record expanded image. S/N 80 dB; distortion 0.1% max; 7" w x 4" d x 2" h. Factory assembled . . . . . \$169  
 Kit (KIR-1). . . . . \$95

### VSP-1 Stereo Synthesizer

Provides interface to stereo system, creates spacious, realistic pseudostereo from mono sources; 10-band harmonically related frequency divisions. S/N 80 dB; distortion 0.2% max; 2 x 7 x 4-in. Factory wired \$159  
 Kit (KVSP-1) . . . . . \$90

### SX-80 Peak Expander/CX Decoder

Adds 20 dB of dynamic range to CX-encoded records and videodiscs, 6-9 dB of upward expansion to nonencoded sources; connects into tape loop, provides recorder connections. Features tri-color LED for 0 VU calibration with standard record supplied. S/N 80 dB; distortion 0.1% max; 2 x 7 x 4-in. Factory assembled . . . . . \$119  
 Kit (KSX-1) . . . . . \$76



# SIGNAL PROCESSORS

## SCOTT

### EQ400 10-Band Graphic Equalizer

10 bands per ch; spectrum analyzer; center frequencies at 31.5, 63, 125, 250, 500, 1k, 2k, 4k, 8k, 16k Hz; max boost or cut 10 dB; delay circuit variable up to 20 msec; 2 tape-monitor circuits; EQ rec switch. 17.4 x 3.72 x 7.6 in. . . . . \$280

## SHURE

### Shure HTS 5200 Generation 2

Dolby Surround audio processor. Acra-Vector Logic Decoder and variable digital time delay. Acoustic Space Generator; output LED monitor; 6 ch output; left, right, center, 2 rear surrounds, plus subwoofer; wireless remote; stereo and mono Surround Synthesis and bypass modes. FR 20-20,000 Hz  $\pm 0.5$  dB (front L/R, center); S/N -90 dBV; THD (front L/R, center) <0.1%, (surround L/R) <0.3%; 16.81 x 2.38 x 15.03 in; 11.10 lb. . . . . \$1,000

### Shure HTS 5000 Surround Sound Processor

Decodes Dolby stereo sound encoded in video discs, video tape, and broadcast TV. Produces simulated surround sound from mono and stereo sources. Provides up to six ch of audio output; left, right, center, two surround channels, and subwoofer. Features Acra-Vector decoder circuitry with variable digital delay; acoustic space generator; remote control; output LED monitor display. FR 20-20,000 Hz  $\pm 0.5$  dB; S/N (front left, front right, center) -90 dBV, -85 dBV (surround L/R); 16.81 x 2.38 x 15.03 in; 9.13 lb. . . . . \$749

### Shure HTS 60RX Remote Extender

Separate infrared sensor eye package for use with HTS 5200 when decoder is installed in concealed location. .9 x 2.4 x 3.8 in. . . . . \$99

## SONY

### SDP-777ES Digital Surround Processor

Combines digital delay circuitry with Dolby HX Pro-Logic decoding. Features 16-bit quantization digital processing; switch-selectable speaker configuration; built-in pink noise generator; matrix delay mode; hall delay mode; stereo simulator delay mode; built-in video switching capability; audio outputs; Remote Commander. . . . . \$850

### SEQ-333ES Graphic Equalizer

Remote-controlled 10-band graphic equalizer that automatically adjusts for room acoustics. Features real-time spectrum analyzer; precision test microphone; 3 inputs; 3 outputs; 8 acoustic memories with 4 pre-programmed curves; automatic or manual equalization; battery backup for programmed settings. Center frequencies 31.5, 63, 125, 250, 500, 1,000, 2,000, 4,000, 8,000, 16,000 Hz; boost/cut range 12 dB (2-dB increments). 17 x 4.25 x 10.88 in. \$600

## SOUNDCRAFTSMEN

### AE2000 Real-Time Analyzer/Equalizer

Stereo 10-band graphic equalizer with Differential/Comparator analyzer/equalizer circuitry, pink-noise generator. Features 100-LED (10-octave) real-time display with adjustable decay rate; mike preamp; input for analysis of 3-head tape deck, other signal processor; Auto-scan mode; brushed-aluminum front panel; hardwood side panels. Center frequencies 32, 64, 125, 250, 500, 1k, 2,000, 4,000, 8,000, 16,000 Hz; boost/cut range  $\pm 15$  dB; display accuracy 0.1 dB; Auto-Scan sweep rate 0.1-10 secs/octave; THD and IMD <0.01% at 2 V; S/N ratio 114 dB at max output; mic preamp input imp 2,000 ohms; FR 20-20,000 Hz  $\pm 0.1$  dB. . . . . \$799

### DC 4415 Third-Octave Equalizer

Third-octave stereo equalizer with 21 controls/channel. Center frequencies 40, 50, 63, 80, 100, 125, 160, 200, 250, 315, 400, 500, 630, 800, 1,000, 1,600, 2,500,

4,000, 6,300, 10,000, 16,000 Hz. Features EQ defeat; infrasonic filter; tape monitor and tape record; Differential/Comparator circuitry for unity gain setting to within 0.1 dB accuracy for highest dynamic range capability. THD and IMD 0.01% at 2 V; S/N 114 dB at 10 V output; input imp 47,000 ohms. Front panel rack mount, brushed aluminum with charcoal finish. . . . . \$699

### DC 2215 Differential/Comparator Equalizer

Stereo 10-band equalizer with Differential/Comparator true-unity-gain circuitry for input to output balancing accuracy to within 0.1 dB. Equalizer filter circuits use precision wire-wound passive-coil inductors for high gain, low noise and distortion. Front-panel controls include tape monitor, LED defeat/EQ defeat and EQ tape record. Total harmonic distortion and intermodulation distortion 0.01% at 2 V; S/N ratio 114 dB at 10 V; boost/cut range  $\pm 15$  dB. Includes frequency spectrum analyzer test record, compute charts, cables. Front panel is rack mount, brushed aluminum with charcoal finish. . . . . \$449

DC 2214. Same as DC 2215 except equalizer filter circuits have op-amp synthesized inductors. THD and IMD <0.01% at 2 V; S/N ratio 106 dB at 10 V; boost/cut range  $\pm 12$  dB. . . . . \$299

## SUMO

### Delilah 2-Way Electronic Crossover

Features front-panel user-selectable frequencies and slopes; 12-dB/octave high-pass slope; 12- or 18-dB/octave switchable low-pass filter with level control; stereo and mono low-pass outputs with built-in bridging circuitry; independent low-/high-pass frequency controls. FR 5-200,000 Hz  $\pm 3$  dB; THD 0.008% max; input imp 50 kilohms; output imp <100 ohms; high- and low-pass frequencies 50, 63, 80, 100, 120 Hz with bypass. 19 x 1.75 x 10 in; 8 lb. . . . . \$549

## SURROUND SOUND

### Surround Sound System 4000

Dolby surround decoder with built in 45 W/ch amplifier and remote control. Features dynamic logic; front to rear balance; volume control for entire A/V system; variable delay; three surround modes; muting; center channel and subwoofer outputs; four audio/video inputs; two video outputs; switchable rear/center channel amplification; auto Dolby B NR; THD front channels .03%, Dolby surround .25%; music surround .355; FR front channels +.5 dB, 18-50,000 Hz; 3.25 x 17 x 13 in; 13.2 lb. . . . . \$600

System 1000 Surround Sound. Similar to above with 20 W/ch amplifier and no remote control; 2.75 x 17 x 8.5-in. . . . . \$250

Cinema 500 Surround Sound. Same as 1000 with two speakers included. . . . . \$299

### Surround System 360 II

45 W/ch surround Dolby decoder. Features continuously variable audio time delay; four way input switching; dubbing capability; balance control for two rear speakers; one touch calibration; auto Dolby B NR; center channel and subwoofer outputs; FR front channels 18-40,000 Hz; THD front channels .05%, surround channel .25%. . . . . \$379

## TEAC

### EQA-30BI, 10-Band/ch Graphic Equalizer

Controls at 32, 63, 125, 250, 500, 1k, 2k, 4k, 8k, 16k; Max boost or cut 15 dB; LED's in sliders; multi-color frequency analyzer with display hold and variable sens and levels; pink-noise generator; can equalize 1 source while monitoring another; dubs source while listening to another; subsonic filter; source/record switching; EQ defeat; includes calibrated omnidirectional electret-condenser mike and 2 RCA cables; optional rack-mount kit. FR 9-120,000 Hz; S/N 104 dB; 12 lb. . . . . \$399

### EQA-20 Graphic Equalizer

10-band/ch graphic EQ with spectrum display. Features max 12-dB cut/boost; rec EQ in/out; pre/post EQ switch; LED's on slide controls; left and right attenuators; tape dubbing; dual-tape recording capability. FR 5-100,000 Hz  $\pm 3$  dB; S/N >80 dB; THD 0.03%; input imp 47,000 ohms; output imp 600 ohms. 2.62 x 16.56 x 6.5-in; 6.6 lb. . . . . \$249

EQA-20BI. As above in black. . . . . \$249

EQA-5. Similar to EQA-20 without spectrum display. Includes single attenuator and LED signal meters. . . . . \$149

### EQA-101IS Graphic Equalizer

Stereo 10-band graphic equalizer with source/tape inputs; 10-band frequency-spectrum display; EQ in/out switch; pre/post EQ switch; line 1/2 input selector switch; silver. . . . . \$199

EQA-101I. As above in black. . . . . \$199

## TECHNICS

### SH-8065 33-Band Graphic Equalizer

With variable-range indicators and selector; tape-monitor switch; parallel L, R sliders. Center frequencies 16, 20, 25, 31.5, 40, 50, 63, 80, 100, 125, 160, 200, 250, 315, 400, 500, 630, 800, 1k, 1.25k, 1.6k, 2k, 2.5k, 3.15k, 4k, 5k, 6.3k, 8k, 10k, 12.5k, 16k, 20k, 25k Hz; boost/cut range  $\pm 3/\pm 12$  dB; S/N 110 dB; gain 0 dB; 16.94 x 13 x 6.03 in; 13.2 lb. . . . . \$725

### SH-8066 Direct-Touch Graphic Equalizer

12-band/ch graphic equalizer sets EQ curves according to line traced on front panel by fingertip. Remembers 8 preset curves; EQ Plus function; auto equalizer compensates for system frequency response and room acoustics. S/N 107 dB; 16.94 x 4.69 x 10.09 in; 8.4 lb. . . . . \$640

### SH-8046 Direct-Touch Graphic Equalizer

7-band graphic EQ with curves set by tracing fingertip across display. Max boost 12 dB, max cut 12 dB. Features FL display of EQ settings or music content by frequency band (spectrum analyzer); 4-preset EQ-curve memory; switch to reverse EQ curve; EQ-curve-lock switch; EQ rec switch; EQ on/off switch; tape monitor (source/tape) switches. Center frequencies at 63, 160, 400, 1,000, 2,500, 6,300, 16,000 Hz. 16.94 x 3.89 x 9.41 in; 6.6 lb. . . . . \$330

### SH-AV44 Powered Surround Sound Processor

Recreates or simulates ambience depending on sound source. Features Dolby surround and Technics A/V surround system to extract reverberant sound information from and add phase shift to non-Dolby sources. Can be used with mono and stereo signals. Music, movie, and manual modes; 4 video inputs. sound and noise reduction 90 dB; 25 w into 8 ohms. . . . . \$295

### SH-AV40 Dolby Surround-Sound Processor

20 W/ch surround-sound processor with both channels driven into 8 ohms from 40-20,000 Hz with less than 0.5% THD. Features FL display; 3 preset effects for A/V surround including theater, hall, and stereoplex; 4 A/V inputs; master volume. . . . . \$250

### SH-8058 Graphic Equalizer

7-band/ch graphic EQ with 3 user-assignable preset memories. Features 3 factory-preset memories; one 7-band spectrum analyzer per channel; tape-output EQ; tape monitor. Center frequencies at 63 Hz, 160 Hz, 400 Hz, 1 kHz, 2.5 kHz, 6.3 kHz, 16 kHz. \$245

### SH-4020K Programmable Timer

Programmable timer for audio/video applications. Features on/off timer; 2 hr sleep function; 24-hour clock display. . . . . \$140

### SH-8038 Graphic Equalizer

7-band/ch graphic EQ with tape-output EQ. Features LED display on tip of each control; reverse curve switch; tape monitor. . . . . \$115

# SIGNAL PROCESSORS

## MAGNEPLANARS®...

Because  
Music Doesn't  
Come In Boxes.



From the \$495 per pair SMGa to the \$1995 MG-IIIa, Magneplanar® speaker technology eliminates the box for a more open, natural sound. And because Magneplanars are bipolar — radiating sonic energy to the rear as well as forward — the three dimensional space the artists occupied while recording is recreated precisely in your home.

**MAGNEPAN**

1645 9th Street  
White Bear Lake, MN 55110

CIRCLE NO. 77 ON READER SERVICE CARD

### THRESHOLD

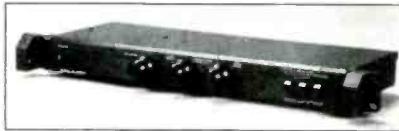
#### Model PCX Electronic Crossover

Dual-ch. dual-passband electronic crossover with 17 user-selectable crossover points between the range of 75 to 1,602 Hz (750 to 16,020 Hz available on special order). Computer modeling and optimization of filter circuit design allows 18 dB/octave slopes that will sum flat within a few % without phase inversion. Separate high- and low-pass filter outputs for each ch may be independently level-adjusted with front panel controls. Bridged-mono operation possible with normal and inverted summed mono low-pass filter outputs. 2 PCX may be used in tandem for tri-amplification. Uses fully discrete, direct-coupled J-FET, MOSFET, and bipolar devices. External power supply in separate chassis. Military-grade, glass-epoxy circuit boards with gold-over-nickel-over-copper plated paths. Gold-plated signal connectors with Teflon insulation. FR low-pass filter DC to cutoff slope initiation, high-pass filter cutoff slope entry to 100,000 Hz; total harmonic distortion no greater than 0.01% from 20-20,000 Hz; input imp 20,000 ohms; output imp 1,500 ohms. nominal. 1.75 x 19 x 6.5 in. .... \$1,500

### VECTOR RESEARCH

#### VQ-125 Graphic Equalizer

10-band graphic EQ with spectrum analyzer and pink-noise generator. Features independent left/right EQ controls; 2 tape monitors; dubbing direction selector;



rec EQ; 2 line inputs; peak-hold display; subsonic filter; input sens switch. Center frequencies: 32, 64, 125, 250, 500, 1,000, 2,000, 4,000, 8,000, 16,000 Hz; boost/cut range  $\pm 12$  dB; S/N 109 dB; THD 0.009%; 16.94 x 4 x 9.44 in; 10.5 lb ..... \$250

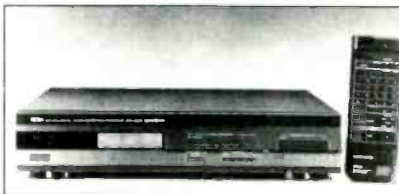
#### VQ-115 Graphic Equalizer

10-band graphic EQ with master level with peak LED indicator. Features independent left/right EQ controls; tape monitor; EQ-defeat switch. Center frequencies: 32, 64, 125, 250, 500, 1,000, 2,000, 4,000, 8,000, 16,000 Hz; boost/cut range  $\pm 12$  dB; S/N 109 dB; THD 0.009%. 16.94 x 4 x 9.44 in; 10.5 lb ..... \$130

### YAMAHA

#### DSP-3000 Digital Sound Field Processor

Features 20 preset acoustic surround modes, including Dolby surround; 35 variations, including many U.S. environments; 20 user-programmable memory modes; 5 variable parameter adjustments per mode or variation; up to 10-channel output capability; hi-bit quadruple-oversampling 18-bit digital filter; twin



hi-bit D/A converters; direct digital input (32 kHz, 44.1 kHz, 48 kHz); full-function remote control; master volume control; on-screen display; adjustable front to rear balance and effect signal level; built-in pink noise generator; effect mute; main mute; titanium finish. .... \$1,899

#### DSP-1 Digital Sound Field Processor

Features 16 preset acoustic surround modes including 6-channel digital Dolby surround; 16 additional preset effect modes; 16 user-programmable memory modes; 16-character LCD; wireless infrared remote control; 5 variable parameter adjustments per mode; digital sound field generator. .... \$999

MVS-1. Master volume controller-selector for use with DSP-1. Features input selector for three inputs and one tape monitor; fader for CD player. .... \$149

#### SR-100 Pro Digital Sound Field Processor

Features Dolby surround pro-logic circuitry; DSP interface for Yamaha DSP models; digital delay control of 20 or 30 msec; input balance control; center mode switch; built-in pink noise generator; remote control; master volume control; tape monitor switch. .... \$599

#### EQ-1100U 10-Band Graphic Equalizer

Graphic equalizer with automatic room EQ. Features independent left and right channel controls;  $\pm 12$  dB EQ range per band; 3 EQ factory-preset memories; 4 EQ user-preset memories; 10-band spectrum analyzer; pink noise generator; electret condenser microphone; EQ recording capability; 18-key wireless remote control. Black; 11 lb. .... \$599

RMA-G60. Rack mount adaptor for EQ-1100U \$18

#### EQ-500U 10-Band Graphic Equalizer

Features independent left and right channel controls;  $\pm 12$  dB EQ range per band; fluorescent spectrum-analyzer display; meter level adjustment; pink-noise generator; electret condenser microphone; EQ recording capability. Black; 11 lb. .... \$399

#### EQ-32 10-Band Graphic Equalizer

Features independent left and right channel controls;  $\pm 12$  dB EQ range per band; fluorescent spectrum-analyzer display; meter level adjustment; EQ recording capability. Black; 11 lb. .... \$299

#### SR-50B Surround Processor/Amplifier

Features 5 surround modes including Dolby surround; adjustable time delay (5-30 ms); bass extension; A-B speaker switching. 25 W/ch min rms into 8 ohms from 20-20,000 Hz with less than 0.01% THD. .... \$349

#### GE-30B 10-Band Graphic Equalizer

10-band independent L/R-channel EQ with side-by-side controls. Features independent L/R output level control; subsonic filter; EQ on/defeat switch; tape monitor with EQ rec. Cut/boost  $\pm 12$  dB; center frequencies at 30, 60, 120, 240, 480, 1,000, 2,000, 4,000, 8,000, 16,000 Hz; S/N 105 dB; FR 10-35,000 Hz  $\pm 0.5$  dB. 17.12 x 4 x 9.12 in; 6.3 lb. .... \$169

#### GE-20B 10-Band Graphic Equalizer

10-band independent L/R-channel EQ with side-by-side controls. Features independent L/R output level control; EQ on/defeat switch; tape monitor with EQ rec. Cut/boost  $\pm 12$  dB; center frequencies at 30, 60, 120, 240, 480, 1,000, 2,000, 4,000, 8,000, 16,000 Hz; S/N 105 dB; FR 10-35,000 Hz  $\pm 0.5$  dB. 17.12 x 4 x 9.12 in; 6.2 lb. .... \$149

## PRICES LISTED

are manufacturers' suggested retail prices  
(also referred to as *list* prices);  
actual selling prices are set by individual dealers.  
All prices are subject to change without notice.



# ACCESSORIES



## ACE AUDIO

### 4100-X-24b Infrasonic/Ultrasonic Filter

Active filter designed to eliminate infrasonic (turntable and record) noise and ultrasonic (RF, high-frequency noise, etc.) interference. Infrasonic rate 24 dB/octave below 20 Hz; ultrasonic section rate 12 dB/octave above 20,000 Hz. Distortion 0.002% at 2 V output ..... \$142

### 4000-X-24 Super Infrasonic Filter

Combined active Bessel and passive filter sections provide low phase shift and an ultra-sharp cutoff (24 dB/octave); removes all infrasonic disturbances; individually hand-calibrated. Distortion 0.002%; response <3 dB at 20 Hz (24 dB/octave) ..... \$132

### 4100 Infrasonic/Ultrasonic Filter

Active filter with infrasonic section rolloff 18 dB/octave below 20 Hz; ultrasonic section rolloff 12 dB/octave beyond 20,000 Hz; IMD 0.002% typical, 20-20,000 Hz ..... \$108

### 4000b Subsonic Filter

Low-frequency filter with 4 rear-panel connectors providing 18 dB/octave rolloff at 20 Hz or below, <3 dB. For use with direct-coupled receivers, amps, and/or subwoofers. IMD 0.01% at 1 V output; input imp 47 kilohms; output imp 150 ohms; min output load 10 kilohms; hum and noise <86 dB; 6 x 4.75 x 2.25 in. .... \$98

### 3900 Ground Limiter

Designed to break up ground-loop faults in connecting cables, thus reducing hum; employs passive circuitry. .... \$21  
Kit ..... \$16

## ACOUSTIC RESEARCH

### AR SRC Stereo Remote Control

Remote control system compatible with all component audio systems features 8-bit custom programmed microprocessor and 15-function hand-held remote module. Operating distance 40 feet nominal. Remote functions include system on/off, volume control, balance control, -20 dB mute, full audio mute, source switching via remote tape monitor, left/right speaker comparison, sleep timer, full memory of control settings with power off. Inputs for main, tape monitor, and EPL (external processor loop) return; outputs for main, tape record, and EPL send; indicators for power on, balance centered, and EPL selected. Attenuation range 0-75 dB plus full-off (>85 dB) in 1.5 dB steps; noise 95 dB below 1 V rms. A-wtd; noise decreases with increasing attenuation; THD <0.01%, 1 Vrms, 20-20,000 Hz; FR 6-60,000 Hz  $\pm$  0.25 dB; phono cables, battery and instructions included ..... \$189.95

## ACOUSTIC SCIENCES

### Tube Trap Acoustical Treatment System

System for reducing room resonance. Corrects low-end phase distortion; damps standing wave room resonances; reduces room resonance Q response; equalizes low-end RT-60 decay constants; each 3" tube contains 15 sabines at 60 Hz; light weight.

Sets  
11" x 6", trap set ..... \$807

T x 6", trap set .....	\$705
T x 5", trap set .....	\$652
9" x 6", trap set .....	\$589
16" x 5", 1/4 round set .....	\$388
11" x 5", 1/2 round set .....	\$353
9" x 5", 1/2 round set .....	\$271

### Components

16" x 3", Supertrap .....	\$383
16" x 3", trap .....	\$300
16" x 2", trap .....	\$269
11" x 3", trap .....	\$186
11" x 2", trap .....	\$159
9" x 3", trap .....	\$134
9" x 2", trap .....	\$110
16" x 5", 1/4 round .....	\$197
16" x 3", 1/2 round .....	\$195
11" x 5", 1/2 round .....	\$164
9" x 5", 1/2 round .....	\$124

## ADCOM

### GFS-3 Speaker Selector

Handles up to 3 pairs of speakers with built-in load protection for low-imp loads; headphone output; Twist'n'Lock speaker connectors for heavy-gauge speaker wire. Can be used with amps rated up to 200 W/ch. 2.75 x 7 x 5.25-in ..... \$99.95

GFS-6. Similar to above except handles up to 6 pairs of speakers ..... \$159.95

GFS-6W. As GFS-6 with white front panel ..... \$209.95

GFS-6S. With silver front panel ..... \$209.95

RM-3. Optional rack-mount adaptors for GFS-6. .... \$20/pr

RM-3W. RM-3 in white ..... \$25/pr

RM-3S. RM-3 in silver ..... \$25/pr

GFS-4. Gold plated, brass 5 way binding posts, glass fiber epoxy printed circuit board. Oxygen free copper internal jumpers made with #12 AWG stranded cable. Handles 4 pair of speakers; black ..... \$150  
GFS-4. White ..... \$200

### SLC-505 Straight Line Controller

A/V switch box with inputs for 2 VCR's (with dubbing capability), AUX, tape, DAT, tuner, and CD. Level and balance switch; single master circuit board with copper plating on both sides; Ground screw; black ..... \$160  
SLC-505. White ..... \$290

### ACE-515 Line Enhancer

7 AC inputs, 2 switched 3 prong 1500 W max, 1 unswitched 3 prong 300 W max, 4 unswitched 2 prong 300 W max. Protection reset circuitry (15 amp circuit breaker), LED indicators for "delay on/off". Output amplifiers 10 amps. max per pole continuous, accessories 2.5 amps. max continuous; 3 x 17 x 5.94; 6 lb; black ..... \$180  
ACE-515. White ..... \$230

## a/d/s/

### B3 Storage Module

Stackable wooden cube divided into 3 sections by 2 vertical dividers. Tambour door in front slides up into top of unit. Each section holds about 33 LP's (about 99 total per unit). With optional 12-slot trays, each section holds 24 compact discs (72 total per unit) or 36 cassettes (108 total per unit). Single unit can

hold 33 LP's in 1 section, 24 CD's in second, and 36 cassettes in third. Length and width matches measurements of Atelier components. Black or white ..... \$249.00  
B4. Similar to B3 except open front with adjustable shelf. .... \$169.00

## ALLSOP

7500 DAI Cleaning System. Wet/dry system, cleans heads and tape path, deluxe storage case ... \$29.95

71200 Deluxe Cassette Deck Cleaner. Wet system, cleans heads, capstan, and pinch roller. Auto reverse, refill kit included; deluxe carrying pouch ... \$15.95

6500 Camcorder Cleaner. 8mm camcorder cleaner with wet/dry system, patented ribbon ..... \$14.95

6900. Same as above for VHS-C camcorders \$14.95

6100 VHS Cleaner. Cleans heads, tape path, and tape drive; wet/dry system; patented ribbon .... \$14.95

50000 CD Cleaner. Radial cleaning, uses lint free cotton pads and special solution, gear driven disc rotation ..... \$9.95

55000 Orbitrac Record Cleaning. System rotates from records center hole/spindle, uses lint free cotton pads and special solution. .... \$9.95

60000 VHS Cleaner. Cleans heads, tape path, and tape drive; wet/dry system patented ribbon .. \$9.95

71300 Cassette Deck Cleaner. Wet system. Cleans heads, capstan, and pinch roller; autoreverse; refillable ..... \$7.95

70000 Cassette Deck Cleaner. Wet system. Cleans heads, capstan, and pinch roller; autoreverse. \$5.95

## AUDIO DESIGN ASSOCIATES

### System Basics

Switching systems for multiroom applications. Includes remote controls and enables system use from several areas.

System 88. Covers 8 rooms. Features room on/off, system off, volume, balance, one-button 8-source selection, one function control per source, LED readout ..... \$765

System 48. Covers 4 rooms. Features room on/off, volume up/down, bass, treble, 8-source selector, one function control per source, LED readout, direct source access. .... \$6,546

System 10. Covers 8 rooms. Features room on/off, system off, volume, balance, 2-source selection, one function control per source, LED readout, expandable to another zone. .... \$4,840

System 1. Covers 8 rooms. Features room on/off, system off, volume, balance, one-source selection, one source function control, LED readout, expandable to another zone. .... \$3,227

### ISO-2 Line-Level Isolation Amplifier

Active, differential unity-gain amp with differential input with ground isolation between the RCA inputs and outputs. Can be used to eliminate audible hum due to ground loops and it is capable of driving long line-level wire runs. 2 x 3 x 4 in ..... \$395

# ACCESSORIES

## ACC-1 Low-Voltage AC Controller

Power switching device for AC sources. Provides low-voltage control of AC power. Features 2 grounded receptacles; 2 control inputs. Capable of allowing separate systems to share a common component; provides switched AC power for remote applications; AC relay. . . . . \$395

## CCS-2 Speaker Source Selector

Current-controlled speaker source selector. AC current sensing device that provides a switched outlet and allows a pair of speakers to be used with two amplifiers. . . . . \$495

## ACS-2 Speaker Source Selector

AC-controlled speaker source selector. Features switched outlet. . . . . \$395

## LIS-2 Line-Level Audio Switcher

Audio switching device which features two stereo line-level inputs and one stereo output. Allows separate systems to share a component, can be used to switch input to an amplifier from a multi-room system to a local one, and can be used to add a seventh source to a six input preamp. . . . . \$395

## AUDIOQUEST

### Profile Pro-Lift

Damped cueing device can be tripped to a tonearm and allows manual turntables to act as if it were semiautomatic. . . . . \$45

### AQ Sorbothane Big Feet

Set of four 2.5" diameter, 1" high sorbothane feet to absorb vibrations. . . . . \$40

### AQ Sorbothane Record Mat

0.12" sorbothane record mat absorbs vibrations from the vinyl. . . . . \$39

### AQ Sorbothane CD Feet

Set of four 2" diameter, 3/4" high sorbothane feet \$25

### AQ Record Brush

Over one million conductive carbon fibers small enough to enter the groove of the record. . . . . \$15

## AUDIO RESEARCH

### MCP-2 Solid-State Pre-Preamplifier

Analog Module pre-preamp boosts output of MC cartridges for input to preamps. Features front-panel selectable loading for MM cartridges; front-panel selection of MC gain and imp; fully balanced and regulated circuitry. FR DX > 80,000 Hz ± 0.25; harmonic distortion < 0.005% at 1 V rms output from 20-20,000 Hz; MC noise > 100 nanoV at 10 ohm input RIAA equalized; 3.5 x 19 x 8.5 in. . . . . \$1,395

### EC-21 Electronic Crossover

Vacuum tube, 2-way electronic crossover (passive top) with auto-muting. . . . . \$995

### RMV-3 Rack-Mount Ventilator

Passive convection unit to allow proper air flow to dissipate heat. For all Audio Research units. . . \$150

### RFP-1 Rack-Mount Filler Panel

Available in 3.5", 5.25", 7", or 10.5" heights. . . \$79  
RFP. Rack filler panel - 1.75" (no handles). . . \$49

218. EC-21 18 dB capacitor kit (specify frequency) \$21  
216. EC-21 6dB capacitor kit (specify frequency) \$15

Wire Products by Audio Research range in sizes from 0.5 - 9 meters

### LitzLink Interconnects

3.0 meter unshielded. . . . . \$230  
shielded. . . . . \$275  
SGL Speaker Cables. 3.0 meter. . . . . \$219  
LitzLine Speaker Cable. 3.0 meter. . . . . \$555

## AUDIOSOURCE

### RTA-ONE Real-Time Analyzer

Hand-held real-time analyzer and SPC meter with built-in calibrated electret condenser microphone. Features 10 single-octave bands; 90 level LED's; LED's for power, low battery, overload. 1 lb without batteries; 6.69 x 3.88 x 2-in. . . . . \$250

### PNG-ONE Pink-Noise Generator

Battery-powered pink-noise generator. . . . . \$55  
AC adaptor. . . . . \$15.95  
Carry bag. . . . . \$34.95

### LLC-1 CD Laser Lens Cleaner

Digitally encoded CD with built-in, man-made, carbon fiber impregnated cleaning brush. . . \$29.95

## AUDIO-TECHNICA

### AT605 Audio Insulator System

Vibration-damping feet for use under speakers or turntables to prevent acoustic feedback; individually adjustable height. Supplied in set of 4, with bubble level. . . . . \$35.95

### AT618 Disc Stabilizer

Solid brass disc with rubber coating designed to damp out sound-coloring resonances. Fits over turntable spindle. . . . . \$29.95

### AT6015 TechniClean

Audiophile record maintenance system cleans record surface and reduces static. . . . . \$25.95  
AT6016. Deluxe stylus cleaning system with enclosed fluid container. . . . . \$15.95  
AT613. TechniClean record cleaner replacement fluid. Removes dust, dirt, and oily finger prints without promoting static. 60 cc. . . . . \$4.50  
AT613/500. 500 ml refill. . . . . \$12.95

### AT609 Headshell Wire Set

Replaces original headshell wiring; set of 4 color-coded connectors made of silver litz wire and gold plating. . . . . \$11.95

### AT607 Stylus Cleaning Formula

Cleaning solution dissolves foreign material on stylus without harming known stylus adhesives; in bottle with stylus brush. . . . . \$4.95

### AT608 Record Care Formula

Dissolves fingerprints, loosens stubborn particles, reduces static bond of micro-dust, airborne material. Nonalcoholic; use directly on fibers of conventional brushes; 2 oz. . . . . \$4.50

### AC-TP4 Terminal Pins

Set of 4 gold-plated terminal pins with color-coded insulators. . . . . \$2.99

### AC-TP4 Spade Lugs

Set of 4 gold-plated spade lugs with color coded insulators. . . . . \$2.99

### Vital Link Cable Series

AT620 Super Conductivity Cable Set  
Litz wire construction with double shielding and gold-plated connectors; for low imp and max rejection of RF interference; set of 2. . . . . \$35.95

### Full Audio Transfer Speaker Cable

Speaker cable made from oxygen-free copper. Available in large diameter and extra-heavy diameter gauges.

AXD-30. 30 ft; extra heavy diameter; stereo pair; spooled. . . . . \$22.95  
AXD-50. As above, 50 ft. . . . . \$33.95  
AXD-500. As above, 500 ft. . . . . \$60/ft  
ALD-30. 30 ft; large diameter; stereo pair; spooled. . . . . \$9.95  
ALD-50. As above, 50 ft. . . . . \$13.95  
ALD-500. As above, 500 ft. . . . . \$22/ft

## Full Audio Transfer Interconnects

Features oxygen-free copper; potted terminations; gold-plating.

AC122-A1. 2-in. 2-out, RCA, 1 meter. . . . \$11.95  
AC122-A2. As above, 2 meters. . . . . \$15.95

## BASF

### Ferro Extra I Car Case

Cushioned, fully-lined vinyl case holds 10 cassettes; Ferro Extra I is housed in a protective shell specifically designed for sound on the move, and can withstand temperature extremes from -22°F to 185°F. . . \$9.95

## BIB

### A-616 CD Cleaner

CD cleaner features molded disc tray; chamois-covered cleaning pad/wheel; cleaning fluid; CD eject lever; chamois cleaning brush. . . . . \$14.95

### A-631 Multi-Media Storage Module

Holds a combination of CD's, or CD doubles. 5.13 x 5.13 x 1 in. . . . . \$4.95

### A-611 CD Storage Module

Strong practical CD storage unit holds up to 10 CDs in their jewel boxes. Fingertip touch release system automatically ejects selected CD for easy removal. Interlocking modules can be expanded vertically or horizontally. Molded of strong ABS plastic. Wall or shelf mounting. . . . . \$4.59

### A-612 Disposable Tape Head Cleaner

Disposable audio head cleaner for all types of cassette players. Nonabrasive cleaning fluid applied by push-button cleans entire tape path. Use twice (once each side) then dispose. . . . . \$1.79

## BOULDER AMPLIFIERS

### Balanced Cables

Gold-plated 3-pin male to 3-pin female.  
CB75. 75 ft. . . . . \$199/pr  
CB35. 35 ft. . . . . \$119/pr  
CB12. 12 ft. . . . . \$73/pr

### Audio Interconnect Cables

Gold-plated RCA-type phono; for general interconnection  
CA01. 8-inch. . . . . \$49  
CA03. 3-foot. . . . . \$57  
CA06. 6-foot. . . . . \$69

### Boulder Terminator

Speaker-cable termination network provides termination imp for frequencies where speaker cable must be treated as transmission line. Designed to eliminate reflections back down the speaker cable into amp for improved clarity. . . . . \$39/pr

## BRYSTON

### .4B Switch Box

High-level switching with gain/balance control. Features 4 inputs (CD player, tuner, tape, aux); 1 tape loop. 9 lbs; 1.75 x 19 x 9-in. . . . . \$550

### Switch Boxes

No active components; designed for high-current applications.  
3-Way. With headphone jack. . . . . \$199  
2-Way. With headphone jack. . . . . \$130

### TF-1 MC Cartridge Step-Up Transformer

Designed to provide sufficient voltage to any preamplifier from low-output MC cartridges. 2 x 3 x 4-in. . . . . \$500

### 10B Electronic Crossover

Front panel switching for control of filter settings, rolloff frequency, and slope. Low pass (and midrange) level settings are 1 dB increments over a ± 5



# ACCESSORIES

dB range. All amplification buffer and filter stages are discrete. All passive filter components are 1% metal-film resistors and polystyrene capacitors. Available fully balanced (in and out) or unbalanced . . . \$1,000

## BUFFSTUFF

### CD Saver

Compact disc restorer eliminates audible pops and clicks caused by light scuffs and scratches on CD's and laser video discs. 30 milliliter bottle of formula is harmless to plastic coating on CD's and is good for dozens of applications . . . \$9.95

## BUSH INDUSTRIES

### Jamestown Collection

Units feature golden brown oak finish, solid oak molding; raised panel doors and drawers, soft-shaped pilasters, and brass hardware.

**AV786.** A/V center. Features 2 storage drawers; 4 shelves; tempered-glass doors. 50.31 x 53 x 20.4 in . . . \$359.95

**AV773.** A/V center. Features adjustable shelf; enclosed storage space; 2 drawers. 60 x 50.5 x 16.4 in . . . \$299.95

**AV763.** A/V center. Features 4-shelf component area; tempered-glass doors; enclosed storage area. 48.25 x 53 x 16.38 in . . . \$269.95

**A666.** Audio cabinet. Features one fixed, three adjustable component shelves; tempered-glass doors; casters. 47.56 x 22.25 x 16.38 in . . . \$159.95

### Oak Elegance Line

Units have soft-shaped 2.5"-wide solid oak frames, oak veneer on sides and tops, multi-step finish with double-lacquer topcoat, brass accents on oak frames, through-glass brass hardware, concealed fasteners, safety-tempered solar-bronze-tinted glass doors etched with subtle silk-screen pattern, radiused plinth base. Ready to assemble.

**AV1675.** Full-sized entertainment center holds 27" TV; adjustable shelf; glass-enclosed storage with adjustable shelves. 49.25 x 49.9 x 20 in . . . \$529.95

**A1665.** Audio cabinet with adjustable shelves; 2 glass doors. 23 x 45 x 16 in . . . \$269.95

### Furniture Systems Series

With rounded corners, soft-shaped tops, fully radiused shelf fronts with decorative accent lines, Library Oak finish, full-length solid-oak door pulls, cord openings in rear, 72" tall.

**L139WS.** Wood and glass doors; middle doors open 180° for TV viewing; 30 x 19.4 in . . . \$269.95

**L132WS.** Audio cabinet with wood and glass doors; 20 x 19.4 in . . . \$219.95

**L134WS.** Open shelving above wood doors; 30 x 19.4 in . . . \$199.95

**L124WS.** Wood doors; 15.4 in . . . \$169.95

**L121WS.** Wood doors; 15.4 in . . . \$149.95

**L123WS.** Open shelving; 15.4 in . . . \$149.95

### AV1375 Deluxe Home Entertainment Center

A/V center with 25" h x 27" w TV compartment; adjustable VCR shelf; glass-enclosed storage with adjustable shelf; 20.25"-W glass-enclosed audio area with 3 adjustable shelves; silk-screen pattern on glass doors with wood frames. Solid oak and oak laminates with multi-step laquered finish. Rounded edges; soft shapes. 49.5 x 47.62 x 19 in; 180 lb . . . \$399.95

### AV774 Room Divider/Entertainment Center

2 drawers below TV compartment; 4 adjustable bottom doors; wooden door handles; rounded edges on frame; shelving; drawers and doors. Library-oak finish. Cords run through center partition. 49 x 69.5 x 15.5 in; 180 lb . . . \$259.95

### AV760 Deluxe Audio/Video Center

TV compartment for 26" or 19" TV; safety-tempered glass door; 3 adjustable shelves; enclosed space for accessories; pedestal base; adjustable shelf above TV compartment. Library-oak finish. Soft-shaped tops

and rounded edges. 47.36 x 47.25 x 15.5 in; 145 lb . . . \$229.95

### B929 Armoire Audio/Video Center

Designed for bedroom. Features rear-cord access; 2 sets of double doors; can also be used for clothing; Library Oak finish; wood handles with brass end caps. 55 x 30 x 19.5 . . . \$199.95

### A1365 Audio Cabinet

22"-W interior glass-enclosed facade with silk-screen pattern and wood frames; 2 adjustable interior shelves; hand-stained and chiseled accent lines; rounded edges and soft-shaped design. Solid oak and oak laminates with multi-step laquered finish. 23.5 x 42.25 x 16.5 in; 78 lb . . . \$199.95

### AV757 Audio/Video Center

A/V entertainment center. Features space for several audio components, a VCR and TV; tempered-glass doors; enclosed storage area; simplified assembly system. 43.75 x 47.25 x 15.38 in . . . \$179.95

### A641 Audio Cabinet

Audio cabinet with safety-tempered glass door features 2 adjustable shelves; soft-shaped lift top; 2-wheel casters. Library oak finish. 18.88 x 38.62 x 17.5 in; 58 lb . . . \$119.95

## CALRAD ELECTRONICS

### Gold-Plated RCA-to-RCA Cable

18-kt gold-plated connecting cable. Features ultra-low loss shielding; gold-plated steel springs.

**55-803.** 10-ft. long . . . \$13.20

**55-802.** 6-ft. long . . . \$11.25

**55-800.** 3-ft. long . . . \$9.90

### 55-860 4 RCA Plug Cable

4 RCA plugs on each end; 15 ft. . . . \$10.65

### RCA-to-RCA Cable

Dual shielded stereo audio cable; polarized.

**55-1001.** 240" cable . . . \$5.10

**55-1000.** 120" cable . . . \$3.54

**55-998.** 48" cable . . . \$2.61

**55-999.** 72" cable . . . \$2.85

**55-923.** 36" cable . . . \$2.40

**55-924.** 12" cable . . . \$2.25

### 55-968 Speaker Cable

2 20-foot speaker cables. Lug terminals . . . \$3.60

## CANTON

### Connect Series Switchboxes

**Connect 50.** Handles 1-4 pairs of speakers; DIN and phono jack; headphone outputs. Features volume controls for adjusting channels 2 and 4; connection to output of amps, receivers; DIN speaker jacks. \$125

**Connect 20.** Switchbox for 1-3 tape decks or 2 decks and 1 high-level signal source. Features left/right regulators to reduce signal levels before recording; 5-pole DIN jacks . . . \$80

**Connect 10.** Similar to Connect 20 except designed for 1-3 pairs speaker switching. Features standard DIN speaker jacks . . . \$70

### Cantosweep

Record-care brush with antistatic carbon bristles. Removes static charges, dirt particles . . . \$30

### Cantolink Speaker Cable

**60.** Premium-quality 60-mm speaker cable \$2.74/ft

**40.** Premium-quality 40-mm speaker cable \$1.52/ft

**25.** Premium-quality 25-mm speaker cable \$1.07/ft

**15.** Premium-quality 15-mm speaker cable \$0.88/ft

## CARRY DISC BY MUSIC & SOUND IMPORTS

### Carry Disc CD Holder

Holds 14 CD's in a quick open-and-close carrying

case with a protective inner lining of soft velvet . . . \$15.95

**Carry Disc II.** Same as above but designed for use with 3" CD's . . . \$15.95

## CARTER-CRAFT

### 60-437 CD Carry-All

Holds 6 CD's without cases. Storage plates fan when case is opened with the slide button. Black, hinged case . . . \$20.49

### 60-409 CD Cleaning Kit

Includes cleaning solution . . . \$19.95

### 60-355G Stereo to Stereo Dubbing Kit

Use for dubbing from stereo VCR to stereo VCR. Coded plugs for correct input/output; strain reliefs; 6 ft. cable . . . \$19.10

### 60-357G Stereo to Mono Dubbing Kit

Use for dubbing from stereo VCR to mono VCR. Coded plugs for correct input/output; strain reliefs; 6 ft. cables . . . \$18.39

### 60-416 CD Storage Case

Auto eject and add-on unit holds 5 compact discs. Stackable modular design allows expansion of storage system . . . \$13.65

### 60-436-3 3" CD Adaptor

3" CD adaptor permits playing of 3" CD's on regular CD equipment. Grooves permit secure fastening of the 3". 3-Pack . . . \$9.90

Single . . . \$3.80

### 60-435 CD Storage Case

Holds 20 CD's in cases; permits fast viewing of front, backside or spine of disc case . . . \$5.50

### 60-434-3 Lift Lock DeLuxe CD Storage Case

Pops up disc as case opens, center lock will unlock/lock CD automatically when case is opened/closed. 3-Pack . . . \$5.45

Single . . . \$2.20

### Soft-Touch Cassette Storage Cases

Storage cases eject tapes by touching drawer front.

**40-218.** Portable with carry handle stores 12 tapes . . . \$40.45

**40-217.** Auto unit padded all around for safety, impact, heat resistant. Holds 6 cassettes. . . \$35.65

**40-216.** Expandable unit holds 6 tapes and is expanded by purchasing additional units . . . \$21.35

### 60-419 CD Converter

Converts automotive sound system to digital sound with cassette adaptor. Plugs into portable CD output/headphone jack and adaptor inserts into auto cassette player . . . \$24.75

### 34-155 Deluxe AC Adaptor

U.L.-approved AC/DC adapter for 3, 4.5, 6, 7.5, 9, and 12-V battery-operated components. Features universal 5-way plug. Includes built-in reversing feature. 1.5 lb . . . \$12

**34-157.** As above with 300/100 mA conversion switch . . . \$10.95

### 40-158 Tape Care Kit

Features chemical cleaners and lubricants for heads, guides, and capstans. For use with auto and home tape decks. Includes 1 bottle each of cleaner and lubricant, a supply of swab-style Kleen Stix, and a specially treated cloth . . . \$7.55

### 40-130-C Cassette Head Cleaner/Demagnetizer

Cordless cassette head cleaner and demagnetizer removes dirt and residual magnetism without use of any current. For home and auto cassette decks \$4.90

### 40-126 Cassette Head Cleaner

Includes cleaning fluid . . . \$4.10

# ACCESSORIES

60-415. Clear, hinged, individual jewel case for CD storage. . . . . \$2.60  
60-415-3. Jewel case 3-pack. . . . . \$5.45

## Speaker Wire

2-conductor, 24-, 20-, or 18-gauge wire for hook up to 8-ohm speakers. Features clear-plastic insulation.  
32-150. 25-ft length, 24 gauge . . . . . \$2.60  
32-152. 50-ft length, 24 gauge . . . . . \$4.05  
32-154. 100-ft length, 24 gauge . . . . . \$6.15  
32-155. 1,000-ft length, 24 gauge. . . . . \$52  
32-156. 50-ft length, 20 gauge . . . . . \$5.75  
32-158. 100-ft length, 20 gauge . . . . . \$10.95  
32-159. 50-ft length, 18 gauge . . . . . \$7.94  
32-157. 100-ft length, 18 gauge . . . . . \$15.10

## Connection Cables

Dual, color-coded stereo cable with RCA phono plugs on all ends.  
60-342G. 12-ft gold-plated plugs. . . . . \$6.65  
60-340G. 6-ft gold-plated plugs. . . . . \$2.20  
38-143. 12-ft . . . . . \$4.60  
38-142. 6-ft . . . . . \$3.25  
38-141. 3-ft . . . . . \$2.55

## CARVER

### MC Moving-Coil Transformer

Matches low output of MC cartridge to standard MM phono stage. Selector switch for 3.9, 39, 110 ohms for virtually any MC cartridge. Gain 24 dB; 1.5 lb. \$129

## CELLO

### Speaker Stands

Granite . . . . . \$5,500/pr  
Wood lacquer . . . . . \$2,500/pr  
Oak . . . . . \$1,500/pr

## CHICAGO SPEAKER STAND

### Hercules Collection

Speaker stands with spiked feet and spiked metal plate.

25-910P. 25" high, 9" x 10" metal plate . . . \$160/pr  
25-69P. 25" high, 6" x 9" metal plate . . . \$160/pr  
20-910P. 20" high, 9" x 10" metal plate . . . \$155/pr  
20-69P. 20" high, 6" x 9" metal plate . . . \$150/pr  
15-910P. 15" high, 9" x 10" metal plate . . . \$150/pr  
12-910P. 12" high, 9" x 10" metal plate . . . \$145/pr

### Chicago Collection Speaker Stands

XLX-3000. 30" high with spikes . . . . . \$110/pr  
XLX-2000. 20" high with spikes . . . . . \$110/pr  
RJ-10. 10" high without spikes or casters . . \$85/pr  
BB02. As above, 8" high . . . . . \$50/pr

### Black Vinyl Collection

Black vinyl speaker stands.

BV-25. 25" high . . . . . \$60/pr  
BV-20. 20" high . . . . . \$55/pr  
BV-15. 15" high . . . . . \$45/pr  
BV-25. 9" high . . . . . \$45/pr

### JSE Model 1

Speaker stand for JSE Model 1 speaker. With spikes and casters . . . . . \$110/pr

### TC-50 Spica Servo Woofer Stand

Speaker stand for TC-50 Spica Servo Woofer. With spikes and casters. . . . . \$80

### Quad Stand

For Quad speakers. With spikes and casters \$400/pr

## COUNTERFEET BY SUMIKO

### Cone-Shaped Feet

To isolate components from mechanical disturbance.  
C-3. For components and speakers; with double-thread tapped screws . . . . . \$6/ea  
C-4. Tall Counterfeet for components and speakers; with double-threaded tapped screws. . . . . \$8 ea

C-37. Replaces feet of Sota turntables . . . . \$12 ea  
C-35. Replaces feet of Oracle turntables. . . \$15 ea  
C-38. Replaces VPI turntable feet. . . . . \$12

## COUNTERPARTS BY SUMIKO

### System Mat

Record platter mat made from lead/barium energy-absorbing layer, anti-static treatment, polymethyl-methacrylate base material, warp-reducing structural concavity. For use with record clamp only . . . \$95

### CD Interface Mats

Clear plastic mats permanently adhere to label side of disc; contained-layer damping said to reduce vibration; protects from scratches that can damage data. 10 mats per package . . . . . \$10

## CROWN INTERNATIONAL

### Plug In Panel Accessories

Several optional modules are available. The following list is not intended to be all inclusive but only representative.

#### PIP-FMX

Plug-in panel with female to male XLR balanced bridging daisy chains (interconnects) the amplifier inputs. Features one lowpass and one high-pass filter. 6.37 x 1.87 x 3.87 in; 8.5 oz. . . . . \$25

#### PIP-XOV

Mono crossover/filter features multiple formats such as bi-amping, tri-amping with 12 dB or 18 dB/octave high/low-pass filters. 6.37 x 1.87 x 3.87 in; 8.5 oz \$89

#### PIP-FXT

Balanced-to-balanced transformer isolated input from source to amplifier. Features plug-in panel with female XLR's and 1:1 transformers; center taps of transformers oriented to accommodate jumpers; one low-pass and one high-pass filter. 6.37 x 1.87 x 3.87 in; 8.5 oz . . . . . \$59

#### PIP-CLP

Overload detector features two female XLR type connectors; compressor range 13 dB nominal; input imp 20k ohms balanced; FR 20-20,000 Hz ±0.2 dB . . . . . \$69

## CUSTOM WOODWORK & DESIGN

All Woodmore cabinets are handcrafted of select hardwood solids and veneers. Available in natural oak, dark oak, natural American walnut, and black oak, with matching shelves. Cabinets can be grouped or stacked to make complete entertainment centers.

### Magic Lowboy Audio Cabinet

Concealed audio cabinet rises to user height by remote control. Fully enclosed. Max height 53"; closed, measures 47.25 x 34 x 19 in. \$2,100-\$2,400

### Woodmore Record Cabinet

4 adjustable shelves; wood-veneer back; stacking accessory. 47.25 x 42 x 14 in. . . . . \$410-\$550

### Woodmore Glass-Lid Audio Cabinet

2 adjustable shelves; feather-light hinged lid; casters. 24 x 42 x 19 in . . . . . \$415-\$525

### Woodmore Lowboy Audio Cabinet

4 adjustable shelves. 47.25 x 30 x 19 in. . \$415-\$515

### Woodmore Audio Cabinet

3 adjustable shelves; casters. 24 x 42 x 19 in \$335-\$435

### Woodmore Entertainment Table

Finished on all 4 sides; with wood base. 47.25 x 16 x 19 in . . . . . \$345-\$430

### Woodmore Smallboy Audio Cabinet

2 adjustable shelves. Comes with casters. 47.25 x 21 x 19 in . . . . . \$335-\$420

### 30" Woodmore Audio Cabinet

2 adjustable shelves; casters. 24 x 30 x 19 in \$270-\$345

### 21" Woodmore Audio Cabinet

1 adjustable shelf; casters. 24 x 21 x 19 in \$220-\$270

### Woodmore Doors

Wood Doors. 160x concealed European hinges and solid-wood pulls. . . . . \$90-\$230  
Rollwood. Veneered razor-sliced slats on wood track . . . . . \$160-\$180  
Glass Doors. With chrome, black, or gold hardware. . . . . \$30-\$73  
Drop Leaf. For 21" Woodmore or Woodmore Small-boy . . . . . \$55-\$64

### Accessories

Outlet Strips and Boxes. Filtered and spike protected; 8-outlet strip; isolated . . . . . \$195  
2-outlet box with indicator lamps (always on) . \$70  
Woodmore Speaker Stands. 9", 15", 30"; with adjustable spiked levelers . . . . . \$100-\$140  
CD Drawer. Holds 81 CD's; 7.5" h. . . . . \$90-\$110  
Rack Mount. With wood rails, metal channels, hardware to mount 5 units . . . . . \$87-\$100  
Cassette Drawer. Holds 72 cassettes; 4.5" h \$80-\$90  
Slide-Out Shelf. 2.5"; extends 10". . . . . \$72-\$80  
Wood Back. Custom slotted at additional cost \$32-\$55  
Cabinet Lights. With matching wood rail; 0.75" h; includes cord switch. . . . . \$40-\$47

### Stacking Rails and Bases

Solid wood accessories for stacking units into wall systems; with leveler brackets and adjustable levelers; rails 0.75" h; bases 1.75" h. . . . . \$22-\$130

## DB SYSTEMS

### DB-4B MC Pre-Preamplifier

MC-cartridge pre-preamplifier with low-noise cascode amps, diode-protected inputs. Features internal low/medium/high gain switch. THD 0.0008% 20-20,000 Hz at 1 V; noise -86 dB at 1 mV; FR 10-100,000 Hz ±0/-0.1 dB; input/output imp 9k ohms, 2,000 pF/220 ohms; max load 10 kilohms, 3,000 pF; internally adjustable gain/sens/overload dB/40 ±V/45 mV high. . . . . \$205  
With DBP-4 coupler and DB-2A power supply \$275

### DBP-11 Phono Capacitance Switch Box

Features front-panel-switchable 100-400-pF loading for 2 MM phono cartridges. Open position is provided. Phono jacks, plugs are gold plated . . . \$79.95  
DBP-11MC. Similar to DBP-11 but with resistive instead of capacitive values. Includes 5-ohm load. . . . . \$79.95

### DBP-2J/5 Passive Switch Box

Switching module with 10 input and 2 output jacks. Can be used for switching 5 turntables, tape recorders, amps, signal processors, etc. Allows for selectable cartridge loading when used with DBP-6 or 6MC. A-B comparisons possible with 2 Y-adaptors. Can be used for switching baseband video (not ch 3 or 4). . . . . \$69.95  
DBP-2JAU/5. Same as DBP-2J except jacks are gold plated . . . . . \$89.95  
Optional Alps volume control installed in switch box . . . . . \$40

### DBP-12X Audio Cable

10-meter length of low-capacitance (400 pF) stereo interconnect cable, terminated with premium DPB-13PX gold plugs. . . . . \$95  
1-meter length . . . . . \$49

### Gold-Plated Connectors

DBP-9AU. Banana plugs, 8 gold-plated. . . . \$24.50  
DBP-9H. Banana handles, 4 red, 4 black. . . \$3.50  
DBP-9P. Gold-plated dual banana plugs (2 pk). . . . . \$17.95  
DBP-9J. Gold-plated dual banana jacks (2 pk) \$17.95



# ACCESSORIES

DBP-13J. .25" gold-plated phono jacks (8 pk) \$15.95  
 DBP-13JR. .36" gold-plated phono jacks (8 pk) \$29.95  
 DBP-13P. Gold-plated phono plugs (8 pk) \$17.95  
 DBP-13PM. Gold-plated phono plugs, 4 red, 4 black \$29.95  
 DBP-13PX. Gold-plated phono plugs (2 pk) \$19.95  
 DBP-14. Gold-plated spade lugs (8 pk) \$5.95  
 DBP-15. Gold-plated Y-adaptors (2 pk) \$12.95  
 DBP-16. Gold-plated 12 dB input attenuators \$12.95  
 DBP-17. Gold-plated phono coupler (2 pk) \$12.95

## DBP-6 Phono Equalization Kit

Permits adding 100-400 pF of capacitance to phono input of any preamp or receiver. Consists of 2 Y adaptors, set of gold-plated phono plugs with polystyrene capacitors wired to give 100, 150, 200, 300, 400 pF. Resistive load (1%) included for experimenting with MC cartridges plus pair of empty plugs for making custom values \$36.95  
 DBP-6MC. Similar to DBP-6 except for use with moving coil cartridges. Loads are 1%; metal-film resistors. Two empty plugs included. \$36.95

## DBP-10 Phono Alignment Protractor

Accurately measures lateral tracking error of mounted phono cartridges to within 0.25°. Instructions provided to optimize geometry, set correct overhang for minimum error and distortion, useful when checking vertical tracking angle. Comes with carrying case \$24.95

## DBP-CK Cramolin Audio Kit

Contact cleaning system. Dissolves and prevents oxide formation. Reduces noise and distortion \$19.95

## DBP-VSP Voltage Spike Protector

Plug-in power line adaptor limits voltage surges that can damage solid-state components \$14.95

## DBP-SC Souther Clever Clamp

Lightweight clear record clamp. 23 g \$10

## dbx

### Model 400XG Program Route Selector

Rack-mountable powered switching box has same capabilities as below except dubbing can be interrupted by sound processors and/or encode/decode side of NR unit. Lighted pushbuttons show program route \$279

### Model 200XG Program Route Selector

Rack-mountable passive switching box has inputs/outputs for 3 sound processors, 1 NR unit, and 3 tape decks. Facilitates direct dubbing between any of the decks \$149

## DENNESEN ELECTROSTATICS

### Pivotram

Locates proper spot on turntable chassis for drilling tonearm mounting hole. Made of aircraft aluminum. 1 lb; 12 x 3.3-in \$100

### Sound Tractor

Phono cartridge alignment protractor gives proper distance and offset angle for any pivoted in one simple step. Made of aircraft aluminum. 1 lb; 12 x 2 x 3 \$100  
 Same unit but made of plastic. \$35

### Polaris FM Antenna

Indoor FM antenna. Totally passive, yet has as much as 14 dB more signal gain than dipole antenna normally used. Includes coax cable and balance. 1 lb; 18 x 2 x 2 \$40

## DENON

### RC-605 Programmable Remote Control

130 programmable keys shared by two programs. Also stores signals of other remote controls. \$120

## D.G. INDUSTRIES

### Compact Disc Storage

Stackable plexiglass CD tray. Features storage of 29 CD's; tilts discs for easy reading of titles \$29.95 ea

## DISCRETE TECHNOLOGY

### Platinum Plus Speaker Cable

Uses 7 individual cables for each speaker; features spiral twist; protective braided tubing; silver-plated oxygen-free copper conductors; assembled by hand; minimum of 30 amps DC current handling capability.  
 6-ft. \$650  
 8-ft. \$755  
 10-ft. \$875

### Dreadnaught Speaker Cables

Made with pure silver-plated, oxygen-free copper wire. Each cable consists of two cables with a total of 20 multi-gauge individually-insulated solid conductors.  
 4-ft. \$225  
 6-ft. \$315  
 8-ft. \$395  
 10-ft. \$460

### Power Bridge AC Line Cable

Filters broad-band RF from being fed back into the AC lines and then into other components. 20 silver-plated oxygen-free conductors; PVC jacket; 2-prong male plug.

Power Bridge II 8-ft. \$200  
 Power Bridge II 6-ft. \$170  
 Power Bridge I 8-ft. \$120  
 Power Bridge I 6-ft. \$100

### Platinum Interconnect

Made with pure silver, multi-stranded, braided shield and pure silver-plated oxygen-free copper inner conductors.

.5-m. \$135  
 1-m. \$150  
 1.5-m. \$165  
 2-m. \$180  
 2.5-m. \$195  
 3-m. \$210  
 4-m. \$240  
 6-m. \$300  
 10-m. \$420

### 312C Speaker Cable

Phase-aligned multi-gauge speaker cable. Features silver-plated copper inner conductor; dielectric teflon insulation; spiral twist.

4-ft. \$125  
 6-ft. \$150  
 8-ft. \$175  
 10-ft. \$200  
 12-ft. \$225  
 15-ft. \$260

### Balanced Line Silver Plus Interconnect

Phase-aligned multi-gauge interconnect. Features silver-plated copper inner conductor; dielectric teflon insulation; spiral twist; full-foil shield; heavy PVC outer jacket.

.5-m. \$112.50  
 1-m. \$125.50  
 1.5-m. \$137.50  
 2-m. \$150.50  
 2.5-m. \$162.50  
 3-m. \$175.50  
 4-m. \$200.50  
 5-m. \$225.50  
 6-m. \$250.50  
 7-m. \$275.50  
 8-m. \$300.50  
 9-m. \$325.50  
 10-m. \$350.50

### Balanced Line Blue Interconnect

Phase-aligned multi-gauge interconnect. Features silver-plated copper inner conductor; dielectric kynar

insulation; drain line; spiral twist; full-foil shield; heavy PVC outer jacket.

.5-m. \$83.50  
 1-m. \$89.50  
 1.5-m. \$95.50  
 2-m. \$101.50  
 2.5-m. \$107.50  
 3-m. \$111.50  
 4-m. \$128.50  
 5-m. \$141.50  
 6-m. \$154.50  
 7-m. \$167.50  
 8-m. \$180.50  
 9-m. \$191.50  
 10-m. \$219.50

## Sound-Sorber Panels

Sound-absorbing panels made of acoustic molded foam. Feature total noise reduction factor of .90; absorbs down to 100 cycles; breaks standing waves when installed in corners; diffuse with used on rear wall; fire retardant; odorless. Available in 9 different colors. \$7/sq. ft.

## The Lug

High-performance lug for use with speaker cables. Features construction with oxygen-free long-molecular copper plate with conductivity-enhancing alloy; 35° angle; color coding. \$7

## DISCWASHER

### DiscKit Record Care

Contains D4+ record-care system. Zerostat antistatic instrument. SC-2 stylus-care system housed in DiscOrganizer. \$59.95

### Discset

Provides essentials of record and stylus care; includes D4+ record-care system. SC-2 Stylus Care System in milled walnut base \$24.95

### Zerostat-3

Anti-static instrument neutralizes static charges on virtually any surface; works without coating by showering surface with millions of positive and negative ions. \$29.95

### Discwasher Compact Disc Cleaner

Includes a CD cleaning unit, CD-1 cleaning fluid, cleaning pad grooming brush and replacement cleaning pad. 14 oz \$19.95  
 CD-1, 6-oz. fluid refill \$10.95  
 CD-1, 1 oz fluid refill \$3.95  
 CD Cleaner Replacement pads \$4.95

### CD Storage System

Lightweight, durable unit stores up to 20 CD's in their jewel boxes. Designed to allow user to flip through CD's stored in unit. Can be wall mounted. 6 x 2 x 14.75-in \$19.95

### D4+ Record Care System

Safe record-cleaning system designed to remove contaminants without reducing record fidelity. Consists of D4+ fluid that lifts, suspends contaminants; soft-fiber pad with hand-milled walnut handle to remove debris and dry record; DC-1 pad-cleaner brush \$16.50  
 1.25 oz replacement fluid \$2.50  
 6 oz replacement fluid \$9.95  
 16 oz replacement fluid \$16.95

### D'Stat II Mat

Turntable mat reduces static charges on contact, provides cushion to reduce sonic, mechanical feedback between record and turntable platter \$8.50

### SC-2 Stylus Cleaner System

Includes scientifically safe cleaning fluid, precision nylon-fiber brush designed to safely remove stylus contamination. Brush has attached stylus-inspection magnifying mirror \$8.50

# ACCESSORIES

## V.R.P. Record Sleeves

Scratch-free record liner sleeves that prevent static charge buildup during record storage and removal from sleeve. Super smooth surface will not ooze plastic additives onto record; package of 10. . \$3.50

## Cables

### Gold-ens Audio/Video Cables

Perfectionist cables for audio, video; provide ultra-low capacitance with heavy gold-plated connections with molded nylon insulating sleeves.

2-meter triple strand	\$23.95
1-meter triple strand	\$21.95
5-meter double strand	\$19.95
4-meter double strand	\$17.95
2-meter double strand	\$15.95
1-meter double strand	\$13.95

## Tape Recording Accessories

### D'Mag Cassette Deck Demagnetizer

Demagnetizes tape heads, capstans, and entire tape path. Requires no batteries or power cords. \$19.95

### Discwasher Tape Deck CareSet

Includes Perfect Path Cassette Head Cleaner and C.P.R. Capstan Pinch Roller Cleaner. \$12.95

### C.P.R. Capstan/Pinch-Roller Cleaner

"Positive Drive" cleaning system for cassette decks designed to safely scrub pinch rollers, capstans with advanceable cleaning fabric and harmless fluid \$8.95 .34-oz. C.P.R. fluid refill \$1.95

### System II Cassette Tape Care

Combination head, capstan, and pinch roller cleaner for cleaning and maintaining all home and car cassette players. Nonabrasive dry fiber matrix tape safely removes dust and oxide buildups on heads and along entire tape path. Capstan, pinch roller cleaner with an advanceable fiber-grid surface and specially formulated fluid removes tackiness and contamination from capstan and pinch roller assembly to prevent jammed and eaten tapes. With carrying case. 4 x 2.5 x 0.5-in. \$13.95  
System II. As above without carrying case. \$11.95

### Perfect Path Cassette Head Cleaner

Nonabrasive dry system for audio cassette decks designed to remove oxides, and gummy residue along tape path and on tape heads. \$5.95

### Cassette Storage Case (6-unit)

Constructed of rugged, water-resistant vinyl. Clear window lid and velcro-style clasp. \$7.95  
12 Unit \$14.95

## DNM BY MUSIC HALL

### Interconnect and Speaker Wire

Solid core; designed for enhanced clarity and depth. \$3/ft

### Pre-Made Interconnects

.5 meter	\$75
1 meter	\$85
2 meter	\$100

## ENTRE BY ANALOG EXCELLENCE

### ET-100 MC Step-Up Transformer

Step-up transformer for MC cartridges. Can take 3 stereo connections at once with selection on front panel. 4-way switch on front panel for imp matching to MM cartridges. \$400

## ESS LABORATORY

### Dynaco VA-400 FM Antenna

Amplified FM antenna for home use. Features pyramid design for optimum reception. \$59.95

## FINELINE DISTRIBUTING

### Furniture Systems

*FineLine Audio/Video cabinetry are finished inside and out with oak and oak veneers. All cabinets are modular and may be stacked for wall units. Veneered panels and shelves have a 3/4" hardwood composite core. Shelves are rated to hold up to 125 lb. All cabinets now available with Protec Super Protectant on Oak or Satin Black Polurethane on Oak.*

**Audio + Video Cabinet.** 1 fixed video shelf; 1 fixed, 2 adjustable audio shelves and dividers. 42 x 49.75 x 21 in. \$599

**Tall Video Cabinet.** 1 fixed, 1 adjustable shelf. 42 x 30 x 21 \$399

### Super Monitor Cart

Holds direct-view TV's up to 39" wide; doubles as horizontal audio/video system cabinet; three adjustable shelves, two glass doors, five casters; 40.25 x 21 x 21 inches. \$350

**Tall Audio Cabinet.** 1 fixed, 2 adjustable shelves and record dividers. 42 x 20.5 x 21 in. \$339

**Short Video Cabinet.** 1 adjustable shelf. \$209

**Short Audio Cabinet.** 1 shelf and record dividers \$220

## GENEVA GROUP

### PF-211 Professional Bulk Eraser

Erases reel-to-reel, cassette, 8-track cartridge tapes to noise level of virgin tapes. 2,300 gauss flux intensity. 2 x 3.5 x 5 in; 2 lb, 4 oz. \$65

### VCR-205 Audio/Video Demagnetizer

Removes residual magnetism from heads and tape path parts. 290-gauss field intensity; vinyl covered probe won't harm heads. 9.25 oz. \$43

### PF-412 Auto Stop CD Cleaner

Wet type CD cleaner featuring 20 sec. cleaning cycle, chamois type cleaning pad, straight-line cleaning pattern; and Discsafe Fluid Spray. Batteries in AC adaptor not included. Requires 4-AA batteries \$39.95

### PF-425 Disc Wipes

For cleaning CDs. Each package contains 70 pre-moistened, non-abrasive cleaning cloths containing Discsafe cleaning solution. \$5.99

### Tape Splicing Blocks

*Specially grooved to hold tape firmly during splicing. Features 2 deep slits for straight, diagonal cuts. Supplied with double-backed adhesive for mounting without drilling; stainless-steel cutter. 5.75 x 1 x 0.31 in.*

PF-311. For 0.25" tapes. \$32.28

PF-312. For cassette tapes. \$32.28

### PF-400 Compact Disc Storage Albums

LP-size storage unit for CD's. Each holds 4 CD's in clear plastic carrying case. 3-pack; holds 12 CD's total. \$14.95

### Storex CD Storage File

Drawer storage device with brake to keep drawers from falling out; 90 degree lid holder; labels easily viewed; each unit can be fitted together to form expanding storage system; matte black finish \$8.50 each

### QM-505 Cellular Foam Swabs

Package of 25 swabs, for cleaning audio, video tape decks. \$9.40

### PF-570 Deluxe Tape Deck Kit

Audio head cleaner with pinch roller cleaner/revitalizer. 100% pure TF head cleaning solution. Safe for all decks. Can be used with QM-505. \$12.99

### PF-116 Tape & Head Cleaner

Aerosol spray cleaner with extension tube to reach recessed parts. Safe for audio, video decks. 16-oz can. \$9.09

### PF-562 Audio Cassette Head Cleaner

Cleans heads and tape path components in 5 sec. Features gold-colored metal hubs; nonabrasive cleaning tape; IP alcohol cleaning solution; standard cassette housing. 3.25 oz. \$7.99

### QM-108 Tape/Head Cleaner

Liquid tape and head cleaner in 8-oz can. \$6.10

### QM-103 Tape/Head Cleaner

Aerosol tape and head cleaner blasts loose oxides, dirt. Supplied with extension tube. \$6

### PF-120 Audio/Video Splicing Kit

For editing and repairing audio cassettes, VHS and Beta videocassettes; splicing tape for 36 audio or 24 video splices; leader tape for audio cassette, VHS, Beta; with instructions. \$5.99

### QM-102 Tape Head Cleaner

Liquid tape head cleaner in 2-oz bottle. Leaves no residue; can be used on capstans, pinch rollers \$4.99

QM-122. Same as QM-102 but in 1.7-oz spill-proof bottle. \$4.20

### PF-105 Mini Super Blast

Removes dust and dirt from hard-to-reach areas. 1.5-oz can. \$3.35

### PF-870 Double RCA Jack

Connects RCA cables together in series for extra length. \$2.99

### PF-860 Mini-to-RCA Adaptor Cable

For connecting pocket stereos (or anything with mini jack) to stereo system (or anything with RCA inputs). \$2.99

### PF-115 Electronic Cable Ties

20 reusable ties; each 5"; with pop locks; trimmable with scissors. \$2.29

### Reel Tabs

*Precut adhesive-backed Mylar or metal tabs for tape splicing, editing. Designed for use with Geneva splicing equipment.*

### 0.25" Mylar Reel Tabs

QM-531. 1,000/pkg. \$111.39

QM-526. 200/pkg. \$23.39

QM-521. 50/pkg. \$7.56

### Cassette Mylar Reel Tabs

QM-522. 50/pkg. \$6.68

QM-524. 50/pkg. \$9.22

## GUSDORF

### 4570 Angela Oak Audio Cabinet

Features tempered safety glass; 2 adjustable interior shelves; hooded dual-wheel casters; removable record album dividers. 37.75 x 17.5 x 14.75 in. \$105

### 3370 Black Audio Cabinet

Chrome trim; tempered safely glass doors with magnetic catches; lift-up top for turntable; concealed casters; 2 adjustable shelves; ready to assemble with instructions and included tools. 39 x 19 x 18 in. \$159  
3375. Similar to 3370 except in oak. \$149

### 2645 Oak Audio Cabinet

Oak solids with weathered oak finish; lift-up top for turntable access; tempered safety glass doors with magnetic catches; 4 adjustable shelves; ready to assemble with instructions and tools provided. Interior 18.6" w; outside 21.25 x 42.75 x 17 in. \$219.95  
2745. Similar to 2645 except dark oak finish \$219.95



# ACCESSORIES

## 4445 Golden Oak Audio Cabinet

Bronze-tone trim strip and hardware; rounded corners and moldings; smoked tempered safety glass doors with magnetic catches; 3 adjustable shelves; record dividers; assembly instructions and tools provided. Interior 15.5" w; outside 20.4 x 48.6 x 19..... \$149.95  
4447. Same as above except with ebony finish \$149

## 0145 Trendline Deluxe Speaker Supports

Black cushioned speaker stands; trimmed in chrome. Overall 14.25 x 13.75 x 12.62 in..... \$55.95/pr  
0148. Similar to above except in oak..... \$55.95/pr

## 5945 Audio Cabinet

Autumn oak finish resists moisture and scratches. Features lift-up top; 3 lower internal shelves; push-to-open tempered safety glass doors. 43.5 x 19 x 15.37 in..... \$229.95

## HEYBROOK BY D'ASCANIO AUDIO

### TPS Power Supply

Two-way electronic speed switcher with voltage line stabilizer and filter. For use with the Heybrook turntable or others using synchronous motors. 2 x 4.5 x 9 in; 4 lb..... \$249

### HBS-3 Speaker Stand

Loudspeaker stand designed for stable, rigid support. 4 adjustable pointed spike feet top and bottom. 13.36 x 10 x 11.36 in; 18 lb..... \$139/pr  
HBS-1. Similar to HBS-3 except 18" tall.. \$179/pr  
HBS-P5. 20" speaker stand..... \$129/pr

## HIGHPHONIC BY ANALOG EXCELLENCE

### MC Step-Up Transformers

HP-T7H. For use with 15-40 ohm MC cartridges. Distortion <0.01%; 6 x 3 x 5-in; 4.4 lb... \$750.00  
HP-T7L. Same as above except for 1-10 ohm cartridges..... \$650  
HP-T5. For 10-40 ohm MC cartridges. Gold finish; aluminum case. Distortion <0.02%. 6 x 3 x 4-in; 3 lb..... \$495

### HP-S5 Headshell

Gold finish; aluminum alloy with OFC copper lead wires; cartridge mounting screws go directly into fingerlift. 1.3 g..... \$99

## HUNT BY MUSIC HALL

### EDA Carbon-Fiber Record Brush

Cleaning brush with carbon fibers supported by velvet pad to reduce effective length to 2 mm; filaments designed to track record grooves; center pad statically charged to lift dust..... \$25

## INNOVATIVE CONCEPTS

### ProView CD File

CD multiple stack, side-by-side or vertically, file system. Holds up to 18 CD's in a vertical library; touch-release mechanism; highly durable plastic with black satin gloss finish..... \$9.95

## INTERNATIONAL COMPONENTS

### VS-4000E Stereo Audio-Video Control Center

Electronic Stereo control center. Features 4 inputs; 4 outputs; direct line stereo audio/video connectors; full independent switching to different inputs/outputs at the same time; LED indicators; 0.4 dB giant linearity at each output; gold-plated connectors; brushed black aluminum faceplate and extra shielded metal cabinet..... \$207.36

### Audio-Video Cables

Low capacitance, double-shielded, double insulated

cables feature EM/RF interference rejection, signal transfer, and flexibility; clear PVC outer jacket. 24 Karat gold-plated connectors; and stranded center conductors.

A-VC1012G. RCA to RCA 12' cable..... \$25.42  
A-VC1006G. RCA to RCA 6' cable..... \$17.24  
A-VC1003G. RCA to RCA 3' cable..... \$13.10  
A-VC1112G. Quick "F" to Quick "F" 12' cable\$25.42  
A-VC1106G. Quick "F" to Quick "F" 6' cable\$17.24  
A-VC1103G. Quick "F" to Quick "F" 3' cable\$13.10

### Double RCA to RCA Patch Cables

Extra Heavy-duty gold end double RCA to RCA patch cables.

A-VC812G. 12' cable..... \$14.42  
A-VC806G. 6' cable..... \$12.16  
A-VC803G. 3' cable..... \$10.16

### A-HEC25 Headphone Extension Cable

Black coiled cable; 25' extended, molded plug and jack with stress relief..... \$5.84

### A-VC806GE Double RCA to RCA Patch Cable

Economy gold-end double RCA to RCA 6' patch cable separate video and audio cables..... \$5.84

## INTRACLEAN BY AMERICAN RECORDER TECHNOLOGIES

### D-501 Cassette Demagnetizer

In cassette shell for insertion into decks.... \$24.95

### D-511 Wand Demagnetizer

Hand-held plug-in demagnetizer for heads, capstans, tape guides, other metal along tape path; auto shutoff when not in use..... \$21.95

### CD-101 Compact Disc Cleaner

Chamois-like brush; cleaning solution, disc holder..... \$16.95  
CD-102. Replacement cleaning pads..... \$6.95  
CD-103. CD cleaning fluid..... \$4.95

### C-911 Autoreversing Cassette Cleaner

In cassette shell; contains S-711 fluid to clean heads, capstan, pinch rollers; nonabrasive cleaning band; left pinch roller pad retracts for cleaning 3-head decks; automatically switches direction in autoreverse decks; replaceable pads..... \$14.95  
C-912. Replacement pad kit..... \$3.95

### S-711 Professional Head Cleaner

Halogenated hydrocarbons clean heads, capstans, pinch rollers; no alcohol..... \$7.95

### C-S1 Audio Cotton Swabs

6 long highly polished maple sticks; tightly wound tip mounted with solven-resistant glue..... \$2.95

## JVC

### CK-50 CD Cleaner

Automatic CD cleaner features specially processed rotating cleaning pad; auto stop mechanism \$49.95

### VX100 CATV Antenna Control Unit

Enables direct reception of FM stereo supplied by cable companies. Can be used with several JVC receivers. Preset stations and control switch for cable/FM selection..... \$40

### CXM70 CD Magazine

Additional 6-disc magazines for JVC CD changers..... \$20

## KENWOOD

### SRC-4000 Audio Rack

Basic series component cabinet features tempered smoked-glass front door; casters; record-storage compartment. 45.81 x 19.31 x 16.63 in..... \$230

## AT-56 Audio Timer

Features 24-hour clock-timer with 12 hour FL digital display; digital time adjust controls; sleep-timer setting from 1 min to 1 hour 59 min; two AC outlets..... \$109

## RC-100 Programmable Remote Control

Built-in control keys for Kenwood audio components and TV monitors. Features 58 programmable keys; infrared system..... \$99

## KINETIC AUDIO

### Cabinets

Furniture-styled equipment/record/tape cabinets. Can be stacked; adjustable-height shelves or rack rails; walnut veneer over particle-board side panels.  
EC-XL. 48 x 21 x 18in. Deluxe unit with plexiglas door, black dual-wheel casters..... \$500.00  
EC-L. 48 x 21 x 18 in..... \$300.00  
EC-M. 38 x 21 x 14 in..... \$200.00  
EC-S. 24 x 21 x 14 in..... \$150.00

### Speaker Stands

Straight or tilted speaker stands with dual-angle up/down capability and flat black satin finish.  
S-L. Large..... \$200.00/pr  
S-M. Medium..... \$150.00/pr  
S-S. Small..... \$125.00/pr

### Stereo Amplifier/Line-Level Control

For bi/multi-amping, other amp level adjustments. Features 10k-, 25k-, 50k-ohm imp; phono jacks; connectors; mounting hardware..... \$150.00

### Stereo Amplifier/Speaker Selector

Switches 2 stereo amps into single pair of speakers or 2 pairs of speakers from single stereo amp. \$150.00

## KLYNE AUDIO ARTS

### SK-2A Pre-preamplifier

Pre-preamplifier, for low output MC cartridges. Features ultra low distortion and high resolution design. Gain 24 dB; Bandwidth 0.8-350 kHz; adjustable high frequency contour; output imp 600 ohms..... \$750

## KOSS

### Portable Stereo Speakers

Mini speakers designed to plug into headphone jack of a portable stereo system.  
KSC/8000. Dual-amplified speakers. 2-250 mW/ch; 8.9 oz (w/o battery)..... \$25/pr  
KSC/5000. Mylar-covered diaphragm driver and amplified power booster..... \$16/pr  
KSC/500. Features dual full-range transducers; 3.2 oz..... \$10/pr

## LASER BY SWIRE MAGNETICS

### Tape Accessories

Audio Head Demagnetizer..... \$19.99  
Wet Head Cleaner..... \$5.99  
Dry Head Cleaner..... \$1.49

## LASERLINE BY CREATIVE POINT

### CD-4800W Compact Disc Storage unit

Holds up to 48 CD's. Securing Release Mechanism locks disc in slot and releases disc cartridge at a touch. Genuine oak finish cabinet..... \$59.95  
CD-4800B. Same as above in black finish.. \$49.95  
AC-5400W. Same as above for storage of 54 cassettes..... \$49.95  
AC-5400B. Same as 5400W in black finish.. \$39.95

### CD-2400 Compact Disc Storage Unit

Holds up to 24 CD's. Securing Release Mechanism locks disc in slot and releases disc cartridge at a touch. Made of impact-resistant, high-grade plastic. Modular design for adding additional units. 4.9 x 18.66 x 6.75-in; 3.59 lb..... \$29.95

# ACCESSORIES

**CD-1200.** Same as CD-2400 except holds up to 12 CD's. 3.95 x 12.6 x 6.75-in; 2.15 lb. . . . . \$19.95  
**CD-800.** Same as CD-2400 except holds up to 8 CD's. 4.9 x 6.4 x 6.75-in; 1.07 lb. . . . . \$9.95

## AC-1800 Cassette Storage Unit

Holds 18 cassettes; impact-resistant, high-grade plastic; cassettes lock in place; stackable; nonskid feet; hinged door. 5.4 x 16.75 x 5.3-in; 2.42 lb. . . . \$19.95

## THE LAST FACTORY

### System Formula Series

#### Formula 1 Record Cleaner

For first play and deep cleaning; removes all surface deposits; cleans 60 records; microfiber applicators; 2 oz. . . . . \$13.95

#### Formula 2 Record Preservative

Stop record wear for two hundred or more plays; protects up to 60 records; 2 microfiber applicators; 2 oz. . . . . \$16.95

#### Formula 3 All-Purpose Record Cleaner

Cleans records without residue; lasts over five hundred cleanings; 2 microfiber applicators; 2 oz. . . . . \$8.95

#### Formula 4 Stylus Cleaner

Non-alcohol cleaner which removes all stylus deposits safely; several hundred cleanings; cleaning brush; applicator; 0.25 oz. . . . . \$7.95

#### Formula 5 Stylast Stylus Treatment

Extends stylus life up to 10 times normal; to be used before playing each record side; thousands of treatments. Comes with cleaning brush and applicator; 0.25 oz. . . . . \$19.95

#### Formula 6 CD Protection System

Cleans discs safely and protects them from minor scratches; smudge protectant; approx. 200 treatments; applicator and base . . . . . \$14.95

#### Formula 6 CD/Video Disc Cleaner-Treatment

Cleans discs gently and safely; protects read surface from minor scratches, abrasion, and fingerprints; approx 100 treatments; applicator handle, 4 cleaning pads; 1 fl oz . . . . . \$12.95

#### Formula 7 Cassette Head Cleaner

Cleans tape heads and tape-path rollers; two cassette mechanisms; exclusive formula. Comes in 0.5 oz bottle. . . . . \$13.95

#### Formula 8 Video Head Cleaner

Gentle, non-alcohol formula cleans surface, treats head, guides and drive components in VCR mechanism; wet/dry system using exclusive formula; available in BETA and VHS; approximately 50 cleanings. Comes in 0.5 oz bottle. . . . . \$19.95

#### Formula 9 Tape Head Treatment

Surface chemistry treatment for tape heads and guides; eliminates stick-slip and scrape-flutter; reduces distortion and noise; exclusive formula; over 100 treatments; 2 swabs; .25 fl oz. . . . . \$19.95

#### Formula 10 Tape Preservative

Increases media life up to 8 times; improves tape performance; reduces oxide shedding, dropouts, and deterioration; treats 35-50 1800" reel to reel tapes; 4 swabs; 2 fl oz . . . . . \$22.95

#### Combination Kits

See above for contents of each formula.

**Formulas 1 and 2** . . . . . \$27.95  
**Formulas 2 and 3** . . . . . \$22.95  
**Formulas 4 and 5** . . . . . \$24.95

#### Trial-Size Kits

**Formulas 1 and 3.** 0.5 oz . . . . . \$7.95

**Formulas 2 and 3.** 0.5 oz . . . . . \$9.95  
**Formulas 1, 2, and 3.** 0.5 oz . . . . . \$13.95

#### Microfiber Applicators

10 in each packet. White, gold or 5 of each . \$12.50

## LEBO

*Voyager series nylon carry cases are water resistant and suitable for carrying a variety of personal accessories. Features include zippered openings; padded construction; adjustable straps. Various colors are available.*

**33260 Leather Tex Voyager.** Two sided, soft carry case for 60 boxed or 96 unboxed cassettes; personal accessory pocket, detachable, adjustable shoulder strap and handle; removable inner tray; black imitation leather. . . . . \$35.95

**25248 Jumbo Voyager.** Nylon carry case for up to 48 CD's or personal accessories; can also store portable CD player and most camcorders; removable inner divider; two large zippered side pockets; detachable adjustable shoulder strap; red, black, victoria blue, gray . . . . . \$33.95

**33230 Leather Tex Voyager.** Soft carry case for 30 boxed or 48 unboxed cassettes; large accessory pocket; detachable, adjustable shoulder strap and handle; removable inner tray; black imitation leather. . . . . \$25.95

**20030 First Class Voyager.** For 30 boxed or 48 unboxed cassettes, with large personal accessory pocket, removable tray, detachable, padded shoulder strap, handle, color coordinated hardware; red, black, silver grey, victorian blue . . . . . \$22.75

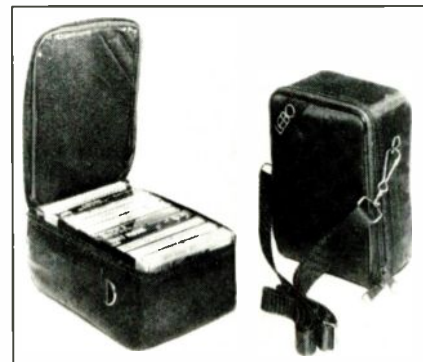
**21230 Custom Lite Voyager.** For 30 boxed or 48 unboxed cassettes, with large personal accessory pocket, removable tray; red, black, silver gray, victorian blue . . . . . \$18.95

**21220.** Same as above for 20 boxed or 32 unboxed cassettes . . . . . \$15.75

**25212.** For 12 regular or 6 twin box CD's with outside personal accessory pocket and detachable shoulder strap; interior velcro compartment divider . \$13.25

**25006.** For 6 regular or 3 twin boxed CD's, detachable shoulder strap and belt loop . . . . . \$9.50

**21010.** For 10 cassettes or personal accessories.



detachable shoulder strap and belt loop; red black, silver gray, victorian blue . . . . . \$7.95

## LESLIE DAME ENTERPRISES

### CD Storage Units

**23096 CD Storage Rack.** Oak grain finish CD rack holds up to 96 CD's. Stackable . . . . . \$47.95

**23860 CD Storage Unit.** Solid oak unit with tambour door, holds 60 CD's . . . . . \$45.95

**CD-232 CD Storage Unit.** Deluxe solid oak handcrafted finish, stackable, lazy susan construction. Turns around. Holds 32 CD's . . . . . \$41.95

**CD-236 CD Storage Unit.** Deluxe handcrafted solid oak wood, stackable, holds 36 CD's. . . . . \$39.95

**CD-48 CD Storage Unit.** Solid hardwood construction CD storage unit. Holds 48 CD's. Stained and lacquered finish . . . . . \$36.95

**23064 CD Storage Rack.** Oak grain finish rack holds up to 64 single CD's or 32 twin box CD's. Stackable . . . . . \$36.95

**23760 CD Storage Rack.** Solid teak rack holds up to 60 CD's . . . . . \$33.95

**CD-20 Deluxe CD Case.** CD carrying case holds 20 CD's. Leatherette cover with matching hardware and felt interior . . . . . \$27.99

**23836 CD Storage Unit.** Solid teak unit with roll top; holds 36 CD's . . . . . \$27.95

**CD-24 CD Storage Unit.** CD storage unit of solid hardwood construction. Handcrafted, stained, and lacquer walnut finish. Holds 24 CD's . . . . . \$24.95

**CD-60 CD Storage Unit.** 3-drawer deluxe walnut woodgrain finished cabinet holds 60 CD's . . \$24.95

**CD-48E Storage Unit.** CD storage unit of plywood construction. Holds 48 CD's vertically . . . . \$21.95

**CD-40 CD Storage Unit.** 2-drawer, deluxe walnut woodgrain finished cabinet holds 40 CD's . . \$17.95

**CD-24E CD Storage Unit.** CD storage unit of plywood construction. Holds 24 CD's vertically . . . . . \$12.95

**CD-10 CD Storage Unit.** CD storage unit holds 10 CD's; 4 sides interlocking design; wall/shelf mounting or free standing. . . . . \$3.95

**CD-12 CD Storage Unit.** Dual CD storage unit holds 12 CD or 6 doubles; 4 sided interlocking plastic modular design; wall/shelf mounting or free standing . . . . . \$3.95

### Cassette Storage Units

**TA-248 Cassette Storage Rack.** Solid oak wood storage rack holds 48 audio cassettes . . . . \$39.95

**82045 Cassette Storage Unit.** Solid teak storage unit with roll top holds up to 48 audio cassettes. \$35.95

**82100 Cassette Storage Rack.** Solid teak storage rack holds 100 cassettes. . . . . \$35.99

**TA-72 Cassette Wall Rack.** Wood cassette wall rack with individual tape compartments holds 72 audio cassettes . . . . . \$31.95

**TA-136 Attache Cassette Case.** Attache-style cassette case of wood construction with black leatherette finish and key locks holds 36 cassettes. . . \$28.95

**TA-48 Cassette Wall Rack.** Wood finish; individual tape compartment holds 48 audio cassettes. \$24.95

**TA-660 Vinyl Cassette Case.** Padded vinyl cassette case holds 60 cassettes. . . . . \$13.95

**HI-30C Audio Storage Cabinet.** Audio storage cabinet holds 30 audio cassette tapes . . . . . \$20.95

**HI-42C Audio Storage Cabinet.** Holds 42 audio cassette tapes . . . . . \$12.95

**TA-630 Vinyl Cassette Case.** Padded vinyl cassette case holds 30 cassettes. . . . . \$8.95

**TA-624 Vinyl Cassette Case.** Padded vinyl cassette case holds 24 cassettes. . . . . \$7.95

**TA-612 Vinyl Cassette Case.** Padded vinyl cassette case holds 12 cassettes. . . . . \$4.99

**MRC-2 Magnetic Record Cleaning Brush** . . . \$1.99

## MAXELL

### Demagnetizer

**HE-44.** Electronic Demagnetizer . . . . . \$29.99

### Head Cleaners

**R-CL.** DAT Head Cleaner. . . . . \$12.99

**HC-401.** Wet Head Cleaner . . . . . \$5.99

**RCT.** Dry Head Cleaner . . . . . \$3.59

**P-Case.** 3-Empty Cassette Boxes. . . . . \$1.49

**CD case.** 26-empty CD boxes . . . . . \$1.79

**MR-7.** 7" Metal Reel . . . . . \$7.99

## McINTOSH

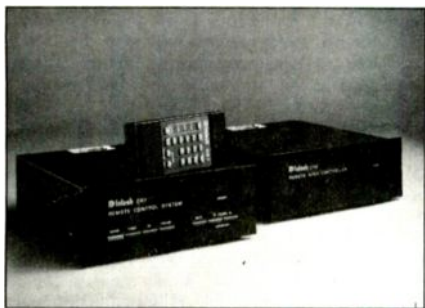
### CR 7 Infrared Remote Control System

Expandable remote system receiver designed to function with most McIntosh components. Features area-specific volume adjustment; AC power activa-



# ACCESSORIES

tion; source selection; tuner station select; full CD player operation; preamp select; mute. 8 lb. . . \$849



**CR 8. Remote Area Controller.** Module for expanding remote capability to another location. . . . \$678  
**HR 7. Hand-held remote transmitter for CR 7 and CR 8.** . . . \$65

## MEMOREX BY MEMTEK

### CP8 Universal Remote Control

Learns functions of 8 remote controls. Features sequencer operation that performs multiple remote commands with one touch; time-day of week clock; booster for more powerful signal; backlit LCD display for night use . . . . . \$99

### Electronic Cassette Demagnetizer

Battery-powered head demagnetizing system. Eliminates residual magnetism to keep recordings free of noise and distortion. Works in less than 1 sec on any deck. . . . . \$24

### Auto Lighter DC Power Adaptor

Power battery-operated radio, tape player, or personal portable through car-lighter socket. Features 6 plug types; 5 voltages; 2 polarities. . . . . \$14

### CD Cleaner

Cleans CD's; restores uniform disc reflectivity; cleaning solution; pad; bristle brush; storage case . . . \$14

### Double Pair Stereo Cable

Features 4 coaxial cables in one; stranded pure copper conductors; color-coded RCA phono-type plugs; gold-plated; maximum signal transfer; interference-free reception . . . . . \$11

### Deluxe Speaker Cable

Premium speaker cable upgrades system. Features 16 gauge heavy-duty cable; 19 strand pure copper conductors; high conductivity; low signal loss. . \$11

### Safeguard Voltage Spike Protector

Guards against brief high-voltage spikes that may occur in AC power lines. Works in any standard 110-120-V AC outlet . . . . . \$7.99

### CD Player Dustcover

Vinyl CD player dustcover with clear front panel. Available in medium (14 x 12.5 x 3 in) and large (18 x 14 x 3 in) sizes . . . . . \$5.99

### Graphite Filament Record Cleaner

Cleans and neutralizes static electricity. Features thorough cleaning through electrically conductive graphite microbristles that fully reach into the bottom of record grooves . . . . . \$5.99

### Audio Patch Cables

Features gold plating for maximum signal transfer; low capacitance, heavy shielding; 95% braided copper shielding.

**6 Foot Length** . . . . . \$6.99  
**4 Foot Length** . . . . . \$9.99

### CD Organizer

Storage unit with independent storage slots holds up to 12 CD's in vertical position; twin pack . . . \$4.99

### CD Storage Case

High-quality dust-proof replacement storage case for individual CD's. standard jewel-box design; twin pack. . . . . \$2.99

### FM Dipole Antenna

Features folded dipole design length-tuned to optimum wavelength for FM radio band; no wire stripping necessary. . . . . \$1.99

### 3-Pack Audio Albums

Design allows tape end in or out for hassle-free storage; cassette protection for home or car. . \$0.99

### Tape and Record Care Products

**X-CD. Cassette Head Cleaner/Demagnetizer** \$6.99  
**Record Care Kit** . . . . . \$5.99  
**Cassette Cleaning Kit** . . . . . \$2.99  
**Record Cleaner** . . . . . \$2.99  
**Record Cleaning Fluid** . . . . . \$2.69  
**Cassette Head Cleaner** . . . . . \$1.89

### Headphone Accessories

**Infrared Cordless Headphone Adaptor.** AC-powered transmitter and battery-powered receiver provides cordless reception for any pair of mini-plugged headphones. . . . . \$70

**Headphone Extension.** 20-ft lightweight stereo headphone extension cable . . . . . \$5.99

**Y-Adapter.** Dual-headphone adapter . . . . . \$2.99

**Mono Adapter.** Mono adapter for stereo headphones. . . . . \$1.99

## MICROSEIKI BY ANALOG EXCELLENCE

### MT-10001. Step-Up Transformer

For 3-ohm MC cartridges. FR 15-60,000 Hz; 6.5 x 13 x 13-cm; 12.6 lb. . . . . \$995  
**MT-1000H.** Same as above but for 40-ohm cartridges . . . . . \$995

### MT-500 Step-Up Transformer

For 3- or 40-ohm MC cartridges. FR 15-60,000 Hz; 6.5 x 13 x 13-cm; 6.6 lb. . . . . \$595

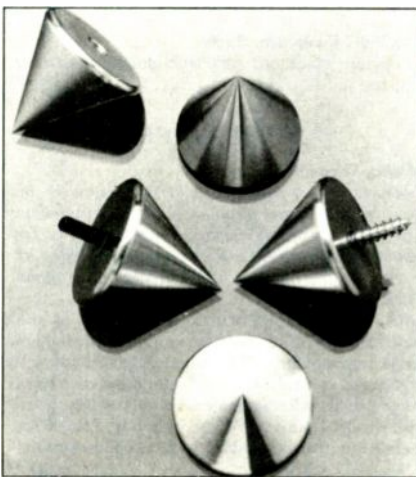
## MITSUBISHI

### M-W5100 Audio Cabinet

Home Theater Components audio cabinet features contemporary styling with dark gray vinyl finish; hide-away glass door; continuously adjustable shelves; hinged-top; design matches Mitsubishi's CS-3103R/MB-103 and CS-3504R/MB-504 television in both height and cosmetics. . . . . \$360

## THE MODSQUAD

### Tiptoes



*Component platforms made of machined aluminum cones. Used to improve coupling between the component and the surface beneath it.*

**MacMod Tiptoes.** for under components, .5" \$5 ea  
**MacMod Rug Tiptoes.** for under speakers on carpets, 1.5" . . . . . \$7 ea

### CD Damper

Compact disc damper is lightweight, thin flexible plastic disc which is loaded atop the CD player to eliminate light leakage while suppressing edge flutter and internal vibrations without increasing servo tracking hunting. . . . . \$24.95

## MOGAMI BY MARSHALL

### 2799 Cable

Features 4 high purity 60 strand copper conductors in quad configuration; oxygen-free copper; non-migrating insulation; use in unbalanced systems using 0.25" or RCA plugs . . . . . \$0.39/ft

## MONSTER CABLE

### CD SoundRings

CD vibration stabilizer mounts on outer edge of CD. High density material provides necessary weight and dampening needed to stabilize CD. Fits all players and comes with centering device.

**50 Rings** . . . . . \$49.95

**12 Rings** . . . . . \$14.95

**1 Ring Sampler.** . . . . . \$1.50

### Speaker Cable

#### M1 Speaker Cable

"MicroFiber" dielectric insulation designed to eliminate "intertransient" noise, reduce transient interference, intended to preserve power and dynamics; primary and secondary grouped networks; carrying case. With M-Spades.

**15-ft pr** . . . . . \$325

**25-ft pr** . . . . . \$500

**30-ft pr** . . . . . \$600

*With X-Terminators.*

**15-ft pr** . . . . . \$400

**25-ft pr** . . . . . \$550

**30-ft pr** . . . . . \$650

**From Spool** . . . . . \$9/ft

#### Monster Cable Connecting Cables

Improved version of original Monster Cable with new strand configuration designed for midrange clarity, faster transient response, and extended low and high FR. Pre-cut, with universal gold pin ends with lock-notch.

**50 ft.** . . . . . \$95/pr

**30 ft.** . . . . . \$60/pr

**20 ft.** . . . . . \$45/pr

**15 ft.** . . . . . \$35/pr

**From spool, not pre-cut** . . . . . \$1/ft

#### Superflex Speaker Wire

High-purity copper speaker wire with flexible Dura-flex insulation; dividing web between the 2 conductors. Same stranding configuration as Monster Cable but fewer strands of wire . . . . . \$0.50/ft

**25 ft.** . . . . . \$40/pr

**15 ft.** . . . . . \$25/pr

**10 ft.** . . . . . \$20/pr

#### Powerline 2 Plus Speaker Cable

Bass control conductor for even distribution of magnetic fields; directly addresses magnetic behavior of audio signals; time aligned audio signal.

**P2P 25 Ft** . . . . . \$200/pr

**P2P 15 Ft** . . . . . \$150/pr

#### Powerline 2 Speaker Cable

"Time Coherent" winding designed to eliminate phase inaccuracies, align highs and lows for improved FR. Underterminated . . . . . \$3.25/ft

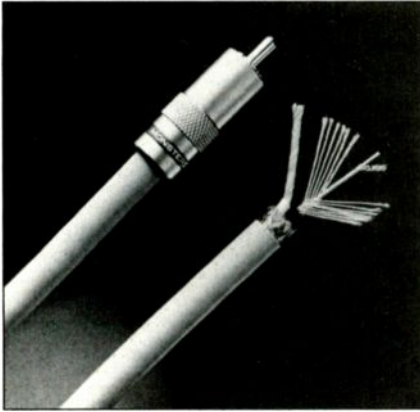
**Powerline 3.** Smaller version of Powerline 2 \$1.75/ft

# ACCESSORIES

## Interconnects

### M1000 Interconnect Cables

"Total Phase Aligned Bandwidth Balanced" design; dual conductors and 3 wire networks; "MicroFiber"; M-Terminator connectors. Precut.



20-ft pr	.....	\$450
2-m pr	.....	\$210
1.5-m pr	.....	\$180
1-m pr	.....	\$150
0.5-m pr	.....	\$110
From Spool	.....	\$9/ft

### Interlink 500 Interconnect Cables

"Precision Bandwidth Balanced" construction; dual conductors with "MicroFiber"; designer colors. Precut.

20-ft pr	.....	\$180
2-m pr	.....	\$75
1-m pr	.....	\$50
From Spool	.....	\$4/ft

### Interlink Reference Connecting Cables

Connecting wire with 3-wire multiple-gauge network for each conductor. Thick core wire designed for frequencies below 300 Hz; 4 medium conductors intended for midrange, hair-thin woven stranded wires made for 700+ Hz.

20-ft pr	.....	\$290
2-m pr	.....	\$130
1.5-m pr	.....	\$110
1-m pr	.....	\$85
0.5-m pr	.....	\$75

### Interlink CD Cable

Interconnect cable for CD players designed to increase performance and sound quality.

20-ft pr	.....	\$150
2-m pr	.....	\$70
1-m pr	.....	\$50

### Interlink 301 Interconnect Cables

High-resolution, precision-stranded, noise shielding, special winding configurations, protects against noise interference. For use with car, truck, van, or RV vehicle sound system.

1-m pr	.....	\$24.95
--------	-------	---------

### Interlink 300 Interconnect Cables

Dual-balanced conductors; dual-shield braid and foil.

20-ft pr	.....	\$50
16-ft pr	.....	\$40
2-m pr	.....	\$24.95
1-m pr	.....	\$19.95
From Spool	.....	\$0.75/ft

### Genesis Lightspeed Tonearm Interconnect

For connecting cartridge to preamp

.....	.....	\$175
-------	-------	-------

### Interlink 400 Interconnect Cable

Same "Bandwidth Balanced" design as Interlink Reference; "Microfiber" technology; unterminated

.....	.....	\$1.25/ft
-------	-------	-----------

20 ft	.....	\$79.95/pr
2.0 m	.....	\$39.95/pr
1.5 m	.....	\$34.95/pr
1.0 m	.....	\$29.95/pr
0.5 m	.....	\$24.95/pr

## NADY

### IR-103 Personal Infrared Stereo Receiver

Infrared stereo transmitter model IRT-520 plugs into any stereo or tape deck's headphone jack. Infrared signal is transmitted to sensor on top of personal receiver. Any number of Nady infrared receivers can be used in a room. A "slave" transmitter, model IRT-520-S is available to extend range and coverage to outdoor areas

.....	.....	\$100
IRH-210. Integral headphone/receiver	.....	\$60

## NAGAOKA

### Prolift Tonearm Lifter

Tonearm lifting device for use with manual turntables. Silicone damped mechanism lifts when tonearm hits a fine trigger wire. Double-sided adhesive pad, adjustable base for height

.....	.....	\$40
-------	-------	------

## NAKAMICHI

### MX-100 Microphone Mixer

Features 3 0.25" mic inputs

.....	.....	\$135
-------	-------	-------

### PS-100 Power Supply

Produces 10 volts DC for MX-100, other Nakamichi blackbox series components; can power up to 6 components

.....	.....	\$128
-------	-------	-------

### DM-10 Head Demagnetizer

Tape head demagnetizer

.....	.....	\$38
-------	-------	------

### SF-10 Subsonic Filters

Compact passive filters operate at line level to remove turntable rumble and other infrasonic resonances. Provides 6 dB/octave filter, down 10 dB at 10 Hz. May be used at tape output or amp tape-input jacks. 2.6" x 0.51" diameter.

.....	.....	\$15/pr
-------	-------	---------

## M.M. NEWMAN

Heli-Tube, Spirally cut, industrial grade, expandable, black polyethylene cable wrap applies like tape to protect/organize wires. .25", .38", .50" sizes for bundles up to 4" dia; 8 ft lengths; 0.50" ..... \$2.25  
0.38" ..... \$1.60  
0.25" ..... \$1.45

## NIKKO AUDIO

### CO-23 Crossover

3-way mono, 2-way stereo, 22-point crossover system; with double mids and turnovers

.....	.....	\$700
-------	-------	-------

### NSR350G Equipment Rack

Woodgrain black pr rack with double doors and glass top

.....	.....	\$269
-------	-------	-------

## NILES AUDIO

### Speaker Selection Systems

Connects up to 4 pairs of speakers to a receiver and plays any or all pairs simultaneously. Accommodates high-definition speaker cables. Features imp protection switch; separate L+R ch grounds. Handles 200 W/ch; genuine walnut side panels; rack mount brackets optional.

MSA-10. Enables play of up to 10 pairs of 4-, 6-, or 8-ohm speakers off of any stereo amp. Features high-power-imp matching transformers; logic circuitry; 10 front-panel controls; rear connector accepts up to 14-gauge speaker wire; separate L+R ch grounds for use with bridged amps. Power handling 250 W/ch. Walnut side panels standard. rack mount ears optional. 12 lb; 17 x 3.5 x 6 in. .... \$550

MSA-6R. Remote-controlled, 6-position speaker switching system to turn on or off either from a central location or remotely by using optional wall controls in different rooms. Turns on AC power to main system as well speakers in individual rooms. All 6 locations can be played at once. Maintains nominal 8-ohm load on amp no matter how many pairs are played. 19 x 5.25 x 12.12 in; 16 lb ..... \$599

SVC-4. For 4 pairs of speakers. Features individual volume controls; connection for second amp; auto-transformers; separate L+R ch ground connections for use with bridged amps. 8 lb; 11.2 x 4.62 x 5.31 in. .... \$280

SVC-4W. Same as SVC-4 except designed to be flush mounted into a wall. Pre-construction and retrofit versions available. .... \$325

SVC-2. For 2 pairs of speakers. Individual volume controls; autotransformers. .... \$150

SPS-1. Accommodates up to 14-gauge speaker wire and power handling capacity up to 100 W/ch. Genuine walnut side panels. .... \$80

Rack mounts. .... \$15

### HDS-6 Speaker Switcher

Enables play of up to 6 pairs of speakers. Accommodates up to 8 gauge wire; power handling 250 W/ch; headphone jack; works with any type of amplifier. .... \$200

HDS-4. Same as above but for 4 pairs of speakers. .... \$150

### CPM-31 Patching Matrix

6 x 6 patching matrix to connect tape decks, equalizers, and NR units. Allows a component's output to be fed to another component's input. Passive unit with RCA jacks on rear. 9 x 4 x 8.75 in; 6 lb. .... \$180

### ADA-6 Audio Distribution Amplifier

Stereo line-level audio distribution amplifier. A single input can be distributed to 6 destinations with no degradation of original signal. .... \$140

### IRP-1 Power Supply

Power supply for infrared repeater system. .... \$140

### SV-5 Auxiliary Selector

Expands auxiliary input to accommodate up to five different sources such as CD, tape deck, tuner; passive volume attenuator enables adjustment of volume of each sound source. .... \$90

### TSB-3 Tape Deck Switch Box

Allows record, playback and dub between any of 3 tape decks. Patching performed by turning knobs. Features RCA phono jacks; optional rack-mount ears and walnut end panels. 7.12 x 2.65 x 5.6 in; 2 lb \$80

### IRR-1 & IRC-1 Infrared Receiver

Wall-mount infrared receiver. When connected to IRP-1 and IRC-1 enables you to control almost any infrared remote control component; up to 30 IRR-1 units can be connected to the IRP-1 power supply.

IRR-1 ..... \$70

IRC-1 ..... \$20

### SCW-1 Volume Control

Wall-mounted stereo volume controls for remote speakers. Use of autotransformers instead of L-pads. .... \$48

SCW-2. Similar to SCW-1 with stereo headphone jack. .... \$66

SVC-1. Table top speaker volume control for remote speakers. Volume adjustment independent from main speakers. Uses autoformer volume control instead of L-pad. .... \$75

SCW-2A. Similar to SCW-1 but has selector switch for 2 different amplifier inputs. .... \$66

SCW-2HP. High-power version of SCW-1. Uses high-power autoformer instead of L-pads. Power handling 15-W/ch. 4.56 x 4.5 x 2.56 in. .... \$70

### DPS-1 Amplifier/Speaker A-B Selector

Permits either of 2 amps to be played into a single



# ACCESSORIES

pair of speakers, or a single amplifier to play into either of 2 pairs of speakers. Features high-power A-B selector switch box; handles 300 W/ch; rear panel connector for up to 14 gauge speaker cable or high definition wire pin connector. 2 lb; 6.12 x 2.8 x 3.15 in. .... \$65

## AXP-1 Auxiliary Input Selector

5-input, 1-output stereo selector box for 5 line-level signal sources. Allows selection by turning a knob. 1 lb; 5.12 x 2.5 x 5.12 in. .... \$55

## PS-1 Phono A-B Switcher

Connects 2 turntables to a receiver with only one phono input. Features 1+R ch grounds; switches both the hots and the grounds for total isolation; RCA phono connectors. 4.75 x 1.9 x 4 in; .5 lb. .... \$50

## DPS-1W Amplifier/Speaker Selector

Wall-mount high-power A-B selector. Used to share a common pair of loudspeakers with 2 different sound sources .... \$50

## L/VW-1 Volume Attenuator

Wall-mount line-level attenuator. When used with preamp and power amp it enables you to put volume control on the wall. .... \$48

## SJ-1 Wall-Mount Connector

Wall-mount plate containing two 5-way binding posts for speaker connections. Designed to mount on wall similar to electrical outlet plate. Available in bone, brass, stainless steel, and white. 2.75 x 4.5 in. .... \$6.30

## NITTY GRITTY

### Mini-Pro MK 2 Record Cleaner

Semi-professional-type record cleaner designed for consumer use. Wets, scrubs, and vacuums both sides of record simultaneously. Cleans record of all dust, grease, and static charge. Features large oak cabinet; strong vacuum motor; quieter operation. 10 x 17 x 10-in. .... \$699

Hybrid 2. Same as above except cleans one side at a time. Built-in hinged dustcover and adaptor for cleaning compact discs. .... \$599

2.5 Fi. Similar to Hybrid 2 without dust cover or CD cleaning. .... \$499

1.5 Fi. Similar to 2.5 Fi except no solid oak cabinet. .... \$429

Model 1.0. Similar to above except manual. .... \$259

## ONKYO

### RC-AV1M Universal Remote Control

Audio/video universal remote control can be programmed to operate a variety of video (VCR's, TV's, cable boxes) and audio components with infrared remote capabilities. "Learns" the remote operations of a variety of components and can store more than 100 different functions into memory. Comes with control codes for Onkyo products already programmed in. Uses 4 AAA batteries. 7.06 x 2.88 x 1.25 in. .... \$119.95

### RC-AV10M Universal Remote Control

Features 55 programmable functions; full control of more than 6 components; audio and video operation modes; pre-programmed with Onkyo RI command modes .... \$80

## ORA ELECTRONICS

### Studio Spec Brand

### TU2 Cable Ready TV Tuner

139 Channel, wireless remote TV tuner enables non-remote controlled TVs to be fully remote and cable ready. Front panel features 6 control buttons; back panel features switchable channels. 3 or 4 outputs, 120 V outlet, VHF/UHF/cable, in and RF out, RCA jacks for audio/video out, and jack for MPX stereo. .... \$300

SDX1 Stereo TV Decoder ..... \$300

### SDX1 Stereo TV Decoder

Decodes stereo TV audio signal for use with home audio/stereo equipment. Features switch for stereo/mono/SAP; separate CH. 3; MPX selector switch; stereo left/right audio outputs. .... \$179

### CDA-1 CD Car Adaptor

Equipped with 2-cable sets: one connects a CD or cassette player output to the adaptors input, the other connects the adaptors 9-volt output to power external players. Complete with mounting hardware. .... \$40

### S-VHS Cables

Cables designed for use with video equipment including all S-VHS monitors, VCRs, videodisc players, monitor/TVs, and dubbing equipment. 4-pin mini DIN male to 4-pin mini DIN male cables enable separate transmission of Y and C signals to enhance signal to noise ration, horizontal resolution, contrast, and picture quality. Full shielding. 12 ft. .... \$23

### CD-2 CD Cleaner

Self-contained CD cleaning kit includes cleaning brush, chamois pad, cleaning base/box, and 1.5 oz of CD cleaning solution in pump-spray bottle .... \$13

CD-4. Individual CD storage boxes, clear plastic jewel box design. 2 per package. .... \$4

MK-116. Audio head maintenance kit includes felt, brush, and mirror probes, replacement felt pads, and head cleaning solution. .... \$4

ATC-DC-113. Dual-capstan audio cassette head cleaner. Wet-type specially designed to clean entire tape path in dual-capstan or autoreverse cassette decks. .... \$4

ATC-112. Wet-type, audio cassette head cleaner. \$3

## ORTOFON

### RC-015 Stylus Cleaner

Electronic stylus cleaner with tuned oscillator vibrates all contaminants off the stylus assembly. Includes 20 ml bottle of stylus-cleaning fluid; magnification mirror .... \$34.95

### CC-021 Cassette Maintenance Kit

Includes autoreverse cassette cleaner and electronic head demagnetizer .... \$29.95

### SC-060 Audio System Maintenance Kit

Includes carbon-fiber record cleaner; stylus cleaner; autoreverse cassette cleaner; CD cleaner .... \$24.95

### RC-014 Electronic Static Eliminator

Ion gun with trigger control bombards record surface with static-neutralizing ion particles. .... \$21.95

### RC-017 Acoustic Shock Absorbers

4 adjustable shock absorbing feet help prevent acoustic feedback and allow for leveling turntable. For use with turntables up to 45 lb. .... \$21.95

### CD-040 Compact Disc Maintenance Kit

Includes cleaning cloth, cleaning spray, lens cleaner, in album storage box with padded cleaning surface .... \$19.95

CD-042. Replacement spray for CD-040 .... \$6.50

### CC-020 Autoreverse Cassette Cleaner

Wet-type cleaning cassette cleans all tape heads, capstans, and pinch-rollers in autoreverse cassette decks in 30 sec. Includes cleaning solution and replacement pads. .... \$12.95

### CD-041 Component Isolators

Includes 8 absorbing feet with self-stick backing to eliminate vibration on all type components. .... \$9.95

### RC-013 Record Care Kit

Includes walnut record brush with one-way pile; record cleaning solution to remove dirt and eliminate

static; stylus cleaner .... \$16.95

RC-011. Replacement fluid for RC-013 .... \$4.95

### RC-010 Carbon Fiber Brush

Record cleaning system with polished carbon fibers to remove dirt from record grooves while built-in copper-wire grounding system eliminates static build-up .... \$9.95

### RC-016 Disc Coupler

Designed to couple the record to the platter for increased bass response and improved imaging. Includes 2 center hubs to fit most center spindles .... \$9.95

### RC-018 Alignment Tool

Phono cartridge alignment tool features mirrored surface with two-point alignment system and center spindle cutout. .... \$4.95

### RC-012 Stylus Cleaner

Cleaning fluid removes residue from stylus. Includes fluid and applicator brush .... \$3.49

RC-009. Stylus pressure gauge. .... \$2.95

## O'SULLIVAN INDUSTRIES

### 79680 Entertainment Center

Solid oak frames with marshall-oak laminate finish. Features clear tempered glass doors; 3 adjustable or removable component shelves; shelf provided for smaller television and VCR combo; twin oak drawers for accessories; casters. Overall: 45 x 49.13 x 20.75 in. .... \$299

### 79030 Entertainment Center

Finish in glossy black formica high-pressure laminate. Features tempered clear glass doors; 2 adjustable shelves; pull-out turntable shelf; double doors for storage area with cast-metal door pulls. Overall 47 x 48.25 x 15.25 in. .... \$289

### 79438 Entertainment Center

Finished in registry oak. Features 4 tempered clear glass doors with brass finish hardware; 2 adjustable component shelves; storage area with adjustable/removable shelf; drawer with an open storage area. Overall 71 x 48.75 x 14.75 in; TV area: 27.5 x 29 x 14.75 in. .... \$239

### 79480 Entertainment Center

Finished in registry oak laminates. Features rounded-edged design and sculptured rails with brass finish accents; tempered clear glass door protects adjustable/removable component shelves; bottom drawers are appointed with brass finished drawer pulls with wood-grain laminate inserts. Overall 43.24 x 49 x 15.37 in. .... \$199

### 79227 Entertainment Center

Finished in colonial oak laminates. Features tempered clear glass doors protecting a top storage area; 2 adjustable/removable component shelves and twin doors with solid-wood pulls; TV area accepts most monitors. Overall 71 x 14.75 x 54.37 in; TV area: 27.5 x 14.75 x 30 in. .... \$179

### 79236 Entertainment Center

TV area that accepts most 19" monitors; twin veined doors concealing storage area; storage drawer; bottom right shelf is adjustable or removable; middle shelf component area; solid oak pulls on drawer & doors. 69 x 48.5 x 14.75 in; TV area 25.5 x 26.75 x 14.5 in; right shelf 25.5 x 19.88 x 14 in; bottom shelf 16.5 x 19.88 x 14 in. .... \$169

### 79020 Entertainment Center

Finished in white laminates with adjustable or removable VCR shelf and ten component shelves. Features pull-out turntable shelf; TV area; tempered glass door and doors concealing storage area below. 47.25 x 47.88 x 15 in; TV area 27.38 x 27 x 15.38 in. .... \$169

# ACCESSORIES

pered clear-glass doors. Features twin component shelving; large TV area for most 19" TV's; twin veined doors concealing storage area; solid oak door pulls. 47.25 x 48.13 x 15.5 in; component area 27.13 x 19.13 x 13.75 in ..... \$159

## 79980 Entertainment Center

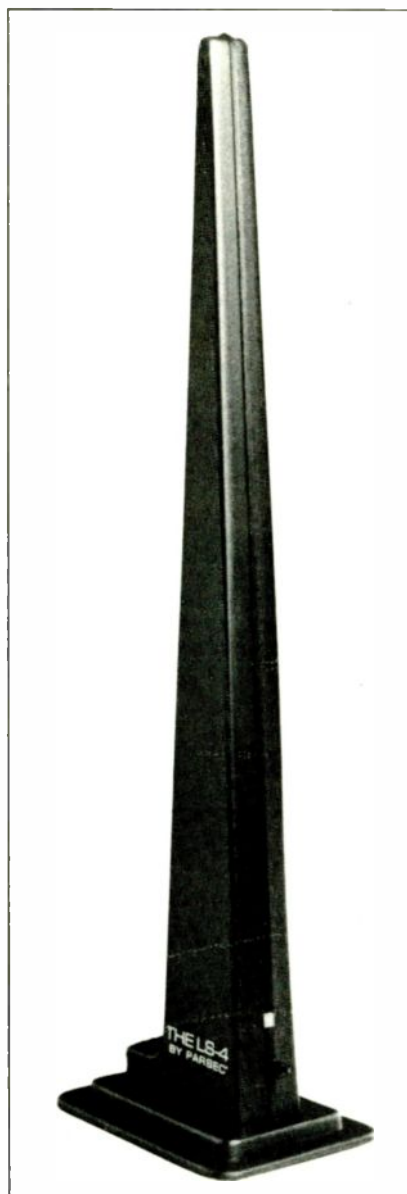
Colonial oak laminate finish with adjustable VCR shelf; large TV area and adjustable component shelving; clear tempered glass door; twin double doors for storage area below. 47.25 x 48.13 x 15.5 in ... \$159

## 79037 Entertainment Center

Rounded-rail door and top rail; accommodates larger TV's; component area; spacious lower storage area with shelf. 66.5 x 48.5 x 14.75 in; TV area 23.5 x 27 x 14.75 ..... \$139

## 79018 Entertainment Center

Finished in bartonwood laminates with tempered glass doors. Features adjustable component shelf and a concealed storage area; TV shelf fits most 19" monitors and the bottom shelf will accommodate a VCR and tapes; solid wood door pulls. 40.75 x 47.88 x 15.5 in ..... \$119



Parsec LS-4

## 52192 Audio Cabinet

Features tempered, clear-glass lift-lid and door; black-pebble-grain laminate shelves; adjustable middle shelf; album and/or accessory storage spacel dual-wheel casters; bartonwood laminate. 37.74 x 19 x 15.75 in; component area: 13.12 x 17.62 x 14.36 in \$89

## PARSEC

### The FM Dish

Features GaAsFET Gallium Arsenide Field Effect Transistor; electronic tuning; multipath rejection; Azimuth markings on base ..... \$219

### The LS-4 Indoor FM Antenna

Features GaAsFET Gallium Arsenide Field Effect Transistor. Displays omnidirectional characteristics when placed in a vertical position; displays directional characteristics when placed in a horizontal position ..... \$59

## PIONEER

### BSS-F1 Bodysonic Surround-Sound Chair

Swiveling black leather chair designed for surround-sound applications. Features 3.2" diaphragm stereo



speakers in headrest; dynamic damper bass drive unit mounted in seat; remote control mounted under seat; RCA jack; headphone jack. 40 x 38 x 38 in. \$2,000

### CU-AV100 Smart Remote Control

Remote controls all Pioneer components on the system remote network. Features learning capability; 214-command capacity; 68 keys; 3 slide switches; 30-60 minute memory backup for changing batteries ..... \$125  
CU-AV70. As above with 65 keys, 70-command capacity ..... \$85

### JA-RF5 RF Modulator

Converts composite (baseband) video to RF so that video from an A/V system can be viewed on a TV without a video input. Features selectable output frequency; video/TV switch for VHF antenna loop-through; 5-pin DIN connector and "F"-type for video in/TV out ..... \$50

### JD-M100 6-Disc Magazine

Additional 6-disc magazine for use with any Pioneer CD changer. Includes a complete set of labels and hard plastic storage sleeve. Available in 5-piece master carton ..... \$15 ea  
JD-M108. As above for CD-3's ..... \$15

## PREMIER BY SUMIKO

### Catalyst Interconnect Cables

Designed for low series inductance; zero audio

transfer loss; transposed twin axial internal wire for low magnetic interference; 1-end grounded shield; gold-plated connectors; connection points machined from solid body; teflon dielectric. Custom lengths available on request.

0.5 meter stereo pair ..... \$50  
1.0 meter stereo pair ..... \$60  
2.0 meter stereo pair ..... \$80

### VTA-16 VTA Adjustment Device

To adjust tonearm height even while record is playing; tooled to complement MMT and other arms with 16-mm mounting posts ..... \$85

### PIB-1 Interface Box

Terminates any standard tonearm JIS plug to gold-plated female RCA's; eliminates drag on turntable suspension; electrically neutral interface for interconnect cable ..... \$80

### HS-12 Universal Headshell

Solid magnesium; double-lock pins; adjustable azimuth; linear-crystal oxygen-free copper wire; high-rigidity mounting-hardware kit ..... \$32  
HS-29. LC-OFC headshell wires used in HS-12 \$12

## PROTON

### Equipment racks for audio systems

R12. Contains enough surface area to accommodate 6 components and several records; constructed of wood; protective glass door; comes with casters \$259

R11A. Contains enough surface area to accommodate up to 5 components and several records; constructed of wood; comes with casters ..... \$239

## REALISTIC

### Walnut-Veneer Audio Cabinet

Tempered glass door; hinged top, heavy-duty swiveling casters; software storage space; unassembled. 45 x 18.37 x 17.5 in ..... \$130

### Hickory-Grained Audio Cabinet

Full-length tempered glass doors; hinged top; 3 adjustable shelves; storage space for LP's and tapes; metal supports; heavy-duty swiveling casters; unassembled; hickory-grained vinyl finish. 37.5 x 21.25 x 17.25 in ..... \$120

### Tape Control Center

Connects to tape-monitor loop to allow use of three tape decks for monitoring, recording, and dubbing; with illustrated manual ..... \$25.95

### Micro Head Cleaner

Nonabrasive tape in microcassette-type shell cleans tape path of microcassette machines ..... \$2.99

### Mini and Micro Tape Tray

Holds 12 minicassettes or microcassettes; smoke-tinted cover ..... \$2.49

### Tape Recorder Maintenance

Lighted Demagnetizer. 3.5"; for all tape decks \$13.95

Universal Demagnetizer. For all tape decks; 2 angled tips ..... \$9.95

Cassette Head Demagnetizer. In cassette shell; works in 1 sec; with battery ..... \$9.95

Demagnetizer/Cleaning Kit. Demagnetizer cassette, probe, mirror, solution, cloth ..... \$5.95

Cleaner Cassette. Felt pads clean heads, pinch roller, capstan; with 0.5 oz of fluid ..... \$3.99

8-Track Cleaner. Cleans heads and capstan rollers; nonabrasive ..... \$2.99

Cassette Head Cleaner. Removes oxide from head and capstan; with fluid ..... \$2.69

Head-Cleaning Kit. With 6-dram bottle of Freon TF solvent and 6 foam swabs ..... \$2.59

Pro-Style Solvent. Freon dissolves dirt and oxides on heads; 2 oz ..... \$2.39

Head-Cleaning Spray. Removes dirt and oxide without residue ..... \$1.99



# ACCESSORIES

**8-Track Cleaner.** Removes oxide from heads; non-abrasive. \$1.99  
**Cleaning Swabs.** Reusable lintless foam; 10 pack. \$1.95  
**Cassette Head Cleaner.** Nonabrasive tape in cassette shell. \$1.89  
**Recorder Cleaning Kit.** 2 1.25-oz bottles of cleaner and lubricant; 10 swabs. \$1.69  
**Cleaning Cloths.** To clean tapes and equipment dustcovers; 4 pack. \$1.49  
**Cleaning Sticks.** Cotton-tipped 6" wood sticks; 100 pack. \$1.29  
**Head-Cleaner Solution.** Cleans heads, tape guides, capstans, metal parts; 2 oz. \$0.99  
**"Nonslip" Solvent.** Reduces slipping of idler wheels, belts, etc.; fast drying; won't harm rubber. \$0.99

## Cassette Accessories

**Tape Splicer.** Chrome cut/trim lever; with splicing tape and instructions. \$6.49  
**Repair Kit.** With 32-page manual, housing, labels, splicing materials. \$4.99  
**Hand-Winder.** For winding cassettes. \$3.99  
**Index Cards.** Fits standard cassette boxes; 20 pack. \$1.19  
**Tape Housing.** With 24" leader tape and instructions. \$1.19  
**Cassette Boxes.** Hinged; clear plastic; 3 pack. \$1.19  
**Index Labels.** Adhesive; 6 each of red, yellow, blue, green; total 24. \$0.99  
**Molded Mailers.** Meets first-class postal regulations; 3 pack. \$0.89  
**Budget Mailers.** Cardboard boxes with labels; meets first-class postal regulations; 6 pack. \$0.79

## Open-Reel Accessories

**7-Inch Metal Reel.** With box. \$6.95  
**7-Inch Plastic Tape Reel.** \$1.39  
**Tape-Reel Holders.** Fits most recorders; 2 pack. \$1.19  
**5-Inch Plastic Tape Reel.** \$0.99  
**3-Inch Plastic Tape Reel.** With index and timing chart. \$0.69

## General Tape Accessories

**Bulk Eraser.** For all tape except metal and videotape. \$15.95  
**Editing Block.** Aluminum splicer for all tape sizes with 90x and 45x cutting guides; with blade and mounting strip. \$3.99  
**Foot Switch.** Remote-control on/off switch for typing from dictation; submini plug. \$2.99  
**Universal Splicer.** Dual guides; levers secure tape; with blade and instructions. \$1.99  
**Phone Pickup.** Suction cup attaches to handset; 1/8" mini plug; may be incompatible with electronic phones. \$1.99  
**Sensing Tape.** Metallic tape stops or reverses recorders with contact or photosensitive systems; 100" roll. \$1.99  
**Leader Tape.** 7/32 x 200" roll. \$0.99  
**Splicing Tape.** 100" roll; 7/32", 3/8", or 1/8" widths. \$0.79

## RECOTON

### Beammaster FM Antenna

Beammaster FM-100 powered omnidirectional FM antenna. Features obelisk shape; vertical or horizontal positioning; built-in amplifier; adjustable from 0-25 dB; can boost signals up to 125 times. 17.23 x 4.125 in. \$49.95

### CD-23 CD Mounting Bracket

Mounting bracket for portable CD players when used in cars. Features cushioned shock-absorbing platform; easy installation; can be mounted on-dash, under-dash, or on a center console. Comes with adjustable top and side brackets. Fits all portable CD players. \$22.95

### 3-Inch CD Adaptor Ring

Adaptor for playing 3-inch CD singles in standard-size or table-top players. Sold in pairs. \$3.99/pr

## REVOX

### B209 Easyline Infrared Multi-Room Remote

Multi-room remote system controls volume, treble, bass, and balance of loudspeakers individually in each room. While one source plays in main listening area, different music source from main system can play simultaneously in remote rooms. Allows connection of independent music source in each remote room; system requires power amp, speakers and B209 module in each remote room. \$995

### B208 Hand-Held Infrared Remote

Specifically designed to work with new generation of Revox units but can be used on all Revox remote controllable components. Keypad has over 55 functions; light indicator confirms selected commands. \$160

## RUSSOUND/FMP

### RD-4 Speaker Control

Switchbox for controlling 4 stereo speakers. Combination power switch, volume control and transformer. Features individually programmable outputs; automatic imp protection; 4 ohm speaker protection; 100 W/ch max power handling; separate left and right grounds. 17 x 5 x 2.13 in. \$259.95

### AV-4 Audio/Video Switcher

Accommodates up to 4 VCR's or 3 VCR's and one A/V processor. Features passive operation; separate audio and video switching; dubbing, editing, and processing capability; compatible with all VCR's. 17 x 3 x 1.75 in. \$199

### MA-5 Matrix Recorder/Processor Audio Switch

Allows connection of up to 4 tape recorders and processors; can make 3 copies of a tape, or 4 copies of external source. \$89.95

### VC-1 Remote Speaker Control

Volume control for 1 pair of speakers; portable; 10-position switch; 10-autostep transformer. \$75

### ALT-2 Wall-Mount Stereo Volume Control

Features mechanically-shielded box; plate; knob. Depth < 2". \$47.95

## SAEC BY ANALOG EXCELLENCE

### ULS-3X Universal Headshell

Antiresonant ceramic headshell. Made of sintered multi-crystallized aluminum oxide of >99.7% purity. 18 g. \$85  
**ULS-2A.** Composite headshell. 9.5 g. \$28

### IX-1020 Interconnect Cable

Separate parallel OFC cable; RCA plugs treated with rhodium (platinum). \$40

### CX-5006A MC Pickup Cord

Separate parallel OFC cable; terminals treated with rhodium (platinum); imp 20-120 ohms; 1.5 m. \$52  
**CX-5006B.** As above except imp 1-10 ohms. \$52

## SANYO

### RBUI Universal Remote Control Transmitter

Programmable infrared remote control uses an 8-bit microprocessor to "learn" and use the infrared codes from as many as three different remote control products. Features multi-function controls to execute up to 87 functions from a 36-button keypad; 5 LED indicators monitor "learn" mode operation; pre-programmed to work with current Sanyo remote control audio/video components; color-coded controls for easy operation. Uses 4 AA batteries. \$100

## SCOTCH

### Record Care System

3-way record protection-dust cleaning, static removal

and friction reduction with Sound Life fluid. Applicator attaches to turntable spindle to meter a controlled amount of fluid onto pad.

**Total System.** \$27.99  
**Sound Life replacement fluid** \$8.19

### Turntable Dust Guard

Conductive foam turntable pad reduces external electrostatic field to repel airborne dust. \$6.99

### ERK-130 Cassette Edit/Repair Kit

Contains precision splicing block; spindle for manually winding cassette tape; 6 polyester picks (adhesive tipped for retrieval of tape ends lost in housing); 6 130-ml splicing tabs; detailed instruction booklet. \$3.59

**SK-22.** 12.5 ft of 1.9 mil polyester splicing tape in dispenser kit. \$2.49  
**#41.** 0.5" x 150" splicing tape. \$1.20

### Re-Label Tape

0.75" x 700" write-on white tape supplied in dispenser. For labeling all types of audio cassette. Removable. \$1.99

### S-C-HC Cassette Head Cleaner

Cassette head cleaner. \$1.89

## SENTRY INDUSTRIES

### SENAUD42 Deluxe Cabinet

Deluxe woodgrain finish with 4-cushioned feet protect surfaces; each drawer holds 14 tapes or an aggregate of 42 cassette tapes; can be stacked; master carton 3.33 cubic feet; 37 lb. \$15

### SENH05080 Mini-Speaker System

Two mini-speaker system fits all personal stereos; wedge style increases bass response. Includes 3 ft. cord with 3.5mm stereo connector. 4.37 x 3.0 x 2.62 in. \$13

### SENAUD33 Promotional Cabinet

Deluxe woodgrain finish with cushioned feet to protect surfaces; each drawer holds 11 tapes with boxes or 16 tapes without boxes; can be stacked; master carton 4 cubic feet; 40 lb. \$11

### SENA30WD Audio Cassette Deck

Deluxe woodgrain finish with dividers to hold tapes securely; wall mounting; can hold 30 cassette tapes; master carton 3.46 cubic feet; 53 lb. \$9.95

## SERVICE MANUFACTURING

### Carrying Cases

**1354.** Nylon video camcorder bag for VHS Camcorder, Sony Beta Movie and most other video camera outfits and accessories. \$100  
**1353.** Nylon video camcorder bag for most VHS-C and 8 mm video camera outfits and accessories. \$80  
**1306.** Nylon video camcorder bag for many 8 mm and compact video cameras. \$60  
**WM-1.** Shock protected Regency nylon personal stereo waist pack with extra wide adjustable waist belt. \$10  
**SC-1.** Padded vinyl universal carry case for scanners, walkie-talkies, and portable telephones. \$9

### CD Carrying Cases

**CD132.** Classic carrying case in deluxe flannel-like material holds 32 single or 16 double CDs in individual compartments. \$30  
**CD143.** Same as above in deluxe leather-like vinyl. \$28  
**CD118.** Classic carrying case in deluxe flannel-like material holds 18 single or 9 double CDs in individual compartments. \$25  
**CD119.** Same as above in deluxe leather-like vinyl. \$21  
**CD216.** Regency nylon carrying case holds 16 single or 8 double CDs in individual compartments. \$20

# ACCESSORIES

CD206. Nylon case holds most portable CD players with battery pack and CD's. . . . . \$13  
 CDW-1. Regency nylon compact wallet protects 6 CDs in individual pockets without jewel boxes; velcro mounting strips included. . . . . \$12

## Cassette Carrying Cases

1860. Shock protected "Softie" patented dual purpose Regency nylon double sided carrying case for 60 boxed or 120 unboxed audio cassettes. . . . . \$30  
 1834. Carry case with patented dual purpose insert holds 30 boxed or 60 unboxed cassettes; expandable front pocket with velcro closure; adjustable double buckle shoulder strap; leather-like vinyl. . . . . \$26  
 1824. Shock protected patented dual purpose case in deluxe flannel-like material for 30 boxed or 60 unboxed audio cassettes. Expandable front accessory pocket. . . . . \$25  
 1834. Same as above in deluxe leather-like vinyl. \$26  
 1805. Soft-style, padded, nylon case holds 30 boxed or 60 unboxed cassettes. Includes padded carry handles and shoulder strap. . . . . \$25  
 2040. Deluxe padded vinyl library case holds 60 boxed or 120 unboxed audio cassettes. . . . . \$22  
 2060. Padded, vinyl, double-sided case holds 60 boxed or 120 unboxed cassettes. Hi-tech design \$20  
 1804. Padded nylon carrying case with dual purpose insert. Holds 30 boxed or 60 unboxed audio cassettes. . . . . \$18  
 1822. Shock protected patented dual purpose carry case in deluxe flannel-like material for 12 boxed or 24 unboxed audio cassettes. Expandable front accessory pocket. . . . . \$15  
 1832. Same as above in deluxe leather-like vinyl. \$16  
 1802. Soft, padded nylon case holds 12 boxed or 24 unboxed cassettes. . . . . \$15  
 2042. Deluxe padded vinyl attache case holds 24 boxed or 48 unboxed audio cassettes. . . . . \$14  
 2022. Deluxe padded denim-look vinyl attache case for holding up to 24 boxed, or 48 unboxed audio cassettes. . . . . \$14  
 2061. Padded vinyl attache case for 24 boxed or 48 unboxed audio cassettes. . . . . \$13  
 2051. Padded vinyl attache case for 24 boxed or 48 unboxed audio cassettes. . . . . \$13  
 1802. Padded nylon carrying case with dual purpose insert. Holds 12 boxed or 24 unboxed audio cassettes in individual compartments. . . . . \$13  
 2045. Deluxe padded vinyl attache case holds 12 boxed or 24 unboxed audio cassettes. . . . . \$11  
 2025. Padded, vinyl, attache case holds 30 boxed or 60 unboxed cassettes. . . . . \$11  
 1820. Shock protected carry case in deluxe flannel-like material with clear front window; will hold 10 boxed audio cassettes. . . . . \$10  
 2063. Padded, vinyl, case holds 12, boxed or 24 unboxed cassettes. . . . . \$10  
 2053. Padded vinyl carrying case for 12 boxed or 24 unboxed audio cassettes. . . . . \$10  
 1800. Padded, nylon cassette pouch holds 10 cassettes and/or most popular personal stereo/stereo cassette players. . . . . \$10  
 1800. Shock protected nylon cassette pouch holds 10 cassettes and/or most popular personal stereo/stereo cassette players; adjustable shoulder strap doubles as a waist belt. . . . . \$9  
 1906A. Padded Regency nylon wallet holds 6 cassettes in individual compartments. . . . . \$8  
 1906. Cassette wallet holds 6 unboxed cassettes in padded enclosure. . . . . \$8

## SHURE

### M64A Preamplifier

Fixed-gain stereo preamplifier with switch-selected phono, tape EQ; for use with unequalized amplifier inputs, mic's, as buffer amp in "flat" position; on-off switch; two phono jack inputs; 120 V AC 50/60 Hz, 5 W. . . . . \$102

### TTR-117 Test Record

Test record for testing cartridge response under different conditions. . . . . \$16.50

## SFG-2 Stylus Force Gauge

Allows precise setting of optimum stylus force for maximum trackability and sharply reduced wear on records and stylus tip. . . . . \$9.25

## SIGNET

### Cleaners

SK315. Auto CD cleaning system. Combines wet and dry cleaning automatically. After a timed wet cycle, the pad retracts and chamois-type pad dries and buffs disc. Auto shut-off. Includes cleaning fluid and 4 AA batteries. . . . . \$60  
 SK316. Replacement fluid and pads for SK316. . . . . \$15/set  
 SK305. Electronic stylus cleaner. . . . . \$40  
 SK306. Replacement fluid for SK305. . . . . \$5  
 SK301. Liquid stylus cleaning formula. . . . . \$6  
 SK302. Contact cleaner/restorer with 3-way action. Removes oxidation, leaves protective coating to slow-down future oxidation, serves as a contact enhancer. Tools allow thorough cleaning of plugs and jacks. For both audio and video components. . . \$25  
 SK312. Compact Disc cleaner. Features soft leather chamois for surface dust and cleaning solution with optical quality cleaning cloths for tougher dirt. . \$25  
 SK-310. Record cleaning system with low-residue cleaning and humidifying solution, convenient storage base. Unidirectional brush reduces static charges on vinyl record surface. . . . . \$30  
 SK309. Replacement fluid for SK310 and other record-cleaning systems to reduce residues. . . \$5  
 SK309/500. 500 ml bottle of cleaning agent for SK310. . . . . \$20  
 SK307. Audio cassette cleaner tape. Features philips-type cassette with alternating wet/dry cleaning system and cleaning fluid. . . . . \$15

### Cables

SK481. CD high definition LC-OFC interconnect cable; 1.0 meter. . . . . \$60  
 0.5 meter. . . . . \$50  
 2.0 meter. . . . . \$70  
 VK410. Maximum Transfer video interconnect. Features multi-strand wide-bandwidth center conductor surrounded by as thick-foam dielectric for low capacitance and extended high-frequency response. 2 shields of dense copper braid and conductive polypropylene layers insures noise-free transmission of video signal. Gold-plated male-to-male RCA connectors. 1- and 3-meter lengths. . . . . \$30-\$40

VK411. As VK410 with gold-plated Quick-F to Quick-F connectors. 1- and 3-meter lengths \$30-\$40  
 VK412. OFC stereo audio/video cable; gold plated RCA to RCA; 3.0 meter. . . . . \$65  
 2.0 meter. . . . . \$60  
 1.0 meter. . . . . \$55  
 VK212. Economy OFC stereo audio/video cable; gold plated RCA connectors; 3.0 meter. . . . . \$30  
 2.0 meter. . . . . \$25  
 1.0 meter. . . . . \$20  
 SK402. Litz wire interconnector; low capacitance/low resistance; 10 meter. . . . . \$99  
 1.5 meter. . . . . \$45  
 1.0 meter. . . . . \$40  
 0.5 meter. . . . . \$35  
 SK403. High-quality all-purpose OFC interconnect cable with ground wire; 2.0 meter. . . . . \$18  
 1.5 meter. . . . . \$17  
 1.0 meter. . . . . \$16  
 0.5 meter. . . . . \$15  
 SK485. LC-OFC headshell wire set. . . . . \$15  
 VK421. Gold plated RCA to RCA barrel connector \$7  
 VK422. Gold plated F to F barrel connector. . . \$7  
 VK423. Gold plated female RCA to male F connector. . . . . \$6  
 SM500. Music line maximum transfer speaker cable. . . . . \$1/ft  
 SM20. Music line gold plated terminal end speaker wire; 20 ft. . . . . \$40/pr  
 SM15. Same as above 15 ft. . . . . \$32/pr  
 SM10. Same as above 10 ft. . . . . \$26/pr

HT18. HiTec 16 gauge speaker wire. . . . . \$22/ft  
 HT16. HiTec 18 gauge speaker wire. . . . . \$15/ft  
 GB50. Gold plated banana plugs; w/red/black insulators. . . . . \$2.00/ea  
 GS200. Gold plated spade lugs; w/red/black insulators. . . . . \$1.50/ea  
 GP200. Gold plated terminal pins; w/red/black insulators. . . . . \$1.50/ea

### Miscellaneous Accessories

MK12T Moving Coil Transformer. MC transformer to match low output MC cartridges to conventional magnetic phono inputs; selectable impedance. \$350  
 MK10T. Same as above without selectable impedance. . . . . \$130

## SME BY SUMIKO

### SME Tonearm Cable

Van den Hul 2-meter tonearm interconnect cable with right-angle connector. . . . . \$275

### SME FD IV

Provides fluid damping and arm height/VTA adjustment for the Series IV tonearm. . . . . \$275

### Tonearm Cable

Van den Hul Model 501 mono-crystal twin axial cable with right-angle metal DIN plug and gold-plated RCA connectors; separately terminated electrostatic shields. . . . . \$175

### Headshell Wires

Each lead has 7 strands of silver litz wire terminated to gold-plated clips designed for max contact with cartridge pins. . . . . \$24

### SME Phono Plugs

Phono plugs. . . . . \$24/pr

### P 925 Headshell Spacer

Increases arm-to-record clearance without compromising rigidity; matches SME headshell; raises arm 0.12" when reset for previous stylus rake angle. \$18

## SONEX

### SONEX Acoustic Foam

Sound-absorbing acoustic foam sheets kill background noise and control room acoustics by absorbing peak frequencies caused by standing waves, resonances, slap echoes, etc. Anechoic-type wedge shapes traps and diffuses sound for the same live-end/dead-end effect used in recording studios.

Juniors. 2"-thick 24" x 24" sheets. Box of 4 sheets. . . . . \$54.00

## SONRISE CABINET SYSTEMS

All cabinets come in a choice of walnut or oak (medium, light, or dark stain)

### SG-11A Swivel Audio Cassette Holder

Dual-sided holder for 48 tapes. 14.88 x 10 x 6.75 in. . . . . \$69.95

### SG-11AL Stacking Audio Cassette Holder

Holds 40 tapes horizontally, each on its own shelf; 13.88 x 19.38 x 3.75 in. . . . . \$69.95

### SG-11DL Stacking Compact Disc Holder

One-sided unit holds 40 discs horizontally, each on its own shelf; 9 x 21.5 x 6 in. . . . . \$69.95

### SG-11LP Stacking Holder

Stacking holder for laser video discs or LP's. Holds 75 discs or LP's vertically; 14.5 x 14.5 x 13 in. Available in choice of high-gloss black, white, or grey lacquer finish. . . . . \$69.95

### SG-11D Swivel Compact Disc Holder

Dual-sided holder stores 40 discs horizontally, each on its own shelf; 10 x 11.25 x 11.25 in; may be ordered without the swivel for stacking purposes. . . \$69.95



# ACCESSORIES

## SG-D1 Stacking Compact Disc Holder

Holds 45 single compact discs vertically, or a mix of single, double and triple discs; 9 x 21.5 x 6 in; choice of high gloss black, white, or grey lacquer . . . \$49.95

*All audio systems have 1" shelves, fixed shelf at 13.5" with fms to accommodate LP's, and hidden casters. Come in a choice of walnut, oak, silkwood, rosewood, highgloss black/white/grey lacquer.*

## E-1 Dawning

Audio cabinet with 3-adjustable shelves; 1 fixed-shelf; exterior height of 49" . . . \$392

## SM-2 Morning Star

Audio cabinet with 2 adjustable shelves, 1 fixed shelf; exterior height of 42.5" . . . \$360

## SA-1 First Light

Audio cabinet with adjustable shelf and fixed shelf exterior height 34.5" . . . \$312

## SONY

### AVH-555ES Source Selector

Audio/video source selector . . . \$450

### XP-CD7 CD Cleaner

Automatic cleaner for compact discs . . . \$59.95

### Portable CD Accessories

SRS-150. Self-powered portable speakers . \$190/pr  
RM-DM1K. Remote Commander and receiver . . . \$49.95

CPM-100P. Car mounting plate . . . \$49.95

DCC-120. Car battery cord . . . \$36.50

CPA-1. Car cassette adaptor allows hookup of a portable CD player to a car head unit . . . \$29.95

CK-CD6. Carrying case designed for portable CD players . . . \$19.95

CK-CD01. Soft carrying case for portable CD players . . . \$12.95

## SOUNDRUNNER

### Sound Runner Oxygen Free Speaker Cables

Unplated high density copper strand cables.

8108. 8 gauge; stranding 133 x 29 . . . \$1.50/ft

8110. 10 gauge; stranding 238 x 34 . . . \$0.99/ft

8112. 12 gauge; stranding 168 x 34; teflon version available . . . \$0.69/ft

8116. 16 gauge; stranding 67 x 34; teflon version available . . . \$0.49/ft

## STANTON

### 310B Professional Phono Preamp/Equalizer

Designed to correctly interface all Stanton-selected magnetic cartridges for optimum playback of records and calibration of audio systems. Features universal mounting brackets; selection of flat or NAB potemphases curves; switchable rumble filter; individual gain adjust; high frequency responses; capacitive-cartridge loading trim. Can be used in balanced and unbalanced modes and in-phase and out-of-phase mix of L and R ch for mono reproduction of older records. Output/ch +20 dBm max; gain/ch adjustable 30-60 dB; balanced or unbalanced output; output source imp 5 ohms, designed for loads 150 ohms or higher; FR ±0.5 dB from 20-20,000 Hz in Flat or Nab positions; FHD -0.05% at 20 dBm; rumble filter 3 dB knee at 28 Hz, -35 dB at 5 Hz; max input level at 1,000 Hz 120 mV; input resistance 47 kilohms; input capacitance 15 pF switchable in 50 pF steps to 350 pF max; ch sep 60 dB min 20-15,000 Hz. RCA phono jacks (input), 5-terminal barrier strip (output). 7.25 x 2.5 x 5 in . . . \$280

### RC5-Plus Record Cleaner

Kit contains cleaning fluid that safely dissolves oily film, loosens microdust, other debris, leaves no residue. Contains antistatic ingredient. Comes with polarized brush and conductive handle. Can clean up

to 300 record sides . . . \$17

2-oz refill . . . \$6

8-oz refill . . . \$10

RC4 2-oz refill . . . \$4

RC4 8-oz refill . . . \$9

RC4 replacement applicator pad . . . \$9

1-oz stylus cleaning fluid . . . \$3

### ARC-5 Carbon Fiber Brush

Safe, fast and effective method of record care, eliminates static build up. Manufactured from aerospace high-elasticity carbon fiber, each filament is strong and flexible to reduce breaking or shedding on the record. Contains 1,000,000 filaments, each filament is 0.0003" (8 microns) diameter, allowing filaments to track record grooves like a diamond stylus, removing dust particles and static charges \$15

SC4 Mini Stylus Cleaning Kit . . . \$8

## SUMIKO

### FB-1 Fluxbuster

Eliminates gradual magnetization of phono cartridges; designed to improve sonic performance in dynamic range, imaging, high-end linearity . . . \$250

### AC-11 Stylus Cleaner

All-in-1 brush and bottle . . . \$16

### Rigid Mounting Kit

Tools and hardware for mounting cartridges to tonearm . . . \$10

## SYMDEX

### Tonearm Adaptor

Adaptor that converts 5-pin phono plug to Tiffany RCA connectors to allow use of high quality interconnect cable between the tone arm and preamplifier. Uses copper wire in Teflon sleeving, gold Tiffany connectors. Includes mounting hardware . . . \$185

### Spikes

Adjustable speaker feet that mount integrally into the base of speakers or wooden speaker stands for rigid coupling to the floor. Minimize speaker/floor junction area, with best results on rugs and carpets. Level adjustment compensates for uneven floors. Includes drill bit. Sold in sets of 8 . . . \$40/set

## TALWAR

### Audio Cabinets

All Talwar audio cabinets are hand-finished wood, and fitted with solid-brass hardware. Feature 1" solid hardwood sides; structurally reinforced joints; tempered and beveled glass; 8-receptacle power supply with overcurrent protection; air columns; wire management system with wells for interconnects; removable back; heavy-duty piano casters; full extension drawer for tapes and accessories; adjustable shelves. Custom-made units with different dimensions, marble tops, and exotic wood available

K-270 Low-boy, 3-sections, solid red oak, 3 adjustable shelves. 70.5 x 30 x 20 in; 320 lb . . . \$5,610

C-270. Solid cherry . . . \$6,340

M-270. Solid mahogany . . . \$6,690

W-270. Solid walnut . . . \$7,420

K-420 Standard Unit. Constructed of solid red oak. Features three fully-adjustable shelves. 24 x 48 x 20 in; 140 lb . . . \$2,010

C-420. Solid cherry . . . \$2,270

M-420. Solid mahogany . . . \$2,390

W-420. Solid walnut . . . \$2,660

K-320 Standard Unit. Constructed of solid red oak. Features two fully-adjustable shelves. 24 x 36 x 20 in; 120 lb . . . \$1,840

C-320. Solid cherry . . . \$2,090

M-320. Solid mahogany . . . \$2,200

W-320. Solid walnut . . . \$2,440

K-220 Standard Unit. Solid red oak, 1 adjustable shelf. 24 x 30 x 20 in; 100 lb . . . \$1,760

C-220. Solid cherry . . . \$1,980

M-220. Solid mahogany . . . \$2,090

W-220. Solid walnut . . . \$2,320

### Cabinet Accessories

#### Rack Mounting Angles

24" with hardware for 5 components . . . \$64

36" with hardware for 8 components . . . \$98

48" with hardware for 10 components . . . \$129

### Cabinet Lights

30" long interior light . . . \$160

22" long interior light . . . \$110

### Additional Shelves and Drawers

Wood shelf, 16 x 20 x .75 in . . . \$78

Glass shelf, 16 x 20 x .5 in . . . \$102

Play-free sliders for turntables . . . \$129

4"-deep drawer for cassettes, accessories . . . \$119

6.5"-deep drawer for CDs, video tapes . . . \$167

### SVC-1 Vibration Isolator

Isolation base with air springs to decouple turntable from air-borne and structure-borne vibrations. Features one 24.25 x 20.25 x 1.5 in. polished granite supported by air mounts. Requires bicycle pump or compressor to pump air into unit. Resonant freq 2.9 Hz; max loads 200 lb; 24.5 x 3.5 x 20.25 in; 95 lb . . . \$1,494

### PLF-2 Power-Line Filter

Eliminates subtle distortion caused by equipment interaction as well as power line noise and hash. Functions as a safety device for excessive voltage spikes and can be plugged between affected component and outlet. Features active-tracking circuits making it insensitive to load impedance and allows users to plug in any combination of components without distortion, power line noise, or loss of signal strength . . . \$695

### SN-1 Static Neutralizer

Eliminates electrostatically-charged air particles that cause dust and debris accumulation on records. Generates positive and negative ions simultaneously. Operates continuously while record is playing. Fits onto turntable platform or clips onto dustcover. Power consumption 0.5 watts; discharges 5000 volts to safe levels (<100 V) within 2 seconds. 6 x 1.5 x 1.5 in; 3 lb . . . \$368

### Front Panel Remote Switch

Allows control of the power strip to be turned on and off from the front panel of the cabinet using a heavy-duty relay . . . \$168

### FVS-1 Fan Ventilation System

Features rack-mountable panel; 1 fan; filter; vibration isolator; all mounting hardware. Noise level 26 dBA; air flow 45 CFM. Black anodized steel panel. 19 x 6 x 2 in; 4 lb . . . \$169

Additional fan . . . \$62

### GB-12 Grounding Bus Bar

High purity copper bus bar eliminates hum induced by ground loops. Mounts into cabinet side. Includes hardware for 2 components. 1 x 12 x 0.25 in; 2 lb; 12" long . . . \$71

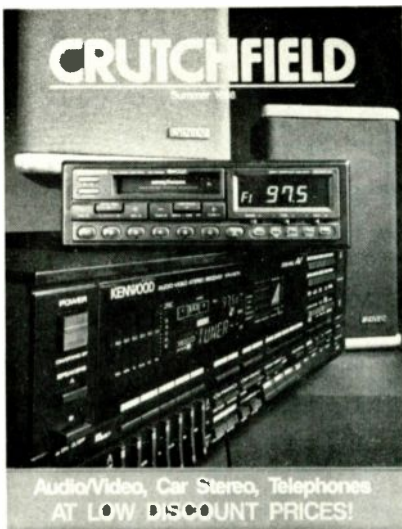
## TDK

### HD-11 Tape Deck Head Demagnetizer

Compact demagnetizer for open-reel or cassette decks. Color-coded LED's show charge status and operating mode. Plastic-covered pivoting tip discharges magnetic build-up on hard-to-reach heads . . . \$25.00

### HD-01 Cassette-Deck Head Demagnetizer

Battery-operated demagnetizer housed in cassette shell. Discharges magnetic build-up. Recommended for decks that activate transport without power . . . \$17.50



You'll find the most helpful shopping information in the 116 page Crutchfield catalog.

# FREE Stereo Catalog

Refer to the Crutchfield catalog before buying your next car stereo, home stereo, or video product:

- 116 pages of helpful articles, consumer tips, charts, and installation guides.
- Color photos, complete descriptions and technical specifications on hundreds of the finest brand name products.

You get more value shopping Crutchfield:

- Toll-free product advice, ordering, and customer service.
- 24 hour shipping.
- Absolute satisfaction guaranteed.
- Full 30-day return privileges.
- Discount prices on Sony, Pioneer, JVC, Teac, Proton, Advent, Clarion, Akai, Kenwood, Canon, AR, Infinity, Bose, and many more!

Call or send this coupon now for your FREE Catalog

## 800-336-5566

Be sure to mention *Stereo Review* when calling

Name \_\_\_\_\_

Address \_\_\_\_\_

Apt. # \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_ Zip \_\_\_\_\_

# CRUTCHFIELD

1 Crutchfield Park, Dept. SR, Charlottesville, VA 22906

## ACCESSORIES

### HC-1 Cassette-Deck Head Cleaner

Designed to keep recording heads clean by removing oxide particles. Fits into deck like ordinary cassette. Recommended for use after 8 hours of use . . . \$1.50

HCW-01. Wet-Type audio cassette head cleaner . . . . . \$8.99

### TEAC

#### E-2 Bulk Eraser

Erases 7" and 10.5" reels; pilot light; circuit breaker . . . . . \$100.00

#### E-3 Tape Head and Guide Demagnetizer

Removes residual magnetism . . . . . \$39.99

#### Carrying Cases

ACC-36. Briefcase holds 36 cassettes . . . . . \$29.95

CDC-20. Briefcase holds 20 compact discs . . . \$29.95

#### Storage Cabinets

CSC-36. Holds 36 cassettes . . . . . \$19.99

ASC-42DX. Holds 42 cassettes . . . . . \$18.99

#### RMK Recorder Maintenance Kit

3 oz of HC-1 tape-head cleaner, 3 oz rubber cleaner/conditioner, 3 oz stainless polish, cotton swabs, cleaning cloth . . . . . \$9.99

HC-3. Replacement head cleaner; 2 oz. . . . . \$4.89

RC-3. Replacement rubber cleaner . . . . . \$4.19

SP-3. Replacement stainless polish . . . . . \$4.89

#### Cassette Head Cleaners

QP-001. Wet system . . . . . \$8.99

2031. Dry system . . . . . \$1.59

#### Cables

SAC-215. 15-ft low-capacitance shielded dual RCA-RCA interconnect cable . . . . . \$7.79

2321. 25-ft coiled stereo headphone extension cable with .25" phone plug at 1 end and jack at other end . . . . . \$7.49

## TECHNICS

### SH-R700 Intelligent A/V Remote Control

Features LCD; programmable; displays for CD, TV, VCR, and audio equipment; for table-top or handheld operation . . . . . \$240

SH-R110. As above, preset for use with Technics audio equipment. Can be programmed for video \$120

### SH-8000 Frequency Analyzer

Features 31-point warble-tone generator and 5-setting sound-level meter; tweeter-protector switch; sensitive condenser mike; switchable (fast/slow) meter response speed for indication of transient or average peaks; battery check switch and meter indication; carrying case. FR 20-20,000 Hz  $\pm 2$  dB; frequency precision  $\pm 6\%$  or better; output level/imp 70 mV/1 kilohm; SPL measurement range 35-105 dB SPL (0 dB =  $2 \times 10^4 \mu\text{bar}$ ); power source DC 9 V; battery life 10 hrs continuous operation; 8.47 x 2.44 x 4.81; 2.2 lb . . . . . \$190

### SH-F101 Indoor Active Tuned FM Wing Antenna

Compact dipole for reception in strong signal areas. Features auto electronic tuning circuit; high gain; manual tuning knob; die-cast base; relative gain -2 db; figure-8 pattern; half-power angle 90x; output imp 75 ohm; standing-wave ratio 1.2 or less; power source DC 18 V; 19 lb. . . . . \$125

### SH-90S Universal/P-Mount Headshell Adaptor

Combination headshell/adaptor allows use of P-mount cartridges in universal-headshell arms . . . \$30

### SH-S1 Tripod Stand

Tripod stand for SB-F1 and SB-F2 speakers . . . \$50

SH-S2. Angle mount for SB-F1 and SB-F2 speakers . . . . . \$40

SH-S3. Suspension chain, bracket for SB-F2 speaker . . . . . \$30

## TRACKMATE

### TM 351 Compact Disc Cleaner

Safely cleans CD's inside the disc storage case to protect the delicate label/mirror side of the CD and is approved to package a Kodak optical lens cleaning solution. Features a patented, non-abrasive brush geared for effective radial cleaning . . . . . \$19.95

### TM 451 Record Cleaner

Dual-brush record cleaner removes dust, oils, and static electricity. Includes a stylus cleaner . . . \$14.95

### TM161 Cassette Cleaner/Demagnetizer

Features cleaning solution pen; cleaner/demagnetizer; jewelbox storage case . . . . . \$14.95

### TM301 CD Shield

Protects the recorded lable side of the CD from permanent damage. Contains 10 shields and free CD case . . . . . \$14.95

### TM 151 Cassette Deck Cleaner

Audio cassette deck cleaner cleans the entire surface of all tape-contact components, an area 175% greater than the tape path itself. . . . . \$9.95

## TREE DIMENSIONS

### CD-250 Cassette-CD-Video Storage Unit

Solid oak hand rubbed oil finish cabinet. Capacity for 260 CD's or 160 cassettes or 19 videos; 36 x 23.5 x 9-in; 16 lb. . . . . \$89.95

### CD-130 Cassette-CD-Video Storage Unit

Solid oak hand rubbed oil finish cabinet. Capacity for 130 CD's or 80 cassettes or 17 videos. 17.25 x 20 x 6.5-in; 7.5 lb . . . . . \$49.95

### V-30 Cassette-CD-Video Storage Unit

Solid oak hand rubbed oil finish cabinet. Capacity for 88 CD's or 54 cassettes or 34 videos; 17.25 x 20 x 6.5-in; 7 lb. . . . . \$39.95

CD-80. Same as above. Capacity for 88 CD's or 54 cassettes or 17 videos; 11 x 20 x 6.5-in; 5.7 lb \$39.95

CD-50. Same as above. Capacity for 54 CD's or 33 cassettes or 10 videos; 11 x 13.25 x 6.5-in; 5.5 lb. . . . . \$29.95

V-15. Same as above. Capacity for 44 CD's or 27 cassettes or 17 videos; 8 x 20 x 6.5-in; 3 lb . . \$19.95

## TWEEK BY SUMIKO

### Tweek Fluid

Reduces contact resistance and rectification effects in all metal-to-metal slip-on connections, such as cartridge leads, interconnects, speaker terminals. Designed to make metals act as if conductivity had been increased. Pre-cleaning needed only if contact is badly corroded or very dirty. Brush-on applicator

## PRICES LISTED

are manufacturers' suggested retail prices

(also referred to as *list* prices);

actual selling prices are set by individual dealers.

All prices are subject to change without notice.



bottle with 0.75 cc diluted in 6.25-cc isopropyl alcohol. Treats system 4 to 6 times. . . . \$18

### ULTRALINEAR BY ESS

#### UL 0020 Speaker Stands

Speaker stands for almost any speaker. Walnut grain . . . . . \$28/pr

### VANDERSTEEN AUDIO

#### OL-1 MC Pre-Preamplifier

Moving-coil preamp with variable loading and high-frequency roll-off. FR 1-500,000 Hz  $\pm 3$  dB; max output 2 V; THD 0.01%; IMD 0.01% IHF; 4 x 2.5 x 6 in; 5 lb . . . . . \$285

### VOGEL'S BY TEI ELECTRONICS

#### VE 2500 Speaker Base

3-position adjustable stand suitable for many speakers; sturdy impact-resistant ABS plastic; matte black; Max weight 55 lbs; min base 10 x 8 in . . . . . \$44/pr

#### VE 2000 Speaker Stand

Epoxy-finished metal speaker stands with continuously adjustable slope angle. Speaker may sit unattached on stand or can be mounted to stand with double-sided tape or screws. For speakers with base at least 8.5 x 7.5 in. Max weight 45 lbs. . . . . \$37

VE 3000. As above. max weight 66 lb . . . . . \$45

#### DUO 220 Speaker Bracket

Speaker clamping bracket designed for speakers whose rear-panel construction makes them unsuitable for mounting with conventional brackets. Speaker clamps between 2 foam-rubber-covered 85-mm discs. Pivot point approx 6" from wall. Max weight 45 lbs . . . . . \$34/pr

#### BEK 100 Speaker Bracket

Rotating speaker-mounting bracket can be fixed to virtually any wall. Can be adjusted vertically and horizontally. Black-finished steel supports 55 lbs. Bracket completely hidden by speaker . . . . . \$23/pr

#### Minor 50 Speaker Bracket

Wall bracket for mounting smaller speakers. Continuously adjustable through 180° horizontally and 30° vertically. Black-finished steel supports 10 lbs. Bracket completely hidden by speaker . . . . . \$12/pr

### YALE AUDIO

#### "Set-It-To-Here" Position Markers

Adhesive vinyl appliques indicate where controls should be set. Includes straight and curved arrows; arrows pointing to lines; pointing hands; switches; buttons in; buttons out. Useful for tone controls, equalizer sliders, tape-monitor buttons, processing loops, etc. Black, red, or white. . . . . \$6.49

### YAMAHA

#### YSR-20B Audio Cabinet

Fits all standard size components. Features glass lift top and doors. Black vinyl finish . . . . . \$400

#### SIC-10 Equipment Rack

Black metal, fits all standard 19" rack mount components. Features rack or shelf mounting (4 shelves provided). 77 lb . . . . . \$479

#### YVR-2B Video Cabinet

Holds up to 27" monitor and VCR. Features double glass doors. Black vinyl finish . . . . . \$300

#### YVS-1B Video Cabinet

Genuine oak cabinet holds up to 27" monitor and VCR. Features glass doors and casters. . . . . \$250

#### SPS-A1 Speaker Stands

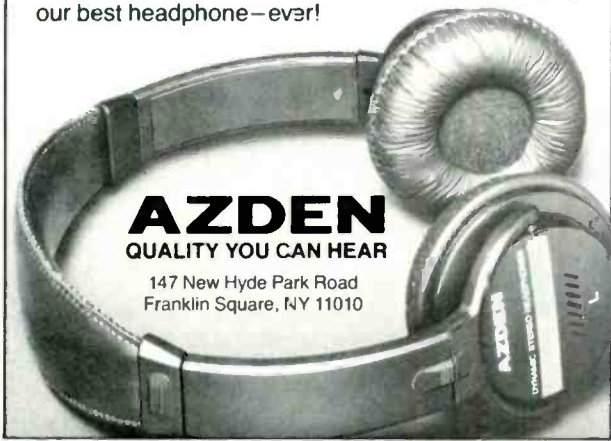
For NS-1. Feature dark wood finish . . . . . \$199/pr

## OUR BEST HEADPHONE— EVER!

Nothing in our past listening experience prepared us for our first audition of the new DM-90 Digital-Monitor headphones. We were absolutely stunned. We then took the sample to our "golden ear" dealers, and they too were amazed!

The verdict: THE DM-90 AT \$99.95 IS EQUAL TO, OR BETTER THAN ANY OTHER DYNAMIC HEADPHONE ON THE MARKET, AT ANY PRICE!

Some headphones can be said to have extended deep bass, others smooth midrange, some, transparent highs and superior dynamic range. Our new DM-90 has all of this, and more. It is unquestionably our best headphone—evër!



CIRCLE NO. 1 ON READER SERVICE CARD

Listen to  
the DM-90 at the  
following authorized  
dealers:

**CALIFORNIA**  
Fry's Electronics, Fremont • Down to Earth Stereo, San Diego • Wong's, San Francisco • Fry's Electronics, Sunnyvale • Digital Ear,ustin  
**COLORADO**  
Sound Shop, Colorado  
Bogs • Soundtrack, Denver • Sound Company, Grand Junction • Soundtronix, Pueblo  
**DISTRICT OF COLUMBIA**  
The Enlizer  
**FLORIDA**  
Sound Advice, All locations • BrandsMart, Miami • La Mirage, Miami  
**GEORGIA**  
Atlanta Stereo, Atlanta  
**IDAHO**  
Sound Pro, Boise • Inley's, Idaho Falls • Mel Quale's, Twin Falls  
**ILLINOIS**  
Muscraft, All locations • Stereo Systems, Aurora, Joliet, Naperville  
**MASSACHUSETTS**  
Cameras Inc., Arlington  
**MICHIGAN**  
Adray's, Dearborn  
**MINNESOTA**  
Campus Audio, Minneapolis  
**MONTANA**  
Sound Pro, Bozeman • Thirsty Ear, Bozeman  
**NEW HAMPSHIRE**  
Cuomos, Salem  
**NEW JERSEY**  
Wiz-Record Dept., All locations • Rand's Camera, Tom's River • Samm Sound, W. Caldwell • Consumer Electronics, Maple Shade  
**NEW YORK**  
Wiz-Record Dept., All locations • P.C. Richard, All locations • Albany Appliance, Albany • Focus Electronics, Brooklyn • Brothers Camera, Manhattan • Jems Sound, Manhattan • S&S Sound City, Manhattan • 6th Avenue Electronics, Manhattan  
**NEW MEXICO**  
Town Ctr., Clovis  
**PENNSYLVANIA**  
Sound Advice, Doylstown • Studio One, Erie • Gola Electronics, Philadelphia • Sounds Good To Me, Sharon  
**UTAH**  
Inleys, Logan, Ogden, Salt Lake City • Gadgets, Salt Lake City  
**WASHINGTON**  
Evergreen Audio, Bremerton • Stereo Shoppie, Tacoma  
**WYOMING**  
New Music Box, Laramie

## Want more product information?

Turn to page 208.

Whenever a product advertised in *Stereo Review* sounds interesting, turn up the volume!

Use our FREE INFORMATION SERVICE to get the detailed facts and figures you need to make sound purchasing decisions.

Manufacturers are only too glad to send you their literature . . . free and without obligation.

Just make a note of the Reader Service Number at the bottom of an ad, and circle that number on the FREE INFORMATION SERVICE card facing page 208. Fill in your name and address and drop the card in the mail. No postage necessary.

THE NEXT TIME AN AD TURNS YOU ON,  
TURN TO THE  
**FREE INFORMATION CARD!**

# POCKET STEREO



## AIWA

### HS-J800 Recording Pocket Stereo

Stereo recording capability complete with detachable one-point stereo mic. One hour quick charge battery system that includes AC adaptor/charger and an Aiwa



lead rechargeable battery for up to three hours playing time. Features built-in clock and AM/FM synthesizer tuner with LCD display; autoreverse; Dolby B; metal and normal tape selection; includes battery case, carrying case, and headphones . . . \$240  
HS-T800. Same as above without recording capabilities. . . . . \$220

### HS-J380 Recording Pocket Stereo

AM/FM recording pocket stereo with built-in clock and AM/FM synthesizer tuner and LCD display. Cassette unit with autoreverse; Dolby B; metal/normal tape selection. Includes headphones, belt clip and stereo mic. . . . . \$160  
HS-T380. As above, no recording . . . . . \$130

### HS-J360 Autoreverse Pocket Stereo

Pocket cassette player/recorder with AM/FM radio. Features stereo recording directly from built-in tuner, built-in electret mic; 3-way autoreverse; anti-rolling mechanism; auto stop; LED indicator lights for operation and battery strength. AC operation with optional AC-620 or RB-100 adaptors. Operates on rechargeable Ni-cad battery. 4.56 x 3.06 x 1.25-in. . . . . \$130

### HS-T280 AM/FM Cassette Player

AM/FM cassette pocket stereo with LCD display and five station memory preset synthesized tuner. Features Dolby B; metal/normal tape selection; anti-rolling tape mechanism. Compatible with rechargeable Ni-Cad batteries and comes with headphones and belt clip. Available in black or white finish . . . \$100

### HS-G360 Autoreverse AM/FM Pocket Stereo

Features Dolby B NR, 3-band graphic EQ; metal/CrO<sub>2</sub> tape selector; anti-rolling mechanism; compatible with rechargeable Ni-cad batteries. Uses 2 AA batteries. 4.5 x 3.38 x 1.38-in; 10.01 oz . . . . . \$65  
HS-T260. Same as above without autoreverse and graphic EQ. . . . . \$65  
HS-T230. Same as HS-T260 without Dolby . . . \$60

### HR-SO1MKH AM/FM Pocket Stereo

Features folding headphones; second headphone jack. Uses 2 AA batteries. 4.6 oz . . . . . \$75

### HS-P12 Headphone Cassette Player

Stereo headphone compact cassette player features anti-rolling drive mechanism; metal tape selector;

auto stop; belt hanger. Available in black (HS-P12B), white (P-12A), or burgundy red wine ((P-12R) . \$40

## EMERSON

### CRR100CS AM/FM Recorder/Player

Built in condenser mic, record directly from tuner. DC power 3 V; 2 AA batteries (not included); belt clip; stereo headphones; 5.5 x 3.5 x 1.6-in . . . . . \$59

### CRS260CS

Graphic equalizer AM/FM portable stereo cassette. AM/FM stereo switching; stereo headphones; auto-stop tape mechanism; attached belt clip; 3 V; 3.5 x 5.1 x 1.4-in . . . . . \$49

### CRS 24

AM/FM stereo switch; lightweight headphones; FM stereo indicator; rotary tuning and volume controls; attached belt clip; 3 V; 5.3 x 3.5 x 1.4-in. . \$39

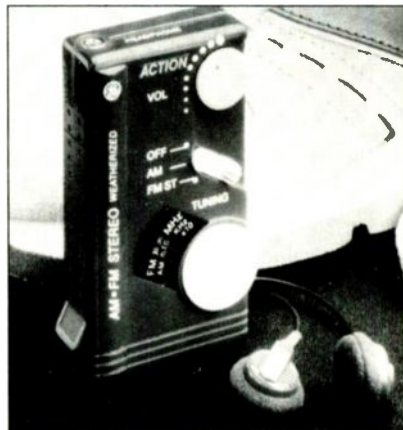
### CS15CS

Stereo cassette tape player. Auto-stop tape system; lightweight stereo headphones; fast forward control; attached belt clip; 3 V; 3.5 x 4.5 x 1.8-in . . . . \$24

## GE CONSUMER ELECTRONICS

### 7-1990 Pocket AM/FM Stereo

Mini-size portable AM/FM stereo radio. Features earbud-type headphones; adjustable armband; uses 1



AAA-size battery; blue-and-yellow; rotary volume and tuning controls; band selector . . . . . \$27

## HITACHI

### CP-203R AM/FM Cassette Recorder

With headphones; locking rewind; auto stop; built-in condenser mic; AM/FM tuner; <1 lb. . . . . \$60

### CP 201R AM/FM Cassette Player

Auto stop; fast forward and rewind; FM AFC; headphones; carrying clip; needs 2 AA batteries. FR 60-12,000 Hz with normal tape 3.33 x 5.5 x 1.36 in \$30

## JVC

### CS-R9 Pocket Radio/Cassette Recorder

Combination pocket AM/FM stereo radio and autore

verse cassette recorder with remote control. Features full-logic cassette mechanism; recording capability with external mic; rechargeable battery; bass enhancer; headphones . . . . . \$300

### CX-F3K Pocket Radio/Cassette Player

Combination pocket AM/FM radio and cassette player with 5-band SEA graphic equalizer. Features headphones; Dolby B noise reduction; autoreverse; tape selector . . . . . \$100

### CX-F2K Pocket Radio/Cassette Player

Combination pocket AM/FM radio and cassette player with 3-band SEA graphic equalizer. Features headphones; autoreverse; tape selector. . . . . \$100

## LENOXX

### 868 AM/FM Stereo Recorder with Speakers

AM/FM stereo cassette recorder with built-in speakers and 3-band graphic equalizer. Features AM/FM/FM stereo slide rule tuner; records from AM/FM or built-in mic; auto level control for recording; auto stop; FM stereo muting switch; built-in FM antenna; telescoping FM antenna; built-in condenser mic; lightweight headphones; 5.76 x 3.5 x 1.75 in; 11.5 oz; uses 2-AA batteries . . . . . \$59

### 935 AM/FM Cassette Player with 3 EQ

Personal cassette player features slide-rule tuner; 3 equalizers; lightweight, adjustable headphones; auto stop; removeable belt clip; uses 2-AA batteries . \$39

### 900 Personal Receiver with Cassette Player

AM/FM stereo portable receiver with built-in stereo cassette player. Features lightweight, adjustable headphones; removable belt clip; auto stop; slide-rule tuner; stereo headphone jack; DC input jack; FM stereo muting switch; 6 x 3.5 x 1.5 in; uses 2-AA batteries . . . . . \$29

### 894 Stereo Cassette Player

Plays all stereo or mono cassettes and metal tapes; Features rotary volume control; lightweight, adjustable headphones; built-in belt clip; 3.5 x 4.75 x 1.5 in; uses 2-AA batteries. . . . . \$19

### 882 AM/FM Headphone Radio

Headphone radio receives AM/FM broadcasts. Features adjustable headband; unbreakable antenna with safety tip; 6.5 x 6 x 1.75 in; uses 2-AA batteries \$10

## PANASONIC

### RX-SA255 FM/AM Stereo Cassette Player

FM/AM/FM personal stereo radio cassette player with remote control and rechargeability. Features Ni-Cad Battery charger provides 3-hour playback on 2-hour charge; auto-reverse/reverse mode selector; Dolby NR; metal/CrO<sub>2</sub> normal tape selector; DX-local FM sens selector; FM stereo/mono mode selector; volume and tone controls; lightweight stereo earphones; LED power/batt indicator; jacks for DC-in and headphone; battery charger and case; 4.5 x 2.94 x 1 in; .38 lb; operates on 2 AA batteries . . . . . \$249

### RX-SA79 AM/FM/Cassette Pocket Stereo

Extra Bass System (off, light, or heavy); autoreverse; NiCad battery charger for 3 hrs of play; 3-band graphic equalizer; Dolby NR; DX/local FM-sens



# POCKET STEREO

switch; headphones; belt clip; auto stop; uses battery charger or 1 AA battery. 9 oz ..... \$169



Panasonic RX-SA255

**RX-SA73 FM/AM Stereo Radio Cassette Player**  
FM/AM/FM personal stereo radio cassette player with 3-band graphic equalizer and rechargeability. Features Ni-Cad battery charger provides up to 3 hours of playback on 2-hour charge; auto-reverse/reverse mode selector; direction control; dolby NR; anti-rolling mechanism; auto-stop; DX-local FM sens selector; vol and tuning controls; LED tape/batt indicator; jacks for DC-in and headphone; detachable belt clip; 4.5 x 3.06 x 1.13 in.; .5 lb ..... \$139

**RF-HX7 FM Stereo Radio Headphones**  
FM stereo tuner built into headphones with cord to connect to pocket cassette player or portable CD player; mica-filled flat diaphragms; soft muting; FM stereo/mono switch; power LED; LC-OFC connection cord and phone plug adaptor; needs 2 AAA batteries. 5.5 oz. .... \$109

**RX-SA78 AM/FM/Cassette Pocket Stereo**  
1 radio-station preset; headphones; autoreverse; built-in 5-band graphic equalizer; Dolby NR; anti-roll mechanism; bias/EQ for normal or chrome/metal tape; DX/local FM-sens switch; FM stereo LED; belt clip; needs 2 AA batteries. 9 oz ..... \$109

**RX-SR39 FM/AM Stereo Radio Cassette Recorder**  
FM/AM/FM personal stereo radio cassette recorder with built-in front speaker and sound level equalizer. Features Ni-Cad battery charger; built-in condenser microphone; high/low tone selector; electronic pause control; auto-stop; DX-local FM sens selector; FM stereo/mono mode selector; DC-in, ext. stereo mic and headphone jacks; detachable belt clip; 4.88 x 3.38 x 1.5 in.; .5 lb; Operates on 2-AA batteries .... \$109

**RX-SA67 FM/AM Stereo Cassette Player**  
FM/AM/FM personal stereo radio cassette player with XBS and auto-reverse. Features anti-rolling mechanism; DX-local FM sens selector; forward/reverse direction control; LED FM stereo indicator; stereo headphones; detachable belt clip; jacks for DC-in and headphone; 4.88 x 3.38 x 1.5 in.; .69 lb; Operates on 2 AA batteries ..... \$89

**RX-SR29 FM/AM Stereo Radio Cassette Recorder**  
FM/AM/FM personal stereo radio cassette recorder with cue and review controls. Features one-touch and follow-up recording; built-in FM/AM/FM stereo tuner; built-in condenser microphone; electronic pause control; DX-local FM sens selector; FM stereo/mono mode selector; beat proof switch; auto-stop; lightweight stereo headphones; detachable belt clip; jacks for DC-in, ext stereo mic, and headphone; 4.88 x 3.38 x 1.5; .5 lb. .... \$89

**RF-HD5 FM Stereo Headphone Radio**  
Splash-proof collapsible radio with rubber helical

whip antenna; FM stereo/mono switch; DX/local FM-sens switch; plays up to 30 hrs on one AAA battery (not included). 3 oz ..... \$74

**RX-SA66 AM/FM/Cassette Pocket Stereo**  
Autoreverse; Ultra-Phonic mode to boost highs and lows; anti-roll mechanism; DX/local FM-sens switch; FM stereo LED; belt clip; FF and rewind; headphones; needs 2 AA batteries or optional AC adaptor. 5.5 oz. .... \$69

**RX-SA64 FM/AM Stereo Radio Cassette Player**  
FM/AM/FM personal stereo radio cassette player with 48-hour playback time. Features built-in roll-up stereo earphones; auto-stop DX-local FM sens selector; volume and tuning controls; LED FM stereo indicator; headphone jack; 4.88 x 3.38 x 1.5 in.; .69 lb; Operates on 2-C batteries ..... \$49

**RX-SA60 AM/FM/Cassette Pocket Stereo**  
With headphones; auto stop; DX/local FM-sens switch; FF and rewind; FM stereo LED; belt clip; needs 2 AA batteries or optional AC adaptor; in: black, red, pink, or silver. 8 oz ..... \$45

**RF-H6 AM/FM Collapsible Headphone Radio**  
FM/AM/FM stereo headphone radio with collapsible design. Features built-in FM stereo/AM tuner; open-air headphones FM stereo/mono mode selector; DX-local FM sens selector; rotary vol and tuning controls; ext. antenna jack and included FM antenna cord; .19 lb; Operates on 1 AAA battery ..... \$44

**RF-H2 FM Stereo Headphone Radio**  
Open-air design; FM stereo/mono switch; DX/local FM-sens switch; built-in and external antennas; needs 1 AAA battery; in yellow, red, or lavender. 2 oz ..... \$35

**RQ-JA52 Stereo Cassette Player**  
Stereo cassette player with lightweight stereo headphones. Features auto-stop; volume control; detachable belt clip; DC-in and headphone jacks; optional AC adaptor; 4.5 x 3.38 x 1.44 in.; .44 lb; Operates on 2-AA batteries ..... \$25

**RF-423 AM/FM Stereo Headphone Radio**  
FM/AM/FM stereo radio with lightweight stereo headphones. Features FM stereo/mono mode selector; LED FM stereo indicator; slide-rule tuning dial; detachable belt clip; headphone jack; lightweight stereo headphones; 4.38 x 2.5 x .94 in.; .25 lb; operates on AAA batteries ..... \$24

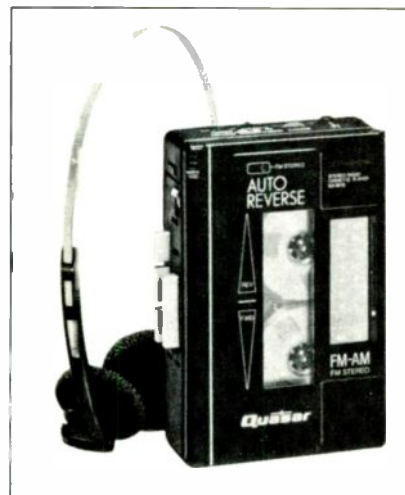
## QUASAR

**GX3677 Cassette/AM/FM Pocket Stereo**  
Features autoreverse; metal/chrome capability; built-



in condenser microphone. Use 2 AA batteries . \$100

**GX3676 Cassette/AM/FM Pocket Stereo**  
Features 3-band equalizer; autoreverse with direction button; local/DX switch; anti-roll mechanism; FM



AF; tone switch. Detachable belt clip and lightweight headphones included. Uses 2 AA batteries. 3.31 x 5 x 1.5 in; 1.1 oz ..... \$60

**GX3667 Cassette/AM/FM Pocket Stereo**  
Features lightweight headphones; auto stop; fast forward and rewind; LED FM stereo indicator; local/DX switch, available in black, pink, or lavender. Uses 2 AA batteries. .... \$35

## REALISTIC

**SCP-5 AM/FM Stereo Cassette Recorder**  
Autoreverse; Dolby B; EQ switch for all tapes; LED's for tape direction, FM stereo, low batteries; belt clip; needs 2 AA batteries. 5.75 x 3.5 x 1.4 in ..... \$80

**SCP-17 Stereo Cassette Recorder**  
Mono speaker; records in stereo with built-in mics; jacks for external mics; FF and rewind; L and R volume controls; compatible with rechargeable batteries; case with shoulder strap; needs 2 AA batteries. 5 x 3.4 x 1.9 in ..... \$80

**SCP-19 Stereo Cassette Player**  
Dolby B; autoreverse; EQ switch for all tapes; LED's for tape direction, batteries; belt clip; needs 2 AA batteries. 4.75 x 3.5 x 1.4 in. .... \$60

**SCP-24 AM/FM Stereo Cassette Player**  
L and R volume controls; FM stereo/battery LED; detachable belt clip; auto stop; needs 3 AA batteries. 5.7 x 3.7 x 1.6 in. .... \$40

**SCP-20 Stereo Cassette Player**  
Equalizer boosts or cuts bands centered at 100, 1,000, and 10,000 Hz; auto stop; LED for batteries; detachable belt clip; needs 2 AA batteries. 4.5 x 3.25 x 1.3 in. .... \$30

**SCP-22 Stereo Cassette Player**  
L and R volume controls; auto stop; LED for batteries; detachable belt clip; needs 2 AA batteries. 4.5 x 3.5 x 1.4 in. .... \$25

**SCP-26 Stereo Cassette Player**  
Weatherproof housing; belt clip; needs 2 AA batteries. 4.75 x 4.1 x 1.75 in ..... \$30

## RHAPSODY BY ALARON

**RY-381 AM/FM/Cassette Pocket Stereo**  
Cassette pocket stereo with AM/FM tuner. Features FM-stereo indicator; stop, FF, play cassette operation; belt-clip; slide volume control; stereo headphone; 3 V

# POCKET STEREO

DX input jack. Uses 2 AA batteries. 5.38 x 3.75 x 1.75-in. .... \$35

**RY-378 AM/FM/Cassette Pocket Stereo**  
Cassette pocket stereo with AM/FM tuner. Features auto-stop; stop, FF, play cassette operation; belt-clip; volume control; stereo headphone. Uses 3 AA batteries. 6.38 x 3.5 x 1.38-in. .... \$30

**RY-280 Solar AM/FM Pocket Stereo**  
Solar cells recharge built-in Ni-Cad battery. Includes folding lightweight headphones; adjustable elastic arm band; pocket clip. 3.5 x 1.63 x 0.75-in. .... \$30

**RY-275 AM/FM Pocket Stereo**  
Includes folding headphones; adjustable elastic arm band; transparent pouch for all-weather use. 3.75 x 1.25 x 0.63 ..... \$24

**RY-278 AM/FM Headphone Receiver**  
AM/FM-multiplex featherweight headphone radio with adjustable headband that folds up for storage. Features foam-padded earpieces; LED stereo indicator; in-out jack; doubles to connect with other personal or home stereos (connecting cables not included); operates on 2 AA batteries (not included). .... \$17

**RY-270 Cassette Pocket Stereo**  
Cassette pocket stereo features slide volume control; stereo headphone; high-impact case. Uses 2 AA batteries. 4.25 x 3.25 x 1.38-in. .... \$14

**RY-212 AM/FM/Cassette Pocket Stereo**  
Cassette pocket stereo with AM/FM tuner. Features FM-stereo indicator; belt-clip; carrying strap; 1/R volume controls; stereo headphone. Uses 2 AA batteries. Available blue, black, or mauve; 5 x 3.25 x 1.38-in. .... \$12

**RY-273 Mini FM Receiver**  
Features headphone; slide switch for power and volume. Uses 3 A76 button-cell batteries (not included). 3 x 1.25 x 0.44-in. .... \$10

## SANSUI

**EM-P2 Cassette Player/Mixer/Amp**  
Designed for musicians and vocalists. Features play; stop; rewind/review; fast forward/cue; tape/tone



selector; volume; headphone jack accepts plugs from musical instruments; stereo line-out jack; built-in mic; echo control;  $\pm 15\%$  pitch control ..... \$175

## SANYO

**MGR95R Pocket AM/FM Stereo Cassette Player**  
Mini-size AM/FM tuner/cassette player with autoreverse. Features recording from detachable stereo mic or from either radio band; EBSS (Extended Bass Sound System). .... \$100

**WR66 Pocket AM/FM Stereo Cassette Player**  
Mini-size splash-proof cassette player with built-in AM/FM tuner. Features specially sealed case; anti-rolling mechanism; AFC; stereo/mono switch; FM-stereo indicator; auto-stop mechanism; stereo head

phones; belt clip; locking fast winds. Uses 2 AA batteries ..... \$80

**MGR85D Pocket AM/FM Stereo Cassette Player**  
Mini-size AM/FM tuner/cassette player with autoreverse. Features Dolby noise reduction; 3-band graphic EQ; cue and review; rechargeable capability; EBSS bass enhancement ..... \$70

**MGR87 Pocket AM/FM Stereo Cassette Player**  
Mini-size autoreverse cassette player with built-in AM/FM tuner. Features 3-band graphic equalizer; rechargeable capability; auto-stop mechanism; locking fast winds; FM-stereo indicator; lightweight headphones; belt clip. Uses 2 AA batteries. Available in black, white, or red. .... \$60

**MGR84RG Pocket AM/FM Stereo Cassette Player**  
Mini-size AM/FM tuner/cassette player. Features 3-band graphic equalizer; auto stop; stereo headphones; FM stereo indicator; detachable belt clip; rechargeable AA-size batteries; AC charger ..... \$55  
**MGR84**. As above, without batteries or charger \$50

**MGP34RG Pocket AM/FM Stereo Cassette Player**  
Mini-size AM/FM tuner/cassette player. Features 3-band graphic equalizer; lightweight stereo headphones; locking fast-forward; detachable belt clip; 2 rechargeable AA-size NiCd batteries; AC charger \$40  
**MGP34**. As above, without batteries or charger \$35

**RP90 Headphone Radio**  
One-piece AM/FM stereo headphone radio. Features folding headband; thumbwheel volume and tuning controls; telescopic rod antenna. Comes in red, black, and yellow. .... \$35

## SHARP

**Optonica Pocket JC-870 AM/FM/Cassette Player**  
Ultra-mini-size unit. Features full-logic autoreverse; wired remote control; AM/FM stereo; Dolby B noise

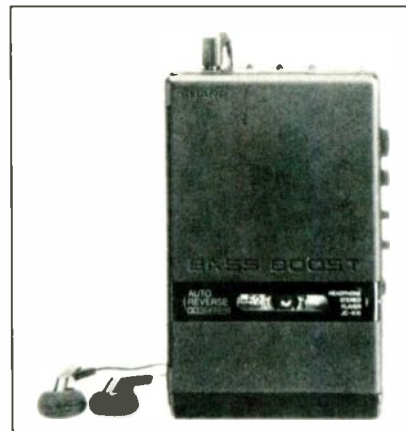


reduction; X-Bass; rechargeable battery pack; anti-rolling mechanism; oxygen-free copper cord for headphones. .... \$250

**Optonica Pocket JC-280 Cassette Player**  
Ultra-mini-size portable cassette player with Dolby B and C noise reduction. Features full-logic autoreverse; wired remote control; X-Bass; rechargeable battery pack; amorphous head; gold-plated jack and headphone plug; anti-rolling mechanism; oxygen-free copper cord; ultra-thin headphone plates. \$230  
**Optonica JC-270**. As above without ultra-thin headphone plates or Dolby C NR ..... \$200

**JC-K15G Pocket Cassette Player**  
Ultra-mini-size cassette player with Dolby B noise reduction. Features autoreverse; bass-boost system; metal-tape capability; headphones; LED power indicator ..... \$130

**JC-534 Pocket Radio/Cassette Player**  
Mini-size unit with autoreverse. Features X-Bass; Dolby NR; 3-band graphic equalizer; anti-rolling mechanism; AM/FM stereo radio; LED battery-strength indicator; detachable belt clip; headphones. .... \$100



Sharp JC-K15G

**JC-R88 Pocket Radio/Cassette Player**  
Pocket AM/FM stereo radio and cassette player. Features autoreverse; 3-band graphic equalizer; anti-rolling mechanism. Available in black, blue, red, and yellow ..... \$80

**JC-516 Pocket Radio/Cassette Player**  
Ultra-compact size pocket radio/cassette player with autoreverse and 3-band graphic equalizer; anti-rolling mechanism. Available in black, blue, red, and silver ..... \$70  
**JC-136**. As above without graphic equalizer ... \$30

**JC-508 Pocket Radio/Cassette Player**  
Features autoreverse; lockable FF/REW controls; anti-rolling mechanism; LED FM-stereo indicator; lightweight headphones; belt-clip. Available in black or red. .... \$50

**JC-128 Pocket Radio/Cassette Player**  
Compact-size pocket radio and cassette player. Features volume control; FF; REW; STOP. Available in pink, yellow, black, blue, and red. .... \$30

**JC-130 Pocket Radio/Cassette Player**  
Features lightweight headphones; auto-stop system; locking fast-forward; detachable belt clip; FM-stereo indicator ..... \$30

## SONY

**WM-D6C Pocket Cassette Recorder**  
Features record and play modes; Dolby B & C; disc quartz-lock drive system; stereo mini microphone jack; anti-rolling mechanism; 3-way power supply. Includes headphones, case, and connection cord. Uses 4 AA batteries. 6.74 x 1.5 x 3.75 in; 1 lb, 7 oz \$400

**WM-D3 Pocket Cassette Recorder**  
Features record and play modes; Dolby B & C; disc drive; stereo mini microphone jack; anti-rolling mechanism; 3-way power supply. Includes headphones, case, connection cord, and strap. Uses 2 AA batteries. 5 x 1.38 x 3.25 in; 13.1 oz. .... \$270

**WM-F200II Pocket Cassette/Radio**  
Features autoreverse; record and play modes; Dolby B; stereo mini microphone jack; belt drive system; anti-rolling mechanism; AM/FM tuner; local/DX switch; 3-way power supply. Includes headphones, rechargeable battery, charger, one-point stereo microphone, and case. 2.75 x 4.38 x 0.88 in; 8.2 oz \$250

**WM-F109 Pocket Cassette/Radio**  
Features remote control; rechargeable battery; Dolby B noise reduction; autoreverse; belt-drive system; anti-rolling mechanism; AM mono and FM stereo reception; local/DX switch. Comes with charger, battery, and carrying case; 4.5 x 2.88 x 1 in; 7.4 oz. .... \$230



# POCKET STEREO

## WM-F601 Pocket Cassette/Radio

Features Sony Mega-Bass; Dolby B noise reduction; autoreverse; rechargeable battery; belt-drive system; anti-rolling mechanism; AM mono and FM stereo reception; local/DX switch. Comes with battery, charger, carrying case, and DC-in charger. 4.25 x 2.75 x .91 in; 6.7 oz ..... \$220

## WM-F100III Pocket Cassette/Radio

Features autoreverse; Dolby B; belt-drive system; anti-rolling mechanism; AM/FM tuner; local/DX switch; 3-way power supply. Includes headphones, rechargeable battery, charger, and case. 2.75 x 4.36 x 0.78 in; 7.1 oz ..... \$160

## WM-100III Pocket Cassette Player

Features play mode; Dolby B; belt-drive system; anti-rolling mechanism; autoreverse; headphone; comes with batteries, charger, and carrying case. 4.38 x 2.75 x .78 in; 6.7 oz ..... \$140

## WM-F73 Pocket Cassette/Radio

Features autoreverse; Dolby B; water-resistant design; belt drive system; anti-rolling mechanism; AM/FM tuner; local/DX switch; 3-way power supply. Includes headphones and belt clip. Uses 2 AA batteries. 3.48 x 4.53 x 1.42 in; 11.2 oz. .... \$120

## WM-AF64 Pocket Cassette/Radio

Features preset tuning; Dolby B noise reduction; autoreverse; belt-drive system; anti-rolling mechanism; AM mono and FM stereo reception; local/DX switch. Comes with belt-clip. 4.63 x 3.5 x 1.5 in; 8.7 oz ..... \$100

## WM-F46 Pocket Cassette/Radio

Features record and play modes; stereo mini microphone jack; belt-drive system; AM/FM tuner; local/DX switch; 3-way power supply. Includes headphones and belt clip. Uses 2 AA batteries. 3.47 x 5.5 x 1.45 in; 12.3 oz ..... \$80

## WM-F45 Pocket Cassette/Radio

Features water-resistant design; belt-drive system; anti-rolling mechanism; AM/FM tuner; local/DX switch. Includes headphones and strap. Uses 2 AA batteries. 5.5 x 3.62 x 1.5 in; 11.3 oz. .... \$75

## WM-AF55 Pocket Cassette/Radio

Features autoreverse; Sony Mega-Bass; belt-drive system; AM mono and FM stereo reception; local/DX switch. Comes with belt-clip. 3.75 x 5.25 x 1.56 in; 9.7 oz ..... \$70

## WM-A52 Pocket Cassette Player

Features play mode; belt-drive system; headphone. Comes with belt clip. 4 x 5.5 x 1.63 in; 11.3 oz. .... \$63

## WM-A39 Pocket Cassette Player

Features play mode; Dolby B noise reduction; Sony Mega-Bass; belt-drive; anti-rolling mechanism; autoreverse. Comes with belt clip. 3.66 x 4.78 x 1.56 in; 8.1 oz ..... \$63

## WM-AF42 Pocket Cassette/Radio

Features autoreverse; belt-drive system; AM mono and FM stereo reception; local/DX switch. Comes with belt-clip. 3.75 x 5.25 x 1.5 in; 9.3 oz. .... \$60

## WM-AF28 Pocket Cassette/Radio

Features rechargeable battery; belt-drive system; AM mono and FM stereo reception; local/DX switch. Comes with belt-clip, battery, and charger. 3.47 x 5.28 x 1.28 in; 8.1 oz ..... \$53

## SRF-M40W Pocket Radio

Features PLL-synthesized tuner; 7 AM/7 FM station

presets; AM mono and FM stereo reception; local/DX switch. Comes with belt-clip. 3.7 x 3.3 x 1.09 in; 6 oz ..... \$50

## SRF-5 Pocket Radio

FM-only radio with water-resistant design and local/DX switch. Includes headphones and holder. Uses 2 AA batteries. 1.5 x 4 x 0.56 in; 2.2 oz. .... \$50

## WM-AF22 Pocket Cassette/Radio

Features belt-drive system; AM mono and FM stereo reception; local/DX switch. Comes with belt-clip. 3.47 x 5.28 x 1.25 in; 7.9 oz ..... \$43

## SRF-R7 Headphone Radio

Features AM/FM tuner and local/DX switch. Uses 2 AA batteries. 4.8 oz ..... \$40

## WM-A18 Pocket Cassette Player

Features play mode; belt-drive system. Comes with belt clip, battery, and charger. 3.47 x 4.81 x 1.28 in; 7.2 oz ..... \$40

## SRF-4 Pocket Radio

AM/FM radio with water-resistant design and local/DX switch. Includes headphones and holder. Uses 2 AA batteries. 2.25 x 4.25 x 0.84 in; 4 oz. .... \$33

## WM-A10 Pocket Cassette Player

Features play mode; belt-drive system. Comes with belt clip. 3.47 x 4.81 x 1.25 in; 7.7 oz ..... \$30

## SRF-FM2 Headphone Radio

FM-only radio with local/DX switch. Uses 2 AA batteries. 3.6 oz ..... \$30

## SRF-35W Pocket Radio

AM/FM radio with 3-band graphic EQ and local/DX switch. Includes headphones and belt clip. Uses 2 AA batteries. 3.41 x 2.72 x 0.88 in; 4.4 oz ..... \$27

## SRF-19W Pocket Radio

AM/FM pocket radio uses 2 AA batteries. 4.33 x 2.38 x 0.88 in; 3.6 oz ..... \$20

## SRF-16W Pocket Radio

FM-only radio with local/DX switch. Includes headphones and belt clip. Uses 2 AA batteries. Available in different colors. 2.5 x 4.38 x 0.88 in; 1.7 oz. .... \$15

## TOSHIBA

### KT-4088 Pocket Radio/Cassette

Combination AM/FM radio/cassette player. Features Super Bass; autoreverse; wired remote control; Dolby B NR; music quick start system; earbuds ..... \$230

### KT-4978 Pocket Cassette Player

Features Super Bass; autoreverse; Dolby B NR; full IC logic wired remote control; anti-rolling mechanism; earbuds with case; uses on AA battery ..... \$190

### KT-4078 Pocket Radio/Cassette

Combination AM/FM radio/cassette player. Features autoreverse; wired remote control; Dolby B NR; music quick-start system; earbuds ..... \$190

### KT-4188 Pocket Cassette Player

Mini-size pocket cassette player. Features Super Bass; autoreverse; Dolby B NR; full IC logic wired remote control; anti-rolling mechanism; earbuds with case; uses on AA battery ..... \$180

### KT-4868 Pocket Radio/Cassette

Combination AM/FM radio/cassette player. Features autoreverse cassette mechanism; desktop AC charger; Dolby B noise reduction; stereo headphones; up/down channel selector; 3-band graphic equalizer; carrying cradle ..... \$180

### KT-4968 Pocket Cassette Player

Mini-size pocket cassette player. Features Dolby B noise reduction; autoreverse cassette mechanism; anti-rolling mechanism; earbud style stereo headphones; uses AA ..... \$170

### KT-4568 Pocket Radio/Cassette

Combination AM/FM radio/cassette player. Features autoreverse; digital tuning; Dolby B noise reduction; headphones; up/down radio-channel selector; 3-band graphic equalizer; carrying cradle ..... \$170

### KT-4087 Pocket Radio/Cassette

Built-in mic for rec; 3 band graphic EQ; autoreverse; Dolby B NR; AM/FM tuner ..... \$160

### KT-4848 Pocket Radio/Cassette

Combination AM/FM radio/cassette player. Features autoreverse; Dolby B NR; headphones; 3-band graphic EQ; carrying cradle; rechargeable NiCd. .... \$120

### KT-4538 Pocket Radio/Cassette

Combination AM/FM radio/cassette player. Features autoreverse; digital tuning; Dolby B NR; headphones; up/down channel selector; 3-band graphic EQ; carrying cradle; 10 random presets ..... \$110

### KT-4048 Pocket Radio/Cassette

Combination AM/FM radio/cassette player. Features autoreverse cassette mechanism; Dolby B noise reduction; stereo headphones; 3-band graphic equalizer; belt clip; anti-rolling mechanism ..... \$90

### RP-2068 Headphone/Radio

1-piece design stereo headphone/AM/FM radio. Digital tuning with 10 AM 5FM preset stations; clock and alarm functions ..... \$80

### KT-4038 Pocket Radio/Cassette

Combination AM/FM radio cassette player. Features autoreverse cassette mechanism; headphones; 3-band graphic EQ; belt clip; anti-rolling mechanism; 3-band graphic EQ ..... \$80

### RP-2057 Pocket Radio

Features digital-synthesized tuning; 10 station presets; up/down channel selector; uses 2 AAA-size batteries ..... \$70

### KT-4028 Pocket Radio/Cassette

Combination AM/FM radio cassette player. Features headphones; 3-band graphic EQ; belt clip; 3-band graphic EQ ..... \$60

### KT-4018 Pocket Radio/Cassette

Combination AM/FM radio cassette player. Features headphones; auto shutoff; belt clip ..... \$50

### RP-2028 Pocket Radio

Features 3-band graphic equalizer; FM stereo indicator; stereo headphones; belt clip ..... \$40

### RP-2018 Pocket Radio

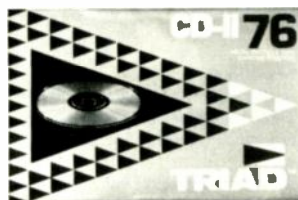
Features FM stereo indicator; built-in AFC; headphones; belt clip ..... \$25

## PRICES LISTED

are manufacturers' suggested retail prices  
(also referred to as list prices);  
actual selling prices are set by individual dealers.  
All prices are subject to change without notice.

For explanations of abbreviations, specifications and technical terms, consult the glossary on page 209.

# BLANK TAPE



## BASF

### Digital Audio Tapes

Ultra-fine metallic pigment specifically developed for helical-scan recording.

DAT C120, 120 min	\$11.99
DAT C90, 90 min	\$10.99
DAT C60, 60 min	\$9.99

### Metal Maxima IV Cassettes

Metal particle formulation features high performance cassette mechanism.

C120, 120 min	\$6.49
---------------	--------

### Chrome Maxima II Cassettes

As above, chrome formulation.

C90, 90 min	\$4.29
C60, 60 min	\$3.29

### Chrome Extra II Cassettes

Pure chrome formulation features high-performance cassette mechanism.

C90, 90 min	\$2.99
C60, 60 min	\$2.69

### Ferro Super I Cassettes

Iron oxide formulation features extra high frequency sensitivity for greater frequency response.

C90, 90 min	\$2.54
C60, 60 min	\$1.94

### Ferro Extra I Cassettes

Iron oxide formulation features extended signal-to-noise ratio over the entire frequency range.

C90, 90 min	\$1.69
C60, 60 min	\$1.49

## DENON

All Denon cassettes feature large window, life-time warranty, and head cleaning leader.

### High Density Series

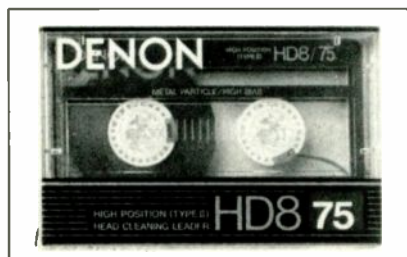
#### HD-M Metal Cassettes

High-stability pure metal tape formulation uses high-density dispersion technology that yields a residual magnetic flux density of over 3,500 Gauss and a coercivity of 1,200 Oersted.

HDM-100, 100 min	\$5.99
HDM-90, 90 min	\$5.50
HDM-75, 75 min	\$4.99
HDM-60, 60 min	\$4.50

#### HD8 High-Bias Cassettes

High-density metal particle formula uses New High Technorom magnetic pigment to increase residual



flux density to 3,000 gauss yielding an MOL of -4.5 dB at 10 kHz.

HD8-100, 100 min	\$4.99
HD8-90, 90 min	\$4.75
HD8-75, 75 min	\$4.25
HD8-60, 60 min	\$3.75

#### HD7 High-Bias Cassettes

Type-II formulation with extended high-frequency response and low noise. Residual flux density 1,850 Gauss, MOL -6.5 dB at 10 kHz.

HD7-90, 90 min	\$4.00
HD7-60, 60 min	\$3.00

#### HD6 High-Bias Cassettes

Type-II formulation with extended high-frequency response. Residual flux density 1,700 Gauss, MOL -5.7 dB at 10 kHz.

HD6-90, 90 min	\$3.25
HD6-60, 60 min	\$2.50

### DX Series

#### DX4 Ferric Normal Cassettes

Type-I formulation with extended frequency response. Residual flux density 2,000 Gauss, MOL -5.0 dB at 10 kHz.

DX4-90, 90 min	\$4.00
DX4-60, 60 min	\$3.00

#### DX1 Ferric Normal Cassettes

Low-noise high-output type I cassette with high sensitivity and high MOL (-7.5 dB at 10 kHz).

DX1-90, 90 min	\$2.25
DX1-60, 60 min	\$1.75

## FUJI

#### FR Metal Series Cassette Tape

Metal-coated tape with tensilized polyester base, designed for metal bias, 70- $\mu$ sec EQ.

FR (C-90), 90 min	\$8.49
FR (C-60), 60 min	\$6.39
FR (C-46), 46 min	\$4.99

#### FR-II Series Cassette Tape

Chromium dioxide cassettes with tensilized polyester base; designed for Type II/CrO<sub>2</sub> bias, 70- $\mu$ sec EQ. Comes packaged in hinged plastic box.

FR-II (C-90), 90 min	\$5.99
FR-II (C-60), 60 min	\$4.49

#### FR-II Super Series Cassette Tape

Super-premium Type II high-bias cassettes with 70  $\mu$ s EQ and cobalt-modified Beridox particles.

FR-II Super (C-90), 90 min	\$6.49
FR-II Super (C-60), 60 min	\$4.89

#### DR Series Cassette Tape

DR (C-90), 90 min	\$3.49
DR (C-60), 60 min	\$2.59

#### Digital Audio Tape

Super-Fine Metallix ultra-fine metal magnetic particle formulation. For use with digital audio tape players and recorders.

DAT (R-120), 120 min	\$12.95
DAT (R-90), 90 min	\$11.95
DAT (R-60), 60 min	\$10.95



Fuji DAT (R-120)

## GOLDSTAR

All tapes have tensilized polyester base material; tape width 3.81 mm; tape length 135 m; yield strength (5%) kg; breaking strength 1.0 kg; residual elongation 0.05%; squareness ratio 0.85; sens uniformity 0.3 dB; output fluctuation 0.4 dB (except for IID: 0.5 dB).

#### AHD-9011

Coercivity 340 Oe; retentivity 1,300 Gauss; sens +0.5 dB (315 Hz).

C-90, 45 min per side	\$0.99
-----------------------	--------

#### AHR-9011

Coercivity 340 Oe; retentivity 1,500 Gauss; sens +1.0 dB (315 Hz).

C-90, 45 min per side	\$1.29
-----------------------	--------

#### AHZ-9011

Coercivity 360 Oe; retentivity 1,600 Gauss; sens +2.0 dB (315 Hz).

C-90, 45 min per side	\$1.99
-----------------------	--------

#### AHP-9011

Coercivity 340 Oe; retentivity 1,500 Gauss; sens +1.0 dB (315 Hz).

C-90, 45 min per side	\$1.19
-----------------------	--------

#### CRX-9011

Cobalt-doped iron-oxide particles. Coercivity 550 Oe; retentivity 1,600 Gauss; sens +2.5 dB (315 Hz).

C-90, 45 min per side	\$2.49
-----------------------	--------

#### MTX-9011

Pure metal particles. Coercivity 1,050 Oe; retentivity 3,000 Gauss.; sens +2.0 dB (315 Hz)

C-90, 45 min per side	\$4.99
-----------------------	--------

## IRISH

#### High-Output Cassettes

Precision-shell ferric cassette in Norelco box.

XR-90, 45 min per side	\$2.70
XR-60, 30 min per side	\$2.10

#### Low-Noise Cassettes

Precision-shell ferric cassette in Norelco box.

LN-90, 45 min per side	\$2.15
LN-60, 30 min per side	\$1.75
LN-30, 15 min per side	\$1.50

## JVC

#### F Series

XFIV, Metal tape. Equalization 70 $\mu$ s.

C-90	\$4.50
------	--------



# B L A N K T A P E

**AFII. High Bias tape (CrO<sub>2</sub>). Equalization 70 $\mu$ s.**

C-90.....	\$2.60
C-60.....	\$2.35

**AFI. Normal bias tape. Equalization 120 $\mu$ s.**

C-90.....	\$2.20
C-60.....	\$1.80

**G1 Normal-Bias Cassette Tape**  
Popular series. Coercivity 370 Oe.

C-90, 90 min.....	\$1.60
C-60, 60 min.....	\$1.30

## LASER BY SWIRE MAGNETICS

**Laser UHD-II Cassettes**  
High-bias ferric cassettes with high energy and extended frequency response.

C-90, 45 min per side.....	\$2.59
----------------------------	--------

**Laser UHD-I Cassettes**  
Normal-bias ferric cassettes with high-energy, high-density formulation.

C-90, 45 min per side.....	\$2.59
C-60, 30 min per side.....	\$1.99

**Laser XL Cassettes**  
Normal-bias ferric cassettes with extra low noise for voice or music.

C-90, 45 min per side.....	\$1.89
C-60, 30 min per side.....	\$1.49
C-45, 22.5 min per side.....	\$1.39

**AFII. High Bias tape (CrO<sub>2</sub>). Equalization 70 $\mu$ s.**

C-90.....	\$2.60
C-60.....	\$2.35

**AFI. Normal bias tape. Equalization 120 $\mu$ s.**

C-90.....	\$2.20
C-60.....	\$1.80

**G1 Normal-Bias Cassette Tape**  
Popular series. Coercivity 370 Oe.

C-90, 90 min.....	\$1.60
C-60, 60 min.....	\$1.30

## MAXELL

**Digital Audio Tape**  
Features Ceramic-Armor metal-particle formulation

R-120DM, 120 min.....	\$14.99
R-90DM, 90 min.....	\$12.99
R-60DM, 60 min.....	\$10.99
R-46DM, 46 min.....	\$8.99

**MX Metal Cassettes**  
Metal bias/EQ.

MX-90, 90 min.....	\$5.29
MX-60, 60 min.....	\$4.39

**XLII-S Epitaxial Cassettes**  
High-level bias; 70- $\mu$ sec EQ.

XLII-S90, 90 min.....	\$4.39
XLII-S60, 60 min.....	\$3.59

**XLII-S Epitaxial Cassettes**  
Normal bias; 120- $\mu$ sec EQ.

XLII-S90, 90 min.....	\$4.39
XLII-S60, 60 min.....	\$3.59

**XL-II Epitaxial Cassettes**  
Chrome type; high-level bias; 70- $\mu$ sec EQ.

C-100, 100 min.....	\$4.39
C-90, 90 min.....	\$3.99
C-46, 46 min.....	\$3.29
C-60, 60 min.....	\$3.29

**UDS-I Normal-Bias Cassettes**  
Features phase accuracy shell, frictionless slip sheets, Quin-Lok hubs, cleaning leader.

C-90.....	\$3.29
C-46.....	\$2.49
C-60.....	\$2.49

**UDS-II High-Bias CrO<sub>2</sub> Cassettes**  
Features phase accuracy shell, frictionless slip sheets,

**Quin-Lok hubs, cleaning leader.**

C-90.....	\$3.29
C-46.....	\$2.49
C-60.....	\$2.49

**Normal-Bias Cassettes**

UR-120, 120 min.....	\$2.79
UR-90, 90 min.....	\$1.79
UR-46, 46 min.....	\$1.49
UR-60, 60 min.....	\$1.49

### Open-Reel Tapes

**XLI Back-Coated Open-Reel Tapes**

XLI 35-180B, 3,600 ft, 10.5" reel.....	\$35.79
XLI 35-90B, 1,800 ft, 7" reel.....	\$12.79

**Ultra-Dynamic Open-Reel Tapes**

UD35-180, 3,600 ft, 10.5" reel.....	\$28.39
UD35-90, 1,800 ft, 7" reel.....	\$9.19

## MEMOREX BY MEMTEK

**CDX II High-Bias Cassettes**  
Metal tape for High Bias (type II) setting. Superior tape for recording CD or digitally-sourced music at high bias, 70  $\mu$ sec setting. Greater headroom for distortion-free reproduction at significantly higher recording levels than conventional high bias tapes. New permanent reference cassette mechanism shell.

C-90.....	\$4.99
-----------	--------

**HBX II High-Bias Cassettes**  
High-performance ferric/cobalt tape for use at high bias 70  $\mu$ sec setting. Higher MOL's, greater sensitivity compared to standard high bias and CrO<sub>2</sub> tapes. New permanent reference cassette mechanism.

HBX II High Bias C-90.....	\$3.79
HBX II (type II) C-60.....	\$2.99

**HB II High-Bias Cassettes**  
Premium tape for high bias 70  $\mu$ sec EQ position. Improved low end MOL, greater sensitivity, new permanent reference cassette mechanism; high visibility clear shell

HB II High-Bias C-90.....	\$2.79
HB II (type II) C-60.....	\$2.29

**MRX I Normal-Bias Cassettes**  
Premium normal bias tape. Full lifetime warranty.

C-90.....	\$2.69
C-60.....	\$2.19

**dbS Normal-Bias Cassettes**  
Normal-bias tapes

C-120.....	\$2.59
C-90.....	\$1.79
C-60.....	\$1.49
C-46.....	\$1.29

## NAKAMICHI

**ZX Reference Cassette Tapes**  
Metalloy (metal-particle) formulation for recording on metal-compatible decks only; features ultra-high coercivity and retentivity for improved distortion and MOL; 70- $\mu$ sec EQ.

ZX-C90, 90 min.....	\$10
ZX-C60, 60 min.....	\$7.25

**SX II Reference Cassette Tapes**  
Double-coated ionized cobalt and ferric-oxide formulation. CrO<sub>2</sub> bias and EQ (70  $\mu$ sec). Comes with transparent, hinged case.

SXII-C90, 90 min.....	\$8.90
SXII-C60, 60 min.....	\$6.50

**SX Reference Cassette Tapes**  
Single-coated ionized cobalt and ferric oxide formulation; high coercivity permits use of CrO<sub>2</sub> bias and EQ (70  $\mu$ sec) for 4-5 dB better S/N ratio.

SX-C90, 90 min.....	\$6.50
SX-C60, 60 min.....	\$4.50

**EX II Reference Cassette Tapes**  
Single-coated ferric/cobalt formulation; same bias and EQ (120  $\mu$ sec) as EX tape; extra-low noise, high output.

EXII-C90, 90 min.....	\$6
EXII-C60, 60 min.....	\$4.25

## PANASONIC

**CrO<sub>2</sub>-Position Cassettes**

RT-90EX2, C-90 length, 2 pack.....	\$9.95
------------------------------------	--------

**Normal-Bias Cassettes**

RT-60FS2, Fashion series, C-60 length, Color-tinted shell, 2 pack.....	\$5.45
RT-80EN2, C-90 length, 2 pack.....	\$5.45
RT-60EN2, C-60 length, 2 pack.....	\$3.95

**Microcassettes**

RT-604 MC, C-60 length, 4 pack.....	\$11.95
RT-90 AMC, C-90, Angrom composition.....	\$6.95
RT-602 MC, C-60 length, 2 pack.....	\$5.95

## REALISTIC

**Cassette Tape**  
Prices may vary according to quantity purchased, with prices lower per tape with larger quantities.

**MIV Type IV Metal Cassette Tape**  
Fine-grain metal particles; 5-screw housing; hinged storage box.

MIV-90, 90 min.....	\$6.99-\$4.89
MIV-60, 60 min.....	\$5.99-\$4.19

**MII Metal Type II High-Bias Tape**  
Metal tape for recording and playback with Type II bias and EQ; head-cleaning leader; hinged storage box.

MII-90, 90 min.....	\$5.69-\$3.99
MII-60, 60 min.....	\$4.89-\$3.43

**HD Hi-Definition Chrome-Equivalent**  
For recording and playback with high-bias Type II bias and EQ; head-cleaning leader; hinged storage box; index card.

HD-90, 90 min.....	\$4.29-\$2.97
HD-60, 60 min.....	\$3.49-\$2.45

**XR Type I Premium Ferric Tape**  
Hinged storage box with index card.

XR-120, 120 min.....	\$4.99-\$3.29
XR-90, 90 min.....	\$3.79-\$2.59
XR-60, 60 min.....	\$2.79-\$1.89
XR-45, 45 min.....	\$2.45-\$1.79

**LN Low-Noise Type I Standard Ferric**  
Hinged storage box with index card.

LN-120, 120 min.....	\$3.49-\$2.29
LN-90, 90 min.....	\$2.79-\$1.85
LN-60, 60 min.....	\$1.99-\$1.29
LN-30, 30 min.....	\$1.59-\$1.05

**Concertape Type I Cassettes**

C-120, 3-pack; each 120 min.....	\$4.99-\$4.39
C-90, 3-pack; each 90 min.....	\$3.59-\$3.19
C-60, 3-pack; each 60 min.....	\$2.59-\$2.29
C-30, 3-pack; each 30 min.....	\$1.99-\$1.79
C-90, Single; 90 min.....	\$1.25
C-60, Single; 60 min.....	\$0.88

**Open-Reel Tape**  
Supertape Premium. Polyester base, super-calendered.

5" reel; 900 ft; 1.0 mil; 1-9 tapes.....	\$3.99 each
5" reel; 900 ft; 1.0 mil; 10+ tapes.....	\$3.19 each
7" reel; 1,200 ft; 1.5 mil; 1-9 tapes.....	\$5.99 each
7" reel; 1,200 ft; 1.5 mil; 10+ tapes.....	\$4.79 each
7" reel; 1,800 ft; 1.0 mil; 1-9 tapes.....	\$6.99 each
7" reel; 1,800 ft; 1.0 mil; 10+ tapes.....	\$5.99 each
7" reel; 3,600 ft; 0.5 mil; 1-9 tapes.....	\$12.99 each
7" reel; 3,600 ft; 0.5 mil; 10+ tapes.....	\$10.39 each

**Low-Noise, Polyester Base.**

7" reel; 1,800 ft; 1.0 mil.....	\$5.99-\$4.39 each
---------------------------------	--------------------

# B L A N K T A P E

7" reel; 2,400 ft; 0.5 mil . . . . . \$6.99-\$5.19 each  
 7" reel; 3,600 ft; 0.5 mil . . . . . \$7.99-\$6.39 each  
**Concertape.** Polyester Base.  
 7" reel; 1,800 ft; 1.0 mil . . . . . \$2.49 each

## 8-Track Cartridges

**Supertape.** 90 mins total time.  
 1-11 cartridges . . . . . \$3.99 each  
 12-24 cartridges . . . . . \$3.49 each  
 25-49 cartridges . . . . . \$3.19 each  
 50+ cartridges . . . . . \$2.99 each  
**Low Noise.** Polyester base. 40 mins.  
 1-11 cartridges . . . . . \$1.99 each  
 12-24 cartridges . . . . . \$1.79 each  
 25-49 cartridges . . . . . \$1.59 each  
 50+ cartridges . . . . . \$1.39 each  
**Low Noise.** Polyester base. 80 mins.  
 1-11 cartridges . . . . . \$2.69 each  
 12-24 cartridges . . . . . \$2.39 each  
 25-49 cartridges . . . . . \$2.15 each  
 50+ cartridges . . . . . \$1.89 each

## Microcassettes

**Micro-90.** Max-length microcassettes record 90 mins at 2.4 cm/sec or 180 mins at 1.2 cm/sec. For capstan-drive recorders. 1-9 tapes. . . . . \$6.95 each  
**Micro-90.** 10 or more tapes. . . . . \$5.95 each  
**Micro-60.** Records 60 minutes at 2.4 cm/sec and 120 mins at 1.2 cm/sec. For capstan-drive recorders. 1-9 tapes . . . . . \$3.49 each  
**Micro-60.** 10 or more tapes. . . . . \$2.99 each

## Minicassettes

**Mini-30.** For rim-drive cassette recorders such as Realistic Minisette. 30-minute recording time. 1-9 tapes . . . . . \$2.89 each  
**Mini-30.** 10 or more tapes. . . . . \$2.49 each

## RECOTON

### Gold Series XR90

Features low noise; high energy; normal bias; 90 minutes. Sold in ten packs. . . . . \$9.99

## SCOTCH

### XSM IV Cassettes

*Fine metal magnetic particle formulation; delivers maximum output up to 10 dB better than typical oxide tapes and up to 7 dB greater than chrome tapes; low distortion, added high-frequency response, and improved S/N ratio.*

90 min . . . . . \$6.99  
 60 min . . . . . \$5.49

### XS II Cassettes

*Features redeveloped premium grade formula with improved signal-to-noise ratio; less tape hiss; dual-layer, cobalt-modified ferric oxide; for use with recorders in the chrome or 70  $\mu$ sec equalization position; improved shell for critical mechanical performance and 3-head equipment.*

90 min . . . . . \$3.79  
 60 min . . . . . \$2.99

### CX Cassettes

*Normal-bias ferric oxide cassette featuring improved low frequency output and clarity. 6-screw impact polymer shell houses an inner assembly with specially made low-friction roller guides; album package.*

90 min . . . . . \$2.99  
 60 min . . . . . \$2.40

### BX Cassettes

*Ferric-oxide formulation for all-purpose cassette use; polyester base. 5-screw impact polymer shell.*

90 min . . . . . \$1.95  
 60 min . . . . . \$1.69

## SONY

### ES Metal Cassette

Type-IV position (70 microsecond equalization); met-

al-particle formulation.

ES-90. 90 min . . . . . \$9.99

### UX Series Cassettes

Type-II position (70 microsecond equalization)

UX-Pro. C-90 . . . . . \$7.99  
 UX-Pro. C-60 . . . . . \$5.99  
 UX-ES. C-90 . . . . . \$5.49  
 UX-S. C-90 . . . . . \$3.99  
 UX-ES. C-60 . . . . . \$3.99  
 UX. C-90 . . . . . \$3.29  
 UX-S. C-60 . . . . . \$2.99  
 UX. C-60 . . . . . \$2.49

### HF-S Series Cassettes

Type I position (Normal bias, 120 microsecond equalization)

HF-S 90. 90 min . . . . . \$2.69  
 HF-S 60. 60 min . . . . . \$1.99

### HF Series Cassettes

Type I position (Normal bias, 120 microsecond equalization)

HF 120. 120 min . . . . . \$2.99  
 HF 90 90 min . . . . . \$2.29  
 HF 60. 60 min . . . . . \$1.70  
 HF 46. 46 min . . . . . \$1.45

## TDK

### MA-XG Metal-Alloy (Type IV) Cassette Tape

*Metal bias; 70-sec EQ; 3-layer RS-11 vibration-damping mechanism designed to eliminate sympathetic vibrations for reduced modulation noise.*

MA-XG 90. 45 min each side . . . . . \$9.25  
 MA-XG 60. 30 min each side . . . . . \$7

### MA-X Metal-Alloy (Type IV) Cassette Tape

*Metal bias; 70-sec EQ; 2-layer plastic mechanism; improved Finavinx formulation designed for superior output level and wide dynamic range.*

MA-X 90. 45 min each side . . . . . \$5  
 MA-X 60. 30 min each side . . . . . \$4.25

### MA Metal-Alloy (Type IV) Cassette Tape

*Metal bias; 70-sec EQ; Laboratory Standard mechanism.*

MA-90. 45 min each side . . . . . \$4  
 MA-60. 30 min each side . . . . . \$3.50

### SA-XG High-Bias (Type I) Cassette Tape

*RS-II high-performance cassette mechanism; Super Avilyn formulation.*

SA-XG 90. 45 min each side . . . . . \$9.25  
 SA-XG 60. 30 min each side . . . . . \$7

### SA-X High-Bias (Type II) Cassette Tape

*2-layer shell; dual-coated Super-Avilyn formulation; 70-sec EQ.*

SA-X 90. 45 min each side . . . . . \$3.50  
 SA-X 60. 30 min each side . . . . . \$3

### SA High-Bias (Type II) Cassette Tape

*Laboratory Standard Mechanism.*  
**SA Limited Edition.** Euro-style case, Super Avilyn 90 min tape . . . . . \$4.99  
 SA 90. 45 min each side . . . . . \$2.50  
 SA 60. 30 min each side . . . . . \$2.25

### AD-X Normal-Bias (Type I) Cassette Tape

*Super Avilyn particle for extra headroom; Laboratory Standard Mechanism. 120- $\mu$ sec EQ.*

AD-X 90. 45 min each side . . . . . \$3  
 AD-X 60. 30 min each side . . . . . \$2.50

### AD-S Normal-Bias (Type I) Cassette Tape

*Rigid plastic C-Thru mechanism designed to control resonances. 120-sec EQ.*

AD-S90. 45 min each side . . . . . \$2.50

### AD Normal-Bias (Type I) Cassette Tape

*Linear ferric-oxide particles; Laboratory Standard Mechanism. 120-sec EQ.*

AD-90. 45 min each side . . . . . \$2.50  
 AD-60. 30 min each side . . . . . \$2.25

### D (Dynamic) Cassette Tape

*Normal bias; 120-sec EQ; precision mechanism.*

D-90. 90 min each side . . . . . \$2  
 D-60. 30 min each side . . . . . \$1.75  
 D-46. 23 min each side . . . . . \$1.60  
 D-30. 15 min each side . . . . . \$1.50

### DA Digital Audio Tape Cassette

*Super Finavinx pure-metal particle formulation with high-durability TDC (Three Dimensional Compound) binder.*

DA-R60. 30 min each side . . . . . \$10  
 DA-R90. 45 min each side . . . . . \$12  
 DA-R120. 60 min each side . . . . . \$14

### Microcassettes

D-MC60B3. Same dynamic formulation as standard-size cassettes. Low noise for speech recording. 60 min ea; 3-pack . . . . . \$9

## TRIAD

### Cassette Tape

MG-X90. Metal bias (type IV); EQ 3180 $\mu$ s/70 $\mu$ s; recording time 45 mins x 2; FR 10,000 Hz +0 dB; MOL 315 Hz +5.0 dB; SOL 10,000 Hz -10 dB; retentivity 3300 G; coercivity 1150 Oe. . . . . \$5.99  
 CD-IV. Metal bias; recording time 76 mins total \$5.79  
 CD-II 102. Chrome tape with exclusive metal alloy; recording time 120 mins total . . . . . \$5.99  
 CD-II 76. As above with recording time 76 mins total . . . . . \$5.39  
 EM-X90. High bias (type II); EQ 3180 $\mu$ s/70 $\mu$ s; recording time 45 mins x 2; FR 10,000 Hz +0.5 dB; MOL 315 Hz +5.0 dB; SOL 10,000 Hz -3.0 dB; retentivity 3100 G; coercivity 720 Oe. . . . . \$4.99  
 F-X90. Normal bias (type I); EQ 3180 $\mu$ s/120 $\mu$ s; recording time 45 mins x 2; FR 10,000 Hz +3.0 dB; MOL 315 Hz +5.5 dB; SOL 10,000 Hz -6.0 dB; retentivity 1800 G; coercivity 380 Oe. . . . . \$3.99

## VISA BY INTERWORLD ELECTRONICS INC.

### UCX-II-S High Tech Turbo

*High-bias cassette tape with ultra-refined CrO<sub>2</sub> coating and special housing.*

90 min . . . . . \$4.99  
 60 min . . . . . \$3.49

### UCX-II High Tech Turbo

*High-bias cassette tape.*

90 min . . . . . \$3.99  
 60 min . . . . . \$2.99

### UFX-I High Tech Turbo

*Ferric cassette tape with clear housing.*

90 min . . . . . \$3.99  
 60 min . . . . . \$2.99

### CX-II Professional Tape

*High-bias cassette tape.*

90 min . . . . . \$3.49  
 60 min . . . . . \$2.49

### FDX-I Professional Tape

*Ferric cassette tape.*

90 min . . . . . \$2.79  
 60 min . . . . . \$1.99

### Extra Performance II Tape

*High-bias cassette tape.*

90 min . . . . . \$2.49  
 60 min . . . . . \$1.99

### High Performance I Tape

*Ferric cassette tape with iron dioxide coating. Comes in transparent, hinged case.*

90 min . . . . . \$1.99  
 60 min . . . . . \$1.59



# AUDIO GLOSSARY

*Note: Words in italics are defined elsewhere in the glossary.*

**AC (alternating current):** The current available from the power outlets in American homes; it alternates direction sixty times a second.

**acoustic-suspension:** A type of *infinite-baffle speaker* that uses the air pressure inside a sealed speaker box to control driver motion. It has no *port* or opening.

**AM (amplitude modulation):** A *band* of radio frequencies that carries information by changing the strength of the signal. Most AM broadcasts are in *mono*, but many stations are adding equipment to broadcast *stereo* AM programs. You must have an *AM-stereo tuner* to receive them in stereo.

**amplifier:** A separate component, or a section built into an integrated component, that strengthens the electrical signal (increases its amplitude). A *power amplifier* must be connected to a *preamplifier* (or "control amplifier") to switch and process the sound. An *integrated amplifier* combines power-amplifier and preamplifier functions in the same unit. A *receiver* adds an *AM/FM tuner* to the integrated-amplifier configuration.

**analog:** Type of audio component or recording medium that operates with signals whose waveforms are directly analogous to the sounds they represent; see *digital*.

**antenna:** A metallic structure (usually a wire or rod) that receives radio or television broadcast signals over the air and sends them to a *tuner* for processing.

**automatic turntable:** One that sets the *stylus* onto a *record* to begin play and removes it at the end of play without the user having to touch the *tonearm*.

**autoreverse:** A feature of some *cassette decks* that allows them to play or

record both sides of a *cassette* without the user having to turn it over manually.

**AUX (auxiliary):** An input jack found on some *receivers*, *integrated amplifiers*, and *preamplifiers* that can be used to connect *source* components such as a *compact disc player* or a *cassette deck* but not *turntables*, which require special *phono* inputs.

**azimuth:** The angle between the actual recorded information and the edge of the audio tape. While the azimuth angle is theoretically set at 90 degrees, azimuth often varies from one tape deck to another.

**balance:** A control found on some *receivers*, *integrated amplifiers*, and *preamplifiers* that changes the relative volume of the left and right channels.

**band:** A particular segment of a *frequency* spectrum. For example, a *graphic equalizer* may divide the audio frequency spectrum into ten bands, with one control to adjust the relative volume of each band. The *AM* and *FM* bands are distinct parts of the *RF (radio frequency)* spectrum.

**bass:** The lower frequencies in the audio spectrum, such as those produced by a string bass or bass guitar. An instrument producing bass tones vibrates air more slowly than one producing *treble* tones.

**bass reflex:** A type of *speaker* system that has an opening, called a *vent* or *port*, in its enclosure so that the sounds produced by the backward motion of the *bass driver(s)* reinforce those produced by their forward motion, which come out of the front.

**belt drive:** A method of rotating the platter of a *turntable* by means of a belt, usually made of rubber, that connects the turntable's motor to the platter.

**bias:** A very high-frequency signal

added to an audio signal being recorded on tape to reduce *distortion*. Type I (normal or ferric) tape requires less bias than Type II (chrome or chrome-equivalent) or Type IV (metal) tape.

**cantilever:** The rod or tube in a *phono cartridge* that supports the *stylus*, and transfers the stylus's motion to the signal-generating elements of the cartridge.

**capstan:** A rotating shaft in a tape recorder that pulls the tape across the *heads*. The tape usually travels between the capstan and the pinch-roller. A dual-capstan machine has two capstans; see *closed-loop*.

**capture ratio:** An important *specification* for an *FM tuner*, it indicates the minimum ratio between the strengths of two *FM signals* at the same *frequency* that enables the tuner to suppress the weaker signal by 30 *dB*. Smaller numbers indicate better performance.

**cardioid:** A heart-shaped polar response of a *microphone*, with strong rejection signals arriving from the rear.

**cartridge, or phono cartridge:** A small component mounted on the end of the *tonearm* in a *turntable*; it holds the *stylus*, which vibrates in the *record groove*. The cartridge converts the vibrations into a changing electrical current, or audio signal.

**cassette:** A kind of magnetic-tape cartridge containing two reels.

**cassette deck:** An *analog* component that uses standard-size audio *cassettes* for recording and playback; also known as *tape deck*. Audio signals are recorded onto, or played back from, the magnetic tape contained in the cassette; see *heads*.

**CD (compact disc):** A 4.8-inch plastic-coated, metalized disc that stores up to 75 minutes of *digitally* recorded music. The non-recordable disc con-

tains microscopic pits that are read by an optical laser pickup in a *compact disc player*. Each microscopic pit contains digitally encoded audio information.

**CD (compact disc) player:** A digital audio component based on the *PCM* recording system that plays back *compact discs*. Unlike *turntables*, which play back conventional vinyl records, a CD player has no *stylus* and therefore makes no contact with the disc. Rather, a laser mechanism optically reads information contained on the CD.

**CD video (CDV):** A *compact disc* that combines up to twenty minutes of digital audio with approximately five minutes of video. CDV's are gold-colored to distinguish them from silver-colored, audio-only CD's.

**channel:** A distinct path for an audio signal. Stereo signals consist of two channels, left and right, which are sent to left and right *speakers* (or headphones), respectively (see *separation*). A *surround-sound* system adds one or more additional channels, usually for the rear. *Mono* (or monophonic) signals have only one channel.

**closed-loop:** A drive system used in tape decks in which the tape is pulled by dual *capstans*, one on either side of the *heads*, so the part of the tape being played or recorded is held taut and fully isolated from the hubs.

**compliance:** A measurement of how easily the *stylus* of a *phono cartridge* can be moved by the grooves of a record. A high-compliance cartridge has a more flexible stylus than a low-compliance cartridge.

**crossover, or crossover network:** A circuit that divides lower-frequency sounds from higher-frequency sounds. Crossovers are used in *speakers* that have more than one *driver*. In a two-way speaker system, for instance, the crossover sends the low frequencies to the *woofer* and the high frequencies to the *tweeter*. Crossovers are also available as separate components for use in more elaborate systems.

**crossover frequency or crossover point:** In a *crossover network*, the frequency at which audio signals are divided so they can be routed to the

appropriate *driver* (low frequencies to a *woofer* and high frequencies to a *tweeter*, for example).

**damping:** The application of mechanical resistance, such as a rubber or silicone material, to the *cantilever* pivot to reduce the amplitude of a resonance.

**DAT (digital audio tape):** A *cassette* that is about half the size of a standard audio cassette. The cassette shell houses a reel of magnetic tape that contains *digitally* encoded audio information.

**DAT (digital audio tape) deck:** A digital recording/playback component that is based on the *PCM* recording system. Digitally encoded audio information is recorded onto, and retrieved from, magnetic tape. DAT recorders use a transport mechanism similar to ones found in *analog cassette* decks.

**dB (decibel):** The common unit used to measure the *volume* of sound or an electrical signal that represents sound (also called loudness or amplitude). The decibel is a logarithmic ratio of two power levels. When *sound-pressure level (SPL)* is measured in decibels, for example, a whisper is about 40 dB and a jet engine about 120 dB. The decibel scale is logarithmic, meaning that an increase of 10 dB represents a tenfold increase in power: it takes ten times as much energy to produce an SPL of 80 dB as one of 70 dB, even though 80 dB is subjectively only twice as loud as 70 dB. Doubling the power raises the SPL by about 3 dB; cutting the power in half reduces the volume about 3 dB. Doubling or halving the volume requires a change in SPL of about 10 dB.

**dBf:** One *decibel* referred to a standard power level of one femtowatt (one quadrillionth of a watt).

**dbx:** Ordinarily, a *noise-reduction* system—more precisely known as dbx II—developed by the dbx company and used in some *cassette decks*. This system reduces the *dynamic range* of the audio signal during recording, making the soft parts of the music louder and the loud parts softer. During playback, the processing is reversed, restoring the original dynamic range and reducing the *noise* added by the tape. The dbx I system is

used in professional studio tape recorders. Another type of dbx noise reduction is used in the *MTS* stereo-TV broadcasting system.

**DC (direct current):** Electricity that flows in one direction only; see *AC* (*alternating current*).

**de-emphasis:** A form of *equalization* used in *FM tuners* that is complementary to a pre-emphasis used in transmission. The purpose is to improve the overall *S/N ratio* (*signal-to-noise*), while maintaining a uniform *frequency response*. Some *compact discs* also are processed with a *frequency* pre-emphasis; these discs automatically engage de-emphasis circuits in the player.

**defeat:** To bypass a *signal-processing* feature, removing it entirely from the circuit. *Tone controls* are sometimes accompanied by a tone-defeat switch, which enables the user to eliminate their effects without changing their settings, allowing easy comparisons of the sound with and without tone-control modifications.

**digital:** A digit is a number, and digital components use numbers in some way. A digital tuner, for example, may only use numbers on its front-panel display, or it may use digital-synthesis tuning circuits for improved reception. *Compact discs* contain a pattern representing a series of binary numbers (strings of ones and zeros); a CD player converts these numbers into a continuously changing current that represents the sound of the master recording. *Digital audio tape (DAT)* recorders turn *analog* input signals into binary numbers and record these on tape; for playback, the numbers are read from the tape and converted into an analog signal.

**dipole:** A type of *speaker* that radiates as much sound from its rear as from its front.

**dipole antenna:** A type of *antenna* that receives radio broadcasts from two directions. A T-shaped, folded dipole antenna is often supplied when you buy a *tuner* or *receiver*.

**direct-drive:** A method of rotating a *turntable* platter by using the motor shaft as the platter spindle.

**dispersion:** The spread of a speaker's



high-frequency output, measured in degrees.

**distortion:** An unwanted alteration in an audio signal; also see *THD (total harmonic distortion)*, *noise*, and *IM (intermodulation)*.

**dither:** Very low-level *noise* added to a signal being digitized to reduce the high-order *distortion* caused by *quantizing* very low-level audio signals. See *quantization*.

**Dolby B and Dolby C:** *Noise-reduction (NR)* systems designed and licensed by Dolby Laboratories for use in consumer tape recorders. They work by making the high sounds softer during recording and louder during playback. Dolby C is more effective than Dolby B, but Dolby B is more common.

**Dolby HX Pro:** A special circuit for tape recorders—the HX stands for headroom extension—that lowers the amount of *bias* added during recording when the signal being recorded already has a lot of high frequencies. This allows high frequencies to be recorded at higher levels with less *distortion*.

**Dolby Surround:** A system developed for movie theaters, now available in add-on home components and in some audio/video receivers, that adds two more audio channels (center-front and rear) to the ordinary right and left *stereo* channels. To derive the extra channels, a Dolby Surround decoder adds the left- and right-channel signals together for the center-front channel and subtracts them from each other for the rear channel, usually sent to two rear speakers.

**driver:** Any individual speaker within a system, such as a *woofer* or *tweeter*.

**dubbing:** The process of making a recording of another recording. A dubbing cassette deck can record from one tape in one transport to another in a second transport. Dubbing can be done with two single-transport decks or one dual-transport deck.

**dynamic range:** The difference, in decibels (*dB*), between the softest and the loudest possible sounds that a component can produce. Higher ratings are better because they indicate that the component can more accurately reproduce the full dynamics of

recorded music that is played through it.

**effective mass:** A measurement of how a tonearm resists motion. Tonearms must move freely to follow the groove of a record, and lighter tonearms usually perform this task better than heavy ones.

**efficiency:** The percentage of the electrical input power to a speaker that is converted to acoustic energy. Usually specified for speakers, an efficiency measurement can be helpful when matching an amplifier to a particular speaker. Speaker efficiency can range from a fraction of 1 percent to as much as 10 percent or more. Note that efficiency indicates nothing about sound quality, only quantity of acoustic energy for a given input power. A more common way of expressing speaker efficiency is *sensitivity*.

**electrostatic:** Speakers and headphones that use a method of producing sound by moving a flat diaphragm suspended in a high-voltage electrical field.

**elliptical stylus:** A stylus whose cross section, as seen from above, is an ellipse placed across the record groove. This type of stylus traces the finer high-frequency modulations of a record groove more accurately than a *spherical stylus*.

**EQ (equalization):** The process of changing the relative volume levels of different segments of the audio frequency spectrum to compensate for losses or *distortion* at some stage of recording or reproduction. For instance, the output from speakers can be equalized to compensate for room acoustics. *Phono signals* require a specific type of playback equalization because of the equalization built into the process of cutting a record.

**equalizer:** A component, or part of a component, that is used to equalize (see *EQ*) an audio signal received from a source component by dividing the signal into various separately adjustable bands. The most common type is the graphic equalizer, which derives its name from the way its sliding controls make a rough graph of the selected frequency changes on its front panel.

**expander:** A device used to restore

natural *dynamic range*. This is achieved by counteracting the compression of dynamic range that occurs when recordings are made and when a signal is broadcast.

**filter:** A circuit that removes or attenuates a specific part of an audio signal. A subsonic (or infrasonic) filter removes low frequencies. Some cassette decks have *MPX* filters to remove the 19,000-Hz stereo pilot tone from *FM* broadcasts. *Tone controls* and *equalizers* are adjustable filters.

**flutter:** A wavering sound caused by abrupt changes in the speed of electro-mechanical components such as turntables and cassette decks. Expressed as a percentage of variation from the correct speed, flutter measurements are usually combined with *wow* measurements in a single *wow-and-flutter (W&F)* specification. Lower figures are better.

**FM (frequency modulation):** A type of radio broadcasting that carries audio information by changing the frequency of the broadcast signal. An FM station with a center frequency of 88.1 MHz will actually broadcast a signal that changes from slightly less than 88.1 MHz to slightly more according to the waveform being broadcast.

**frequency:** How often something vibrates or changes. Sounds are vibrations and can be represented by electrical signals that change at different rates; a low-pitched sound is represented by a slowly changing current, while a high-pitched sound is represented by a quickly changing current. Frequency is measured in cycles per second, or *hertz* (abbreviated *Hz*). Most people can hear notes as low as about 20 Hz and as high as 15,000 or 20,000 Hz. In radio, frequency refers to the wavelength of the carrier signal of the station, such as 88.1 MHz for an FM station or 1,010 kHz for an AM station.

**frequency balance:** The relative volume of different segments of the audio frequency range, from low *bass* to high *treble*.

**frequency response:** This important specification indicates how evenly a component reproduces different frequencies. A typical spec might be 20 to 20,000 Hz  $\pm$  3 dB, which means that the component will reproduce sounds

as low as 20 Hz and as high as 20,000 Hz, and all those in between, not more than 3 dB too loud or too soft. If a frequency-response specification does not include a tolerance (the plus-or-minus decibel figure), it is essentially meaningless.

**graphic equalizer:** see *equalizer*.

**head amp:** see *MC (moving-coil)*.

**heads:** The parts of a tape deck that impose a magnetic pattern on a tape (for recording) or detect one that is already there (playback). Most audio decks also have another head for erasing tapes, or randomizing the magnetic pattern on the tape so that a new one can be recorded. The heads of *analog* recorders are stationary, but those of *digital audio tape (DAT)* recorders rotate like the helical heads in VCR's.

**HX Pro:** see *Dolby HX Pro*.

**Hz (hertz):** The standard unit of *frequency*, named after the German physicist Heinrich Hertz. Measurements in hertz represent cycles per second, that is, changes away from a basic state and back again. In audio, the basic state is defined either as ordinary air pressure (without sound) or its electrical equivalent (a zero-level *signal*).

**IF (intermediate frequency) rejection:** The ability of a superheterodyne *AM* or *FM* tuner's IF circuits to reject external interference at the intermediate *frequency*.

**image rejection:** The ability of a *tuner* to ignore *signals* removed from the desired *frequency* by twice the intermediate *frequency* (10.7 MHz in home *FM* receivers, 455 kHz in home *AM* receivers.)

**IM (intermodulation) distortion:** When a two-tone test *signal* is used, distortion components appear at *frequencies* that are sums and differences of multiples of the input frequencies. Their magnitude is expressed as IM distortion, which is more distressing to the ear than *THD (total harmonic distortion)*. As with all types of distortion, lower figures are better.

**impedance (imp):** Measurement, in *ohms*, of the total opposition (resistance and reactance) that a compo-

nent has to electrical power; usually found in discussions of speakers.

**infinite-baffle:** A type of *speaker* where the back wave produced by the *driver* is prevented from interfering with the front wave, usually by placing the driver in a sealed enclosure. See *acoustic-suspension*.

**infrared:** A part of the electromagnetic spectrum that is invisible to the human eye. Infrared *frequencies* are used by wireless remote controls to send *signals* to the components they control.

**integrated amplifier:** A component that performs the functions of both a *preamplifier* and a *power amplifier*.

**isolation:** The separation between a structure and everything surrounding it; usually in reference to *turntable tonearms* and platters.

**kHz (kilohertz):** 1,000 Hz.

**LaserDisc:** Pioneer's trademark for a laser-read videodisc system. (Other videodisc formats are no longer available in the U.S.) LaserDisc players are similar to *CD (compact disc) players*, therefore combination units that play both kinds of discs as well as the new *CD videos* are available.

**LCD (liquid-crystal display):** A type of electronic readout that does not generate its own light and, therefore, uses very little power.

**LED (light-emitting diode):** An electronic readout that produces its own light.

**linear-tracking tonearm:** A type of *tonearm* that moves in a straight line across the radius of a record; see *pivoted tonearm*.

**logic:** In *cassette decks*, the ability to switch from one transport function, such as fast forward, to another, such as rewind, without first pressing the stop button; doing this in decks without logic controls can damage the tape. In a *surround-sound* system, logic circuits are used to process encoded *signals*.

**loudness compensation:** A form of *equalization* that progressively emphasizes low *frequencies* (and sometimes high frequencies) as *volume* is

reduced. Loudness-compensation circuits, which appear in some preamplifiers and receivers, compensate for the human ear's loss of sensitivity as the sound level decreases.

**magnetic cartridge:** A *phono cartridge* that generates an audio *signal* from the relative motions of a magnetic field and a coil or coils. The output is proportionate to the velocity of the stylus motion. See *MC (moving coil)* and *MM (moving magnet)*.

**matrix:** Circuits in *surround-sound* processors that can synthesize a rear *channel* for ambience even if the original recording consists only of left and right *stereo* channels.

**MC (moving-coil):** A type of *phono cartridge* in which the magnets are stationary and the coils where the *signal* is generated move in response to the motions of the *stylus* in the *record* groove. Some MC cartridges produce very little current, and their output must be amplified to standard levels by a "head amp" or pre-*preamplifier* before further processing by a *phono-preamplifier* section.

**MHz (megahertz):** One million Hz.

**microphone:** An electroacoustic pickup device that converts acoustical energy—such as live music or a voice—into an electrical *signal* that is essentially equivalent in shape and amplitude to the acoustical input.

**midbass:** The segment of the audio *frequency* spectrum covering sounds produced in the upper *bass* and lower *midrange* region; special midbass drivers can be used to reproduce these frequencies.

**midrange:** The segment of the audio *frequency* spectrum between the *bass* and *treble* frequencies. The midrange includes most voices and the fundamental tones produced by most musical instruments. Midrange drivers reproduce sounds in this frequency range.

**MM (moving magnet):** The most common type of phonograph *cartridge*. A moving-magnet cartridge has magnets attached to the interior end of its *cantilever*. The *stylus* motion causes these magnets to move near coils of wire, generating an electric current representing the audio *signal*.



**mono (or monophonic):** An audio *signal* in which all the information is combined in one channel; also, a component that handles only one channel, such as a *mono amplifier* (used in pairs for *stereo* programs).

**MPX (multiplex):** A method of combining two or more *signals* into one. Some tape decks have an *MPX filter* that removes the 19,000 Hz pilot tone from *stereo FM* broadcasts.

**MTS (multichannel television sound):** The system devised by Zenith and dbx for *stereo TV* broadcasting in the United States. An MTS decoder, which may be built into an audio or video component, receives *stereo broadcasts* and produces *stereo signals* from them. See *SAP*.

**multipath:** A condition that occurs when a broadcast radio *signal* reaches the *antenna* over two or more paths of different lengths. The result is *interference* that causes *distortion* and a loss of *stereo channel separation*.

**mV (millivolt):** One thousandth of a volt.

**μs (microsecond):** One millionth of a second.

**μV (microvolt):** One millionth of a volt.

**noise:** An unwanted part of a processed *signal* that is not related to the original signal. Audio noise usually sounds like hiss.

**NR (noise reduction):** A system designed to reduce the *noise* added to an *audio signal* during recording. See *dbx* and *Dolby*.

**ohm:** The basic unit of *impedance*.

**output level:** A measure of how strong a *signal* produced by a component is, usually in relation to the strength of the signal put into it.

**oversampling:** A *digital filtering* technique used in some *compact disc players*. The 44.1-kHz *signal* from the *CD* is sampled at some multiple of that *frequency* (usually two or four times), which raises the frequencies of any spurious *signals* created by the *digital* recording process well above the audio range. The spurious signals are then removed by an *analog filter*

with a gentle slope, which is said to cause fewer phase irregularities than the sharp-cutoff filter required when oversampling isn't used.

**passive radiator:** An unpowered *speaker* assembly that is placed in the port of a vented enclosure system to produce a more uniform sound wave. Also called a "drone cone" or "slave cone."

**PCM (pulse-code modulation):** A system of recording that encodes an *audio signal* in a series of binary numbers (ones and zeros). *Compact disc players*, *digital audio tape (DAT)* decks, and digital signal processors all use PCM encoding.

**peak indicator:** Usually a flashing *LED* on a tape recorder that indicates when transient *signal* levels have exceeded the recorder's ability to handle them without *distortion*; a supplement to *recording-level meters*.

**peak-reading meter:** A *recording-level meter* that rises rapidly and declines at a moderate speed so the user can judge the levels of transient peak waveforms.

**phono:** Abbreviation for "phonograph"; used to refer to the low-level *signals* produced by a *phono cartridge* and to the phono input where a *turntable* is connected to a *preamplifier*, *integrated amplifier*, or *receiver*. Phono inputs use *RCA connectors*, sometimes called phono plugs.

**piezoelectric (cartridge):** A *phono cartridge* with a ceramic, crystal, or electret generating element that produces electricity when bent, twisted, or stressed. The cartridge's *output*, which can be fairly high, is proportionate to the amplitude of the *stylus* motion, rather than *stylus velocity*. See *magnetic cartridge*.

**piezoelectric speaker:** A speaker principle used in some *tweeters* that employs a ceramic element which expands or bends when fed a signal voltage. This deflection generates sound.

**pivoted tonearm:** The most common type of *tonearm*, it swivels on a fixed point so that the *cartridge* it holds can track the *record groove* from edge to center along a shallow arc. See *linear-tracking tonearm*.

**PLL (phase-locked loop):** A type of *tuner* circuit that improves reception of radio broadcasts by locking the received *frequency* to a synthesized reference frequency, which is usually generated by a quartz crystal.

**P-mount:** A standardized type of *phono cartridge* that plugs into a specific kind of *tonearm*; it requires no adjustment or calibration.

**port:** An opening in a *bass-reflex* speaker system that allows the sound wave from the back of a *driver* to reinforce the sound wave from the front.

**power amplifier:** A component that takes the *audio signal* from a *preamplifier* and makes it strong enough to drive *speakers*.

**preamplifier:** A component that switches and processes *audio signals* from source components. Typically, preamplifiers amplify only the low-level phono signals from *turntables* (more precisely, from *phono cartridges*), raising them to the same level as signals from other source components (called "line level") and applying the necessary *RIAA equalization*.

**preset:** On a *tuner* or *receiver*, a memory position where the *frequency* of a selected radio station can be entered for instant recall.

**programming:** Giving a component instructions to carry out at a later time. For instance, many *compact disc players* can be programmed to play selected tracks in any order.

**quantization:** In a digital *audio signal*, the number of possible values available to represent various levels of amplitude. In a *CD (compact disc)* system, the resolution of the quantization is 16 bits, which means that each sample can have any value between zero and 65,535. Higher figures are better because they allow for more accuracy. See *sampling frequency*.

**quartz-synthesis:** See *PLL*.

**random access:** The ability to go directly to the beginning of a song, track, or program without having to scan the intervening material; the process is usually initiated using numbered buttons on a component's front panel or remote control.

**RCA connector:** The most common kind of connector for home audio systems, using small, one-pin *phono* plugs. The cables usually come in pairs, with the right *channel* marked in red and the left channel in black, gray, or white.

**receiver:** An audio component that performs three basic functions: receiving radio broadcasts, switching and processing audio *signals*, and amplifying the selected signal so it can drive *speakers*.

**record:** A 12-inch vinyl disc, also known as an LP or long-playing record, with intricate grooves that contain analog audio information. By vibrating in these grooves, the *stylus* of a *phono cartridge* converts mechanical information into a usable audio *signal* that can be amplified and sent to a pair of *speakers*. Seven-inch vinyl discs are called 45-rpm records, or singles.

**recording-level meter:** An indicator on a tape recorder that displays the signal levels being recorded onto tape from moment to moment; used to set proper recording levels.

**RF (radio-frequency):** The very high-frequency *signals* used to broadcast radio programs.

**RFI (radio-frequency interference):** Noise created in audio systems by interference from strong, nearby radio broadcasts.

**RIAA:** The Recording Industry Association of America, which has set standards for the equalization used on phonograph records. Every record has reduced *bass* and boosted *treble*, and these characteristics must be compensated for on playback by the *phono preamplifier*.

**ribbon speaker:** A form of high-frequency *driver* using a light ribbon suspended in a magnetic field that generates sound when current is passed through it.

**rms (root mean square):** A common method of averaging power measurements.

**rpm:** Revolutions per minute.

**rumble:** A measurement of how much motor noise is transmitted through a

*turntable* to the *cartridge*. Lower figures are better.

**sampling frequency (or rate):** In digital audio, the number of times a signal is sampled each second. The standard sampling rate for the *CD (compact disc)* format is 44.1 kHz, which means each second of sound is encoded by 44,100 numbers for each channel. Higher sampling rates are better because they can record higher frequencies.

**SAP (separate audio program):** A separate *mono channel* that is broadcast along with the two *stereo* channels in the *MTS* system for stereo TV. The SAP channel can be used for various purposes, such as providing an alternative soundtrack in a language different from that used on the primary channels.

**saturation:** A condition that occurs when an audio tape becomes fully magnetized and an increase in *signal* input level does not produce a corresponding increase in recorded level. Saturation also can occur in the magnetic structure of the tape *heads*.

**scan:** A *tuner* feature used to move quickly from one broadcast station to another, stopping on each *frequency* for a few seconds so the user can sample it. On *compact disc players*, the scan feature is used to move around quickly within a track, much like fast forward on a tape deck.

**selectivity (sel):** A *specification* that tells how well a *tuner* or *receiver* can differentiate between the selected broadcast *channel* and other stations using nearby *frequencies*. Adjacent-channel selectivity (adj-ch sel) measures rejection of signals from stations broadcasting on either side of the selected station; alternate-channel selectivity (alt-ch sel) measures rejection of signals from stations two channels away from the desired one. Higher numbers are better for both of these specifications.

**semiautomatic turntable:** A kind that lifts the *tonearm* from the record automatically at the end of a side; the *stylus* must be set onto the record by hand, however.

**sensitivity (sens):** A measurement of *speaker efficiency* that tells how much sound is produced 1 meter away from

the speaker with an input of 2.83 volts (1 watt into 8 ohms). Higher numbers are better.

**separation:** The difference, measured in *decibels (dB)*, between the left and right *channels* of an audio *signal*, indicating the amount of leakage between channels in a component. Higher figures are better.

**servo control:** A technique that forces the speed or position of a moving device into conformity with a desired speed or position. The speed of a servo-controlled *turntable* is established by a precision voltage or *frequency* standard to which it is compared. Automatic adjustments are made to minimize differences and ensure the correct *rpm*.

**signal:** An electrical current that is modulated (changed) to represent information.

**S/N (signal-to-noise ratio):** Measured in *decibels (dB)*, the difference in level between the loudest possible *signal* a component can produce and its residual *noise*. Higher figures are better.

**source:** The program *signal* that is being recorded or played back. Components provide program signals either by playing a recorded program (*turntables, cassette decks, compact disc players, etc.*) or receiving a broadcast program (*tuners and receivers*).

**specification (spec):** A numerical measurement of a component's performance as provided by the manufacturer.

**speaker (or loudspeaker):** A component that accepts audio *signals* from a *receiver* or *amplifier* and converts them into sound waves. Also called a *driver*.

**spherical stylus:** A *stylus* whose shape is conical; typically used in cheaper *cartridges*. The downward-facing point of the cone, which vibrates in the record groove, is rounded to a specified radius of curvature. See *elliptical*.

**SPL (sound-pressure level):** A measurement of acoustic energy, usually encountered in the *sensitivity* rating of a *speaker*. See *dB*.

**stereo:** The use of at least two separate



*channels* (signal paths) to create the illusion that music is being produced in the space between, and even beyond, a pair of *speakers*.

**stylus:** The needle-shaped material, usually diamond, at the end of the *cantilever* of a *phono cartridge*; it vibrates in record grooves, providing the cartridge with the energy needed to produce audio *signals*.

**subwoofer:** A separate *speaker* designed to reproduce only *bass* frequencies. Subwoofer systems sometimes contain an *amplifier* and a *crossover* network.

**supertweeter:** A *tweeter* used to reproduce only extremely high frequencies; usually found in four- or five-way speaker systems.

**surround sound:** See *Dolby Surround*.

**tape monitor:** A switch on a tape recorder that allows the user to listen to a tape as it is being recorded to insure proper recording; also may allow external signal processors to be used.

**THD (total harmonic distortion):** The percentage of an audio *signal* that consists of harmonics, or multiples of the fundamental *frequencies*. These harmonics are introduced by an *amplifier* or other component in its handling of the original signal. Lower figures are better.

**tonearm:** The cylindrical rod on a *turntable* that supports the *phono cartridge*. See *pivoted tonearm* and *linear-tracking tonearm*.

**tracking:** The ability of a *compact disc player* or *phono cartridge* to follow the pattern recorded on a *CD* or vinyl *record*.

**tracking error:** In playing a *record*, the *tonearm* should hold the *cartridge* as perpendicular to the record's surface as possible. Tracking error is expressed as the number of degrees away from perpendicular.

**tracking force:** The pressure of a *stylus* on a *record*, measured in grams.

**transport:** The parts of a tape deck that move the tape, including the motor(s), hubs, *capstan*(s), *pinch-roller*(s), and other mechanisms. In a

*compact disc player* or *turntable*, the transport system rotates the *CD* or *record*.

**treble:** The high part of the audio *frequency* range; see *bass* and *mid-range*.

**tuner:** A component that receives radio *signals* from an *antenna* and allows the user to select a specific station.

**turntable:** Also known as a *phono-graph* or *record player*, a turntable rotates vinyl records; see *cartridge* and *stylus*.

**tweeter:** A driver in a *speaker* system that is designed to reproduce *treble* sounds (high *frequencies*).

**two-way, three-way:** Refers to the number of *frequency* bands a *speaker* system's *output* is divided into. A two-way system typically has a *woofer* and a *tweeter*, a three-way system adds a *midrange* speaker to that configura-

tion. Systems up to five-way have been marketed.

**volume:** Usually expressed in *decibels* (*dB*), the strength of a sound wave or audio *signal*.

**W/ch (watts per channel):** A *specification* that indicates how much power an *amplifier* or *receiver* will deliver to each of a pair of *speakers*.

**W&F (wow-and-flutter):** A combined *specification* indicating the speed accuracy of mechanical components such as *turntables* and *cassette decks*. Lower figures are better. See *wow* and *flutter*.

**woofer:** A *driver* in a *speaker* system designed to reproduce the low, or *bass*, part of the audio *frequency* spectrum.

**wow:** A measurement of slow speed variations; usually combined with *flutter*, a measurement of fast speed variations. Lower figures are better.

## ABBREVIATIONS AND ACRONYMS

AC—alternating current  
A/D—analogue to digital  
AFC—automatic frequency control  
alt-ch—alternate channel  
amp—amplifier  
CD—compact disc  
CIRC—cross interleave Reed-Solomon code  
CrO<sub>2</sub>—chromium dioxide  
D/A—digital to analog  
DAT—digital audio tape  
dB—decibel  
dBf—decibel femtowatt  
DC—direct current  
EE—extra efficiency  
EFM—eight-to-fourteen modulation  
EIA—Electronic Industries Association  
EIAJ—Electronic Industries Association of Japan  
EQ—equalization  
F—farad  
FeCr—ferrichrome  
FET—field-effect transistor  
FR—frequency response  
g—gram(s)  
HD—harmonic distortion  
HX—headroom extension  
Hz—hertz (cycles per second)  
IC—integrated circuit  
IEC—International Electrotechnical Commission  
IEEE—Institute of Electrical

Electronic Engineers  
IF—intermediate frequency  
IHF—Institute of High Fidelity  
IM—intermodulation (distortion)  
imp—impedance  
IPS—inches per second  
k—one thousand  
kHz—kilohertz (one thousand cycles per second)  
LCD—liquid-crystal display  
LED—light-emitting diode  
L/R—left/right  
LSI—large-scale integrated (circuit)  
m—meter (as in SPL/W/m)  
m—milli (one thousandth, as in msec)  
Mb/sec—megabits per second  
MC—moving coil  
MM—moving magnet  
MNOS—metallic nitrogen-oxide semiconductor  
MOL—maximum output level  
MOSFET—metal-oxide semiconductor field-effect transistor  
mm—millimeter  
ms—millisecond  
mV—millivolt  
mW—milliwatt  
MPX—multiplex  
μ—micro (one millionth)

MSB—most significant bit  
NAB—National Association of Broadcasters  
nWb—nano Weber  
NR—noise reduction  
PCM—pulse-code modulation  
pF—picofarads  
PLL—phase-locked loop  
P-P—peak-to-peak, push pull  
RF—radio frequency  
RIAA—Recording Industry Association of America  
rms—root mean square  
RPM—revolutions per minute  
sel—selectivity  
sens—sensitivity  
sep—separation  
SMPTE—Society of Motion Picture and Television Engineers  
S/N—signal-to-noise ratio  
SPL—sound-pressure level  
THD—total harmonic distortion  
TIM—transient intermodulation  
V—volt(s)  
VU—volume unit  
W—watt(s)  
W&F—wow and flutter  
Wb—Weber  
wrms—weighted root mean square  
wtd—weighted

SAVE MONEY, TIME AND FREIGHT ON FAMOUS BRAND STEREO EQUIPMENT

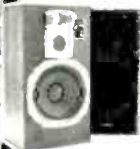


**illinois audio**

(800) 621-8042 / (312) 664-0020

12 E. DELAWARE PLACE • CHICAGO, IL 60611

**LOUDSPEAKERS**



**TECHNICS SBL-35**  
Powerful  
Loudspeaker System  
• Linear Phase 2-Way System • Large Diam. 10" Woofer • Anti-resonance cabinet • Attractive Woodgrain Finish  
List: \$80.00 ea.  
**SALE: \$41.00 ea.**

**E.P.I. CD55**  
3-Way Speaker System

• 12" Bass Driver • Wide Frequency Response • Constant Dispersion Design • Specially Designed High Efficiency Cabinet  
List: \$250.00 ea.  
**SALE: \$99.00 ea.**



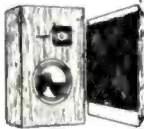
**TECHNICS SBK14**  
3-Way Speaker System

• 12" Woofer • Horn Super Tweeter • High Heat Resistance • Efficiency Bass Reflex Design • Heavy Duty Anti-Resonance Cabinet  
List: \$140.00 ea.  
**SALE: \$79.00 ea.**



**E.P.I. T/E 100II**  
2-Way Loudspeaker System

• Smoother High Freq. Response • Wide Dispersion • Oak Veneer Finish  
List: \$429.95  
**SALE: \$75.00 ea.**



**PORTABLES**

**TOSHIBA RT4048**  
AM/FM Stereo Radio  
Cassette Player

• Dolby B NR • Auto Reverse • 3 Band EQ • Built-In Stereo Tuner • Auto Shut-Off • Lightweight Headphones & Bell Clip Included  
List: \$89.95  
**SALE: \$55.00**



**SONY WMF-100II**  
Sony Super Walkman  
• AM/FM Stereo Cassette Player • X-ttra Small Size • Auto Reverse • Quick Charger • Dolby B NR  
List: \$199.95  
**SALE: \$129.95**



**SONY D-15**  
Discman Portable  
CD Player

• Ultra Small & Light Wt. • 21-track Random Music Sensor • 4 Repeat Modes • Unlink Car Converter w/Digital Filter  
**CALL FOR PRICE**



**AUTO**



**SONY ESS-93**  
6" x 9" 3-Way Car Speakers  
• Hi-Power • Oval Shape • 80 Watts Max. Power Handling  
List: \$109.95 Pair **SALE: \$66.00 Pair**



**SHERWOOD CRD350**  
Car Stereo with Cassette Deck  
• AM Stereo/FM Stereo Receiver • Full Logic Controlled • Dolby B/C NR • Auto Reverse • Built-In Amp. w/Balance & Fader • Local/Dist. Switch • Preset Scan • Clock • Security Cover  
List: \$329.95 **SALE: \$182.00**

**CASSETTE DECKS**



**TEAC V-285CHX**  
Stereo Cassette Deck  
• Dolby B, C & HX PRO NR • Bias Fine Tuning • Full Auto Stop Mech. • Metal Tape Comp. • 3-Pos. Tape Select • 3-Digit Tape Counter  
List: 149.95 **SALE: \$99.95**



**TEAC R435X**  
Auto Reverse Cassette Deck  
• Bi-Directional record and playback • Dolby B, C & dbx Noise Reduction • 3-position tape selector • Output level controls  
List: \$265.00 **SALE: \$149.95**



**TECHNICS RST-55R**  
Double Quick Reverse  
Cassette Deck  
• Auto Reverse on Both Tape Drives • 24 Hr. Contin. Playback • Hi-Speed Editing • Synchro Start, Stop & Mute • dbx, Dolby B & C  
**CALL FOR PRICE**



**TEAC W990RX**  
Auto Reverse Double Cassette Deck  
• Continuous Recording Playback • 3 Motor IC Logic • Wireless Remote Control • Sync. Reverse • 2-Speed Dubbing • Reverse Editing • Dolby B, C & dbx NR  
**CALL FOR PRICE**

**RECEIVERS**



**TECHNICS SA-918**  
Quartz Synthesizer  
AM/FM Stereo Receiver  
• 70 Watts (35x2) • 16 Memory Presets • Tape Mon. Switch • Bass & Treble Controls • Quartz Clock • Low Distortion  
List: \$240.00 **SALE: \$127.00**



**TECHNICS SAR-310**  
Quartz Synthesizer AM/FM  
Remote Stereo Receiver  
• 5-Band Eq. & Spectrum Analyzer • 24 Memory Presets • 40 Key Wireless Remote • 110 Watts (55x2)  
List: \$460.00 **SALE: \$249.95**



**AKAI AAV-405**  
Surround Sound Receiver  
• Remote Controlled • 200 Watts (100x2) • 7-Band EQ • Video Inputs • 16 Presets  
List: \$599.95 **SALE: \$389.00**



**JVC RX-999**  
Remote Controlled Receiver  
• 200 Watts (100x2) • Digital Dolby Surround Sound • 3 Video Inputs • Programm. 7 band EQ • Dig. Synth. Tuner • 80 presets • Preset Scan  
**CALL FOR PRICE**



**CD PLAYERS**



**SHARP DX-650**  
Compact Disc Player  
• 3-Beam Laser Pick-up • Programmable Memory • Cue/Review  
List: \$249.95 **SALE: \$119.95**



**TECHNICS SLP-420**  
Remote Controlled CD Player  
• High Resolution Digital Filter • Double Oversampling • High Speed Transport & Repeat • Programmable  
List: \$475.00 **SALE: \$219.95**



**SONY CDP-21**  
Compact Disc Player  
• Unilinear Converter w/Digital Filter • Env. Df. Detection Sys. • 16-Track Random Music Sensor • Auto Music Sensor • 4 Repeat Modes w/Shuffle Play  
List: \$250.00 **SALE: \$149.95**



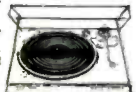
**TECHNICS SLP400C**  
Multi-Disc CD Changer  
• Programmable 6-Disc Changer/Player • Remote Control • 36 Step Random Access Program • Quadruple Oversampling Digital Filter • High Resolution Laser Pick-Up  
**CALL FOR PRICE**



**JVC XLM600**  
CD Multi Changer  
• 6-Disc Capability • Remote Control • Random Access Program. up to 32 steps from 7 discs • Repeat • Memory backup-up • 3 Beam Laser Pick-up and digital filter  
**CALL FOR PRICE**

**TURNTABLES**

**TECHNICS SLBD22**  
Bell Drive Semi-Automatic Turntable  
• TAP Cartridge Connect Sys. • Highly Sens. Gimbal Suspension Inboard • Anti Vibr. Construction • Pitch Control • Illum. Stroboscope  
**CALL FOR PRICE**



**TECHNICS SLDD33**  
Phase Locked Direct Drive Automatic Turntable  
• Highly Sensitive Gimbal Sus. Inboard • TAP Mount Carr. Connector System • Front Panel Oper.  
**CALL FOR PRICE**



**DUAL CS505-2**  
Bell Driven Semi-Automatic Turntable  
• Ultra Low Mass Inboard • Interchangeable V2 Mount Pick-Up Head • Fine Speed Adjustment • Anti-Resonance Mat • Two Scale Anti-Skate Device • Floating Chassis  
List: \$299.00 **SALE: \$199.95**



**HEADPHONES**

**KOSS PRO 4X**  
Lightweight Design • Pros Choice • Digital Ready  
List: \$90.00 **SALE: \$49.95**

**SENNHEISER HD414SL**  
Open Air • Innovative Design • Sound Isolating  
List: \$89.95 **SALE: \$49.95**

**SONY MDR CD6**  
Adjustable • Open Air • Digital Ready  
List: \$119.95 **SALE: \$79.00**

**AUDIO TAPE**

**TDK SA-90**  
Ultra Quiet Hi-bias tape  
10 for **\$16.50**

**SONY UX-PRO 90**  
High bias, perfect for live or digital recordings.  
10 for **\$24.89**

**MAXELL UDS1190**  
Standard Hi-Bias cassette  
10 for **\$16.95**

**MAXELL MX90**  
Metallaxial 90 min. Cassette  
10 for **\$29.95**

**CARTRIDGES**

**SURE V15-IVMR**  
Micro Ridge Standard Mount • Ultra Accurate Tracking • Dynamic Stabilizer  
List: \$140.00 **SALE: \$69.95**

**AT 122LP**  
Dual Magnet • Plug-In Connector • Linear Contact Diamond Stylus  
List: \$425.00 **SALE: \$49.95**

**SHURE V15MR**  
Ultra Accurate Tracking • Dynamic Stabilizer • Side-guard Protection  
List: \$275.00 **SALE: \$129.95**

**illinois audio**  
12 E. Delaware Pl., Chicago 60611

16 YEARS OF MEETING THE NATION'S STEREO NEEDS WITH THE ABSOLUTE BEST PRICES ON TOP NAME NATIONAL BRANDS  
Call Mon. thru Sat. 10 to 5 (312) 664-0020 • 1 (800) 621-8042



Prices in this ad are for mail-order only. Freight charges not included in prices. All merchandise shipped brand new, factory fresh with full warranty. Not responsible for typographical errors.



**NOTE:** This is just a partial listing of our extensive inventory, please call for quotes on additional items or to request a free price list.



# DIRECTORY OF MANUFACTURERS

## Accuphase (see Madrigal)

### Ace Audio

532 5th St.  
East Northport, NY 11731  
516-757-8990

### Acoustic Interface

P.O. Box 6632  
Santa Barbara, CA 93160  
805-964-0247

### Acoustic Research

330 Turnpike St.  
Canton, MA 02021-2703  
617-821-2300

### Acoustic Sciences

P.O. Box 1189  
Eugene, OR 97440  
800-272-8823

### ADC

851 Traeger Ave.  
San Bruno, CA 94066  
415-266-8500

### Adcom

11 Elkins Rd.  
East Brunswick, NJ 08816  
201-390-1130

### a/d/s

One Progress Way  
Wilmington, MA 01887  
617-729-1140

### Advent

4138 North United Parkway  
Schiller Park, IL 60176  
800-323-1566

### Aiwa

35 Oxford Dr.  
Moonachie, NJ 07074  
201-440-5220

### Akai

225 Old New Brunswick Rd.  
Piscataway, NJ 08854  
201-562-8500

### AKG Acoustics

77 Selleck St.  
Stamford, CT 06902  
203-348-2121

### Alaron

185 Park St.  
P.O. Box 550  
Troy, MI 48099  
313-585-8400

### Allison Acoustics

7 Tech Circle  
Natick, MA 01760  
617-237-2670

### Allsop

4201 N. Meridian  
Bellingham, WA 98225  
206-734-9090

### Alphasonik

701 Heinz Ave.  
Berkeley, CA 94710  
415-548-4013

### Altec Lansing

Milford, PA 18337  
717-296-4434

### Ambria (see Parasound)

### Analog Excellence

12021 Wilshire Blvd., No 131  
W. Los Angeles, CA 90025  
213-453-6303

### Analogic Design Group

Box 6227, 1241 Montlieu Ave.  
High Point, NC 27262  
919-884-7394

### Andante (see Sumiko)

### Angstrom Associates

210 8th St.  
Lewiston, NY 14092  
800-387-8193

### Aphex Systems

13340 Saticoy St.  
North Hollywood, CA 91605  
818-765-2212

### Apogee Acoustics

35 York Industrial Park  
Randolph, MA 02368  
617-963-0124

### Arcam by A&R Corporation

RR #2 Box 478  
Highland Lakes, NJ 07422  
201-764-8958

### Astatic

Conneaut, OH 44030-0120  
216-593-1111

### ATC Loudspeaker Technology

231 Elmwood Dr.  
Rochester, NY 14616  
716-865-9938

### Audio By Van Alstine

2202 River Hills Dr.  
Burnsville, MN 55337  
612-890-3517

### Audio Control

22313 70th Ave. W.  
Mountlake Terrace, WA 98043  
206-775-8461

### Audio Design Associates

610 Mamaroneck Ave.  
White Plains, NY 10605  
914-946-9595

### Audio Dynamics

851 Traeger Ave.  
San Bruno, CA 94066  
415-266-8500

### Audio Festasy

231 Elmwood Dr.  
Rochester, NY 14616  
716-865-9938

### Audio Pro (see Sonic Research)

### Audioquest

P.O. Box 3060  
San Clemente, CA 92672  
714-498-2770

### Audio Research

6801 Shingle Creek Pkwy.  
Minneapolis, MN 55430  
612-566-7570

### AudioSource

1185 Chess Dr.  
Foster City, CA 94404  
415-574-7585

### Audio-Technica

1221 Commerce Dr.  
Stow, OH 44224  
216-686-2600

### Azden

147 New Hyde Park Rd.  
Franklin Square, NY 11010  
516-328-7500

### B&K Components

P.O. Box 331  
Orchard Park, NY 14127  
800-543-5252

### B&W Loudspeakers

P.O. Box 653  
Buffalo, NY 14240  
416-297-0595

### Bang & Olufsen

1150 Feehanville Dr.  
Mount Prospect, IL 60056  
312-299-9380

### BASF

Crosby Dr.  
Bedford, MA 01730-1471  
617-271-4000

### Bedini Amplifiers

13410 Sayre St.  
Sylmar, CA 91342  
818-367-7922

### Belles Research

P.O. Box 307  
A1 Country Club Rd.  
East Rochester, NY 14445  
716-586-7300

### The David Berning Company

11007 Candlelight Lane  
Potomac, MD 20854  
301-299-8970

### Beyer Dynamic

5-05 Burns Ave.  
Hicksville, NY 11801  
516-935-8000

### Bib

10497 Centennial Rd.  
Littleton, CO 80127  
303-972-0410

### Bose

The Mountain  
Framingham, MA 01701  
508-879-7330

### Boston Acoustics

247 Lynnfield St.  
Peabody, MA 01960  
508-532-2111

### Boulder Amplifiers

4850 Sterling Dr.  
Boulder, CO 80301  
303-449-8220

### Bozak (see NEAR)

### Bryston

RFD #24, Box 2255  
Montpelier, VT 05652  
802-233-6159

### BSM (see Laser Audio)

### Buff Stuff

P.O. Box 43128  
Upper Montclair, NJ 07043  
201-509-9355

### Bush Industries

1 Mason Dr., P.O. Box 460  
Jamestown, NY 14702-0460  
800-228-BUSH; in NY 800-248-BUSH

### Calrad Electronics

819 N. Highland Ave.  
Los Angeles, CA 90038-3488  
213-465-2131

### Cambridge Audio

89 Doug Brown Way  
Holliston, MA 01746  
617-429-6706

**Cambridge Soundworks**  
154 California St.  
Newton, MA 02158  
617-332-9461

**Canton**  
915 Washington Ave. S.  
Minneapolis, MN 55415-1245  
612-333-1150

**Carter-Craft Inc.**  
P.O. Box 5185  
Rockford, IL 61125  
815-963-2100

**Carver**  
P.O. Box 1237  
Lynnwood, WA 98046  
206-775-1202

**Celestion Industries**  
89 Doug Brown Way  
Holliston, MA 01746  
617-429-6706

**Cello**  
315 Peck St.  
New Haven, CT 06513  
203-865-1237

**Cerwin-Vega**  
555 E. Easy St.  
Simi Valley, CA 93065  
805-584-9332

**Chapman Sound**  
P.O. Box 18123  
Seattle, WA 98118  
206-526-8647

**Chicago Speaker Stand**  
1495 Greenleaf  
Elk Grove Village, IL 60007  
312-228-0080

**Citizen**  
2999 Overland Ave. #203  
Los Angeles, CA 90064  
213-558-0960  
1-800-421-6516

**Classe Audio**  
9414 Cote De Liesse Rd.  
Lachine, Quebec  
Canada H8T 1A1  
514-636-6384

**Clear Audio**  
P.O. Box 7028  
Westlake Village, CA 91359  
818-889-9828

**Clements Audio**  
9108 Yonge St.  
Richmond Hill, Ontario  
Canada L4C 2Z9  
419-886-5373

**Conrad-Johnson**  
2800R Dorr Ave.  
Fairfax, VA 22031  
703-698-8581

**Convergent Audio Technology**  
24 Falcon Dr.  
West Henrietta, NY 14586  
716-359-2700

**Counterfeet (see Sumiko)**

**Counterparts (see Sumiko)**

**Creek Audio (see Music Hall)**

**Crown International**  
1718 W. Mishawaka Rd.  
Elkhart, IN 46517  
219-294-8000

**Custom Woodwork & Design**  
5200 W. 73 St.  
Bedford Park, IL 60638  
312-563-1745

**Dahlquist**  
601 Old Willets Path  
Hauppauge, NY 11788  
516-234-5757

**Davidson-Roth**  
P.O. Box 95707  
Hoffman Estates, IL 60195  
312-843-1797

**Dayton Wright Group**  
97 Newkirk Rd. N.  
Richmond Hill, Ontario  
Canada L4C 3G4  
416-884-8586

**dB Plus**  
135 Torbay Rd.  
Markham, Ontario  
Canada L3R 1G7  
416-475-0050

**DB Systems**  
Main St.  
Rindge Center, NH 03461  
603-899-5121

**dbx**  
71 Chapel St.  
Newton, MA 02195  
617-964-3210

**DCM Corporation**  
670 Airport Blvd.  
Ann Arbor, MI 48108  
313-994-8481

**Dennesen Electrostatics**  
715 Hale St., Box 51  
Beverly, MA 01915  
617-927-2521

**Denon**  
222 New Rd.  
Parsippany, NJ 07054  
201-575-7810

**Design Acoustics**  
1225 Commerce Dr.  
Stow, OH 44224  
216-686-2600

**Desktop Loudspeaker Systems**  
P.O. Box 3340, Rosedale Station  
Kansas City, KS 66103  
816-561-1878

**D.G. Industries**  
7740 Lemona Ave.  
Van Nuys, CA 91405  
818-787-0311

**DIC Digital**  
2 University Plaza  
Hackensack, NJ 07601  
201-487-4605

**Digitrac (see Ortofon)**

**Discrete Technology**  
3254 Fifth St.  
Oceanside, NY 11572  
516-764-1121

**Discwasher**  
4310 Transworld Rd.  
Schiller Park, IL 60176  
312-678-9600

**DNM (see Music Hall)**

**Dual (see Ortofon)**

**Electrocompaniet (see Music & Sound Imports)**

**Emerson**  
One Emerson Lane  
N. Bergen, NJ 07047  
201-854-6600

**Eminent Technology**  
225 E. Palmer St.  
Tallahassee, FL 32301  
904-575-5655

**Energy**  
135 Torbay Rd.  
Markham, Ontario  
Canada L3R 1G7  
416-475-0050

**EPI (Epicure Products)**  
25 Hale St.  
Newburyport, MA 01950  
617-462-1000

**Epoch (see Stanton)**

**Epos (see Music Hall)**

**ESM (see Energy)**

**ESS Laboratory**  
2575 El Presidio St.  
Long Beach, CA 90810  
213-537-2037

**Euphonic Audio**  
R.R. #1, Box 266  
New Egypt, NJ 08533  
201-929-2613

**Fineline Distributing**  
P.O. Box 90  
Londonderry, NH 03053-0090  
603-432-6716

**Fisher**  
21350 Lassen St.  
Chatsworth, CA 91311-2329  
818-998-7322

**Focus Speaker Systems**  
1101 East Second St.  
Dayton, OH 45403  
513-222-3946

**Forte**  
1955 Industrial Dr.  
Auburn, CA 95603  
916-888-0609

**Fosgate/Audionics**  
P.O. Box 70  
Heber City, UT 84032  
801-654-4046

**Fostex**  
15431 Blackburn Ave.  
Norwalk, CA 90650  
213-921-1112

**Fried Products**  
7616 City Line Ave.  
Philadelphia, PA 19151  
215-473-7474

**Fuji**  
555 Taxter Rd.  
Elmsford, NY 10523  
914-789-8100

**Funai**  
100 North St.  
Teterboro, NJ 07608  
201-288-2606

**GE Consumer Electronics**  
600 N. Sherman Dr.  
Indianapolis, IN 46206  
317-267-5000

**Geneva Group**  
9909 South Shore Dr.  
Plymouth, MN 55441  
612-546-5620

**Gold Sound**  
P.O. Box 141  
Englewood, CO 80110  
303-761-6483

**GoldStar**  
1050 Wall St. West  
Lyndhurst, NJ 07071  
201-460-8870

**Grace (see Sumiko)**

**Grado**  
921 Tice Place  
Westfield, NJ 07090  
201-233-5893

**Gusdorf**  
11440 Lackland Rd.  
St. Louis, MO 63146  
314-567-5249

**Reuben Guss Enterprises**  
61 West 62nd St.  
New York, NY 10023  
212-582-7781

**David Hafler**  
5910 Crescent Blvd.  
Pennsauken, NJ 08109  
609-662-6355

**Harman Kardon**  
240 Crossways Park West  
Woodbury, NY 11797  
516-496-3400



**WDS**  
 Wisconsin Discount Stereo  
 2417 W. Badger Road  
 Madison, WI 53713

**HOURS**  
 Mon-Thur 8-8  
 Fri-Sat 9-8  
 Sun 9-5

Why Take A Risk? Buy from the Oldest Electronics Mail Order in the Country. 800 # Pricing, 800 # Warranty Service, 800 # Order Follow-up. Buyer Protection Plan included—FREE—with Every Purchase. Some items limited quantities. Most items shipped within 48 hours. All items factory fresh with full warranty. No extra charge for credit cards. Your satisfaction means everything to us. Compare delivered prices—WDS #1. Why Take A Risk? Close to 25 years of experience. The Oldest Electronics Mail Order in the Country. 800 # Pricing, 800 # Warranty Service, 800 # Order Follow-up. Buyer Protection Plan included—FREE—with Every Purchase. Some items limited quantities. Most items shipped within 48 hours. All items factory fresh with full warranty. No extra charge for credit cards. Your satisfaction means everything to us. Compare delivered prices—WDS #1. \* Call Us for Any Or Your Audio/Video Car Stereo Needs \* Why Take A Risk?

**WDS**  
 Wisconsin Discount Stereo  
 2417 W. Badger Road  
 Madison, WI 53713

**HOURS**  
 Mon-Thur 8-8  
 Fri-Sat 9-8  
 Sun 9-5

**WDS**  
 Wisconsin Discount Stereo  
 2417 W. Badger Road  
 Madison, WI 53713

**SPEAKER SPECIALS**

- |  |                 |   |                 |                                       |                  |  |                  |
|--|-----------------|---|-----------------|---------------------------------------|------------------|--|------------------|
| <b>MARANTZ 3-WAY TOWER</b><br>130 WATT RMS/39 LQUID COOLED TWEETER | <b>\$89 EA.</b> | <b>EPI 3-WAY</b><br>12 INCH WOODER CDH TWEETER & MIDRANGE | <b>\$99 EA.</b> | <b>EPI T/E 28011</b><br>TOWER SPEAKER | <b>\$109 EA.</b> | <b>EPI T/E 32011</b><br>3-WAY 950 WATT TOWER SPEAKER | <b>\$149 EA.</b> |
|--|-----------------|---|-----------------|---------------------------------------|------------------|--|------------------|

**MISCELLANEOUS SPECIALS**

- |  |   |  |  |
|--|---|--|--|
| <b>JVC RX550</b><br>LOWEST PRICE                             | <b>TEAC V670</b><br>LOWEST PRICE              | <b>TECHNICS SLD033 WITH SHURE V15</b><br>\$189             | <b>TECHNICS SU350</b><br>LOWEST PRICE        |
| 60 Watt A/V receiver with remote. 7-band EQ. 3 video inputs. | 3-Head 9 motor cassette with Dolby B/C. HX900 | Full line of Stanton, Shure and Ordon cartridges available | 18 bit 24 oversampling and 2 D/A converters. |

**MISCELLANEOUS SPECIALS**

- |   |  |  |                               |
|---|--|--|-------------------------------|
| <b>ADC S5525</b><br>\$369                                       | <b>JVC RX950</b><br>LOWEST PRICE                     | <b>CASIO MT380</b><br>LOWEST PRICE                 | <b>SONY MDRV6</b><br>\$67     |
| Automatic computerized equalizer with spectrum analyzer and MIC | 120 Watt A/V receiver with 11-band EQ and ICD remote | Full line of Yamaha and Casio headphones available | PROFESSIONAL MODEL HEADPHONES |

**MISCELLANEOUS SPECIALS**

- |                             |                                      |   |  |
|-----------------------------|--------------------------------------|---|--|
| <b>SONY KV8100</b><br>\$289 | <b>SONY KV27SR10</b><br>LOWEST PRICE | <b>5" COLOR TV/VHS PLAYER</b><br>\$379    | <b>JVC HRD750</b><br>LOWEST PRICE                            |
| AC/DC TV SPECIAL PURCHASE   | BEST 97" TELEVISION ON THE MARKET    | HANDLE CONVERTS TO STAND SPECIAL PURCHASE | Brand new M15 3-head HiFi with crystal clear special effects |

**CAMCORDER SPECIALS**

- |                                  |                                      |                                  |                             |
|----------------------------------|--------------------------------------|----------------------------------|-----------------------------|
| <b>JVC GRG25</b><br>LOWEST PRICE | <b>RCA CC300</b><br>\$1029           | <b>JVC GR555</b><br>LOWEST PRICE | <b>GE GC 9825</b><br>CALL!  |
| HIGH SPEED SHUTTER TOP RATED     | 8.1 ZOOM VARIABLE HIGH SPEED SHUTTER | SUPER VHS TOP RATED              | 8.1 ZOOM FLYING EAGLE HEADS |

**CAMCORDER SPECIALS**

- |  |                                 |
|--|---------------------------------|
| <b>HITACHI 7-LUX</b><br>\$899              | <b>PANASONIC PV400</b><br>CALL! |
| 4-HEAD 525 SCANNING LINES SPECIAL PURCHASE | SPECIAL PURCHASE                |

**SOME EXAMPLES OF OUR SPECIAL PRICING**

**PORTABLE DISC PLAYER SPECIALS**

- |   |   |                                    |                                    |
|---|---|------------------------------------|------------------------------------|
| <b>SONY D-4</b><br>\$179                      | <b>TOSHIBA XRP9</b><br>\$159                      | <b>SONY D-160</b><br>LOWEST PRICE  | <b>SONY D-15</b><br>LOWEST PRICE   |
| PROGRAMMABLE OPTIONAL REMOTE SPECIAL PURCHASE | WIRELESS REMOTE Also includes battery pack & case | Car discman includes CPA1 + CPA100 | SMALLEST DISC MAN SPECIAL PURCHASE |

**DISC PLAYER SPECIALS**

- |  |   |  |  |
|--|---|--|--|
| <b>JVC XLV550</b><br>\$219                     | <b>TEAC PD600</b><br>LOWEST PRICE                         | <b>TEAC AD4</b><br>\$279   | <b>10-DISC STACKER</b><br>\$389          |
| Direct access from remote and 35 track program | 6 disc stacker with 39 program memory and wireless remote | Combination CD/cassette with Dolby B/C auto-reverse and random programming | SPECIAL PURCHASE Loaded with performance |

**CAR STEREO SPECIALS**

- |   |  |  |  |
|---|--|--|--|
| <b>SHERWOOD CRD210</b><br>\$159                       | <b>CLARION 9800T</b><br>LOWEST PRICE                   | <b>SHERWOOD CR0350</b><br>\$182                      | <b>CLARION 8883RT</b><br>LOWEST PRICE                        |
| Auto reverse with CD inputs. Dolby B/C and high power | Digital DIN with Dolby B/C high power and auto reverse | Digital DIN with CD inputs. Dolby B/C and high power | Removeable DIN chassis with 18 presets. Dolby and high power |

**VIDEO RECORDER SPECIALS**

- |   |   |   |  |
|---|---|---|--|
| <b>TOP RATED 4-HEAD VHS</b><br>\$289          | <b>4-HEAD MTS HiFi</b><br>\$389               | <b>GE 4-HEAD MTS HiFi</b><br>\$419            | <b>JVC HRD630</b><br>LOWEST PRICE                        |
| On screen programming with 97-function remote | On screen programming with 97-function remote | GE PRO FECT four head with remote programming | Digital 4-head MTS HiFi with multi screen social effects |

**SUPER VHS VCR SPECIALS**

- |  |                                     |                                  |   |
|--|-------------------------------------|----------------------------------|---|
| <b>RCA VR640</b><br>\$689              | <b>JVC HRS5000</b><br>LOWEST PRICE  | <b>HITACHI VT5700</b><br>CALL!   | <b>JVC HRS8000</b><br>LOWEST PRICE              |
| 4-Head MTS HiFi with on screen display | Brand new Super VHS 4-Head MTS HiFi | SPECIAL PURCHASE TOP OF THE LINE | Digital 4-head MTS HiFi with picture in picture |

**MORE VCR SPECIALS**

- |   |                                  |
|---|----------------------------------|
| <b>GE VG7795</b><br>LOWEST PRICE                  | <b>PANASONIC PV4800</b><br>CALL! |
| Super VHS 4-Head MTS HiFi with 49 function remote | SPECIAL PURCHASE 4-HEAD MTS HiFi |

**Discount Hotline**  
 BUYER'S GUIDES AVAILABLE STEREO \$3.95 — VIDEO \$3.95 — BOTH FOR \$7.00

**1-800-356-9514**  
 Or call 608-271-6889

\* GUARANTEED LOWEST PRICE—Compared to any other factory authorized dealer delivered to your door with full warranty.

RETURN POLICY: Return accepted within 30 days and must be provided in its original factory sealed condition. Refund includes: shipping fee, handling fee, and handling non-refundable.

**Hartley Products**  
1200 N. 23rd St., Suite 105  
Wilmington, NC 28405  
919-763-7422

**Heco**  
701 Heinz Ave.  
Berkeley, CA 94710  
415-548-4013

**Heybrook by D'Ascanio Audio**  
11450 Overseas Highway  
Marathon, FL 33050  
305-743-7130

**Highphonic (see Analog  
Excellence)**

**Hitachi**  
401 West Artesia Blvd.  
Compton, CA 90220  
213-537-8383

**Hunt (see Music Hall)**

**Image**  
135 Torbay Rd.  
Markham, Ontario  
Canada L3R 1G7  
416-475-0050

**Infinity**  
9409 Owensmouth  
Chatsworth, CA 91311  
818-709-9400

**Innovative Concepts**  
1705 Junction Court, Suite 160  
San Jose, CA 95112-1023  
408-436-1777

**International Components**  
105 Maxess Rd.  
Melville, NY 11747  
516-293-1500

**Intraclean by A.R.T.**  
4505-2H Industrial St. Box 3592  
Simi Valley, CA 93063  
805-527-9580

**Irish Magnetic Tape**  
270-78 Newtown Rd.  
Plainview, NY 11803  
516-293-5582

**Jadis (see Madrigal)**

**Jamo**  
425 Huchl Rd., Bldg 3A  
Northbrook, IL 60062  
312-498-4648

**JBL**  
240 Crossways Park West  
Woodbury, NY 11797  
516-496-3400

**Jecklin (see Astatic)**

**Jensen**  
4136 N. United Parkway  
Schiller Park, IL 60176  
312-671-5680

**JPW Loudspeakers**  
4632 Cross Roads Park Dr.  
Liverpool, NY 13088  
315-451-5721

**JRM**  
3716 Broadway NE  
Knoxville, TN 37917-3120  
615-688-6501

**J.S. Engineering**  
519 E. Middle Turnpike  
Manchester, CT 06040  
203-643-2160

**JVC**  
41 Slater Dr.  
Elmwood Park, NJ 07407  
201-794-3900

**KEF**  
14120-K Sullyfield Circle  
Chantilly, VA 22021  
703-631-8810

**Kenwood**  
2201 E. Dominguez St.  
Long Beach, CA 90810  
213-518-1700

**Kindel Audio**  
3615 Presley Ave.  
Riverside, CA 92507  
714-787-0662

**Kinergetics**  
6029 Reseda Blvd.  
Tarzana, CA 91356  
818-345-2851

**Kinetic Audio**  
P.O. Box 31075  
Chicago, IL 60631  
312-625-9322

**Kirksaeter**  
4648 Evansdale Rd.  
Woodbridge, VA 22193  
703-680-5548

**Kiseki (see Sumiko)**

**Klipsch**  
P.O. Box 688  
Hope, AR 71801  
501-777-6751

**Klyne Audio Arts**  
828 7th Ave. SE  
Olympia, WA 98501  
206-943-5420

**Koss**  
4129 N. Port Washington Ave.  
Milwaukee, WI 53212  
414-964-5000

**Kyocera**  
100 Randolph Rd., CN 6700  
Somerset, NJ 08873-1284  
201-560-0060

**Laser (see Swire Magnetics)**

**Laser Audio**  
1140 8th Line  
Iroquois Industrial Ctr.  
Oakville, Ontario  
Canada L6H 2R4  
416-842-2850

**Lazarus Electronics**  
4480 Shopping Lane

Simi Valley, CA 93063  
805-581-0885

**Lazer-Tech Speakers**  
P.O. Box 28342  
Spokane, WA 99228-8342  
509-467-9369

**Lenoxx**  
140 43rd St.  
Brooklyn, NY 11232  
718-499-4005

**Leslie Dame Enterprises**  
111-20 73rd Ave.  
Forest Hills, NY 11375  
718-261-4919

**Lineage**  
1556 3rd Ave.  
New York, NY 10128  
212-722-0123

**Linn Products**  
8709 Castle Park Dr.  
Indianapolis, IN 46256  
317-849-5880

**Logan Labs (see Symdex)**

**LT Sound**  
7980 LT Parkway  
Lithonia, GA 30058  
404-482-4836

**Luxman**  
19145 Gramercy Pl.  
Torrance, CA 90501  
213-326-8000

**Madrigal**  
2081 S. Main St., Box 781  
Middletown, CT 06457  
203-346-0896

**Magnat (see Magnasphere)**

**Magnasphere**  
70 Atlantic Ave.  
Marblehead, MA 01945-3038  
617-639-1400

**Magnavox**  
I-40 and Straw Plains Pike  
P.O. Box 6950  
Knoxville, TN 37914  
615-521-4316

**Magnepan**  
1645 9th St.  
White Bear Lake, MN 55110  
612-426-1645

**M&K (Miller & Kreisel)**  
10391 Jefferson Blvd.  
Culver City, CA 90230  
213-204-2854

**Marantz**  
20525 Nordhoff St.  
Chatsworth, CA 91313  
818-998-9333

**Mark Levinson (see Madrigal)**

**John Marovskis Audio**  
2889 Roebbling Ave.  
Bronx, NY 10461  
212-892-7419

**Martin-Logan**  
P.O. Box 741  
2001 Delaware St.  
Lawrence, KS 66044  
913-749-0133

**Maxell**  
60 Oxford Dr.  
Moonachie, NJ 07074  
201-794-5900

**M.B. Quart Electronics**  
25 Walpole Park South  
Walpole, MA 02081  
617-668-8973

**McIntosh**  
2 Chambers St.  
Binghamton, NY 13903-2699  
607-723-3512

**Melos Audio**  
723 Bound Brook Rd.  
Dunellen, NJ 08812  
201-968-8771

**Memorex by Memtek**  
P.O. Box 90121  
Ft. Worth, TX 76101  
817-878-6700

**Meridian (see Madrigal)**

**Mirage Acoustics**  
135 Torbay Rd.  
Markham, Ontario  
Canada, L3R 1G7  
416-475-0050

**Mission Electronics**  
5985 Atlantic Dr., Unit 6  
Mississauga, Ontario L4W 1S4  
416-673-3777

**Mitsubishi**  
5757 Plaza Dr.  
Cypress, CA 90630  
714-220-2500

**M. M. Newman**  
148 Linden St., Suite 105  
Wellesley, MA 02181  
617-237-5860

**The Mod Squad**  
542 Coast Highway 101  
Leucadia, CA 92024-0965  
619-436-7666

**Mogami**  
P.O. Box 2027  
Culver City, CA 90230  
213-390-6608

**Monitor Audio by Kevro  
Electronics**  
P.O. Box 1355  
Buffalo, NY 14205  
416-831-4741

**Monster Cable**  
101 Townsend St.  
San Francisco, CA 94107  
415-777-1355

**Morel Acoustics**  
414 Harvard St.  
Brookline, MA 02146  
617-277-6663



**Motif (see Conrad-Johnson)**

**MTX Loudspeaker Systems**  
(Mitek Group)  
One Mitek Plaza  
Winslow, IL 61809  
815-367-3000

**Music & Sound Imports**  
30 Snowflake Rd.  
Huntingdon Valley, PA 19006  
215-357-7858

**Music Hall**  
108 Station Rd.  
Great Neck, NY 11023  
516-487-3663

**NAD**  
575 University Ave.  
Norwood, MA 02062  
617-762-0202

**Nady Systems**  
1145 65th St.  
Oakland, CA 94608  
415-652-2411

**Nagaoka**  
210 8th St.  
Lewiston, NY 14092

**Nakamichi**  
19701 S. Vermont Ave.  
Torrance, CA 90502  
213-538-8150

**Namiki (see Analog Excellence)**

**NEAR**  
5 East St.  
New Britain, CT 06051  
203-225-7816

**NEC Home Electronics**  
1255 Michael Dr.  
Wood Dale, IL 60191-1094  
312-860-9500

**Nikko Audio**  
5830 S. Triangle Dr.  
Commerce, CA 90040  
213-721-4373

**Niles Audio**  
12331 S.W. 130th St.  
Miami, FL 33186  
305-238-4373

**Nitty Gritty**  
4650 Arrow Hwy., #F4  
Montclair, CA 91763  
714-625-5525

**Nova Electro-Acoustics**  
P.O. Box 25488  
Los Angeles, CA 90025  
213-477-7491

**Novak Loudspeaker**  
Merrits Island Rd.  
Pine Island, NY 10969  
914-258-4363

**Numark**  
503 Newfield Ave., Raritan Center  
Edison, NJ 08837  
201-255-3222

**Onix (see Music Hall)**

**Onkyo**  
200 Williams Dr.  
Ramsey, NJ 07446  
201-825-7950

**Oracle Audio**  
505 Industrial Blvd.  
Sherbrooke, Quebec, Canada  
J1L 1X7  
819-566-5566

**Ortofon**  
122 Dupont St.  
Plainview, NY 11803  
516-349-9180

**O'Sullivan Industries**  
1900 Gulf St.  
Lamar, MO 64759  
417-682-3322

**OWI**  
14016 Bora Bora Way, 128-G  
Marina Del Rey, CA 90292  
213-822-9083

**Panasonic**  
One Panasonic Way  
Secaucus, NJ 07094  
201-348-7000

**Parasound Products**  
950 Battery St.  
San Francisco, CA 94111  
415-397-7100

**Parsec**  
400 W. 9th St.  
Wilmington, DE 19801  
302-651-9189

**Perreaux**  
135 Torbay Rd.  
Markham, Ontario  
Canada L3R 1G7  
416-475-0050

**Phase Technology**  
6400 Youngerman Circle  
Jacksonville, FL 32244  
904-777-0700

**Phileo**  
P.O. Box 14810  
Knoxville, TN 37914  
615-521-4316

**Philips**  
P.O. Box 14810  
Knoxville, TN 37914  
615-521-4316

**Pickering**  
Sunnyside Blvd.  
Plainview, NY 11803  
516-349-0200

**Pinnacle Audio**  
517 Route 111  
Hauppauge, NY 11788  
516-360-9410

**Pioneer Electronics**  
P.O. Box 1540  
Long Beach, CA 90801  
213-835-6177

**Plateau**

P.O. Box 347  
Montgomery Center, VT 05471-  
0347  
315-474-7588

**Polk Audio**  
5601 Metro Dr.  
Baltimore, MD 21215  
301-358-3600

**Precise Acoustics**  
200 Williams Dr., Suite B  
Ramsey, NJ 07446  
201-934-1335

**Premier (see Sumiko)**

**Proton**  
737 W. Artesia Blvd.  
Compton, CA 90220  
213-638-5151

**PS Audio**  
4145 Santa Fe Rd.  
San Luis Obispo, CA 93401  
805-543-6655

**PSB Speakers**  
575 University Ave.  
Norwood, MA 02062  
617-762-7453

**Quad**  
14120-K Sullyfield Circle  
Chantilly, VA 22021  
703-631-8618

**Quasar**  
1325 Pratt Blvd.  
Elk Grove Village, IL 60007  
312-228-6366

**Quicksilver Audio**  
3707 N. Merrimac Circle  
Stockton, CA 95209  
209-462-7711

**RCA**  
600 N. Sherman Dr.  
P.O. Box 1976  
Indianapolis, IN 46201  
317-267-5000

**Realistic**  
1700 One Tandy Center  
Fort Worth, TX 76102  
817-390-3300

**Recoton**  
46-23 Crane St.  
Long Island City, NY 11101  
718-392-6442

**Reel to Real Designs**  
2105 Claremont  
Springfield, IL 62703  
217-529-8793

**Revolver (see Music Hall)**

**Revox**  
1425 Elm Hill Pike  
Nashville, TN 37210  
615-254-5651

**Rhapsody (see Alaron)****RH Labs**

6844 S.W. 60th Ave.  
Portland, OR 97219  
503-245-8666

**Rich Acoustic Labs**  
3 Cleveland St.  
Headland, AL 36345  
205-693-5082

**Rockustics**  
41 E. Main St.  
Bay Shore, NY 11706  
516-665-6497

**Ross Marks**  
8 W. Division St.  
Chicago, IL 60610  
312-776-8273

**Rotel**  
P.O. Box 653  
Buffalo, NY 14240  
416-297-0595

**Jeff Rowland Design Group**  
20-C Mountview Lane  
Colorado Springs, CO 80907  
303-528-8388

**Russound/FMP**  
135 McDonough St.  
Portsmouth, NH 03801  
603-431-5282

**SAE**  
1502 Gage Rd.  
Montebello, CA 90640  
213-726-9999

**SAEC (see Analog Excellence)**

**Samsung**  
301 Mayhill St.  
Saddle Brook, NJ 07662  
201-587-9600

**Sansui**  
1250 Valley Brook Ave.  
Lyndhurst, NJ 07071  
201-460-9710

**Sanyo**  
1200 W. Artesia Blvd.  
Compton, CA 90220  
213-537-5830

**Scott**  
5601 Westside Ave.  
North Bergen, NJ 07047  
201-662-2000

**Seattle Sound**  
P.O. Box 30028  
Seattle, WA 98103  
206-624-4038

**Sennheiser**  
6 Vista Dr., Box 987  
Old Lyme, CT 06371  
203-434-9190

**Sentry Industries**  
252C Lake Ave.  
Yonkers, NY 10701  
914-968-0180

**Shahinian Acoustics**  
33 A&B Cedarhurst Ave.  
Medford, NY 11763  
516-736-0033

**Sharp**  
Sharp Plaza  
Mahwah, NJ 07430  
201-529-8200

**Sherwood**  
13845 Artesia Blvd.  
Cerritos, CA 90701  
213-926-6337

**Shure**  
222 Hartrey Ave.  
Evanston, IL 60202-3696  
312-866-2200

**Signet**  
4701 Hudson Dr.  
Stow, OH 44224  
216-688-9400

**SME (see Sumiko)**

**Snell Acoustics**  
143 Essex St.  
Haverhill, MA 01830  
617-373-6114

**Sonance**  
32992 Calle Perfecto  
San Juan Capistrano, CA 92675  
714-661-7558

**Sonex by Illbruck**  
3800 Washington Ave. N.  
Minneapolis, MN 55412-2197  
612-521-3555

**Sonic Research**  
180 Sunny Valley Rd.  
New Milford, CN 06776  
203-354-9332

**Sonographe (see Conrad-Johnson)**

**Sonrise**  
13622 N.E. 20th, Suite F  
Bellevue, WA 98005  
800-231-8663; 206-641-1900

**Sonus (see Sonic Research)**

**Sony**  
Sony Dr.  
Park Ridge, NJ 07656  
201-765-3535

**Sota Industries**  
P.O. Box 7075  
Berkeley, CA 94707  
415-527-1649

**Sound Concepts**  
27 Newell Rd.  
Brookline, MA 02146  
617-566-0110

**Soundcraftsmen**  
2200 S. Ritchey St.  
Santa Ana, CA 92705  
714-556-6191

**Soundesign**  
Harborside Financial Center  
Plaza Two

34 Exchange Place  
Jersey City, NJ 07302  
201-434-1050

**Sound Dynamics**  
135 Torbay Rd.  
Markham, Ontario, Canada L3R  
1G7  
416-475-0050

**Sound Runner**  
P.O. Box 2027  
Culver City, CA 90230  
213-390-6608

**Speakerlab**  
735 N. Northlake Way  
Seattle, WA 98103  
206-633-5020

**Specialty Woodworks**  
7211 Pottsburg Dr.  
Jacksonville, FL 32216  
904-725-6951

**Spectrascan**  
1110A Elkton Dr.  
Colorado Springs, CO 80907  
303-599-9254

**Spectrum Loudspeakers**  
1021 Nevada St.  
Toledo, OH 43605  
419-698-4488

**Spica**  
1601 Paseo de Peralta  
Santa Fe, NM 87501  
505-982-1894

**SPI.**  
135 Torbay Rd.  
Markham, Ontario  
Canada, L3R 1G7  
416-475-0050

**Ssangyong**  
601 16th St.  
Carlstadt, NJ 07072  
201-939-4300

**Stanton**  
Terminal Dr.  
Plainview, NY 11803  
516-349-0235

**Stax**  
940 E. Dominguez St.  
Carson, CA 90746  
213-538-5878

**Straight Wire**  
1909 Harrison St., Suite 208  
Hollywood, FL 33020  
305-925-2470

**Sumiko**  
P.O. Box 5046  
Berkeley, CA 94705  
415-843-4500

**Sumo**  
21300 Superior St.  
Chatsworth, CA 91311  
818-407-2426

**Superphon**  
1035 Conger #3

Eugene, OR 97402  
503-345-4226

**Supex (see Sumiko)**

**Surround Sound**  
400 South Date Ave.  
Alhambra, CA 91803  
818-282-9419

**Swire Magnetics**  
301 E. Alondra Blvd.  
Gardena, CA 90248  
(213) 515-0494

**Sylvania**  
P.O. Box 14810  
Knoxville, TN 37914  
615-521-4316

**Symdex**  
Box 359  
Gloucester, MA 01930  
508-281-4447

**Symphonic (see Funai)**

**Synthesis (see Conrad-Johnson)**

**Talisman (see Sumiko)**

**Talwar**  
311 West Point Terrace  
West Hartford, CT 06107  
203-521-2263

**Tandberg**  
122 Dupont St.  
Plainview, NY 11803  
516-349-9206

**Tannoy**  
300 Gage Ave. Unit 1  
Kitchener, Ontario N2M 2C8  
519-745-1158

**TDK**  
12 Harbor Park Dr.  
Port Washington, NY 11050  
516-625-0100

**TDL**  
652 Glenbrook Rd.  
Stamford, CT 06906  
203-324-7269

**Teac**  
7733 Telegraph Rd.  
Montebello, CA 90640  
213-726-0303

**Technics**  
One Panasonic Way  
Secaucus, NJ 07094  
201-348-7000

**Thiel**  
1042 Nandino Blvd.  
Lexington, KY 40511  
606-254-9427

**Thorens (see EPI)**

**Threshold**  
1945 Industrial Dr.  
Auburn, CA 95603  
916-888-0600

**Toshiba**  
82 Totowa Rd.  
Wayne, NJ 07470  
201-628-8000

**Trackmate**  
8 W. Division St.  
Chicago, IL 60610  
312-776-8273

**Triad**  
240 Crossways Park West  
Woodbury, NY 11797  
516-496-3400

**Tweek (see Sumiko)**

**Uher**  
7067 Vineland Ave.  
N. Hollywood, CA 91605  
818-764-1120

**Ultralinear (see ESS)**

**Vandersteen Audio**  
116 W. 4th St.  
Hanford, CA 93230  
209-582-0324

**Vector Research**  
1230 Calle Suerte  
Camarillo, CA 93010  
805-987-1312

**Velodyne Acoustics**  
1746 Junction Ave.  
San Jose, CA 95112  
408-436-0688  
800-835-6396

**Visa by Interworld Electronics**  
9920 N.W. 12th St.  
Miami, FL 33172  
305-592-9506

**Vogel's by TEI Electronics**  
570 West 18th St.  
Hialeah, FL 33010  
305-888-3980; 800-327-8811

**Wharfedale**  
P.O. Box 2146  
Peekskill, NY 10566-2146  
914-739-6267

**Wingate Audio**  
20 Sunnyside Ave., Suite A-194  
Mill Valley, CA 94941  
415-381-5018

**Wolcott Audio**  
2250 N. Bigelow Ave.  
Simi Valley, CA 93065  
805-527-8842

**Wright Audio**  
13995 S.W. Butner Rd. #1  
Beaverton, OR 97006  
503-644-7303

**Yale Audio**  
2702 Azelee St.  
Tampa, FL 33609  
813-876-6789

**Yamaha**  
6660 Orangethorpe Ave.  
Buena Park, CA 90620  
714-522-9105



# BUYERS' GUIDE CLASSIFIED

FOR SALE

**Stereo Express**  **CALL NOW**   
(619) 578-9630

**CALL FOR PRICE  
FAST & FRIENDLY SERVICE**  
Most Orders Shipped Within 48 Hours  
**HOME AUDIO**  
YAMAHA, ADS, BOSE, HAFLER, HARMAN KARDON,  
INFINITY, AR, SONY, DBX, JBL, JVC, AIWA,  
TECHNICS, AKAI, SAE, ADCOM,  
STAX, AUDIO SOURCE,  
PIONEER, MAGNAVOX, AND MANY MORE.

**CAR AUDIO**  
ADS, ALPINE, BLAUPUNKT, CONCORD, SONY,  
KENWOOD, PIONEER, CLIFFORD, TECHNICS

**VIDEO**  
SONY, JVC, RCA, PANASONIC, ZENITH, GE  
7887 Dunbrook #G, San Diego, CA 92126

**CALL US  
LAST**

WE WILL  
**BEAT ANY PRICE**  
PRINTED IN THIS MAGAZINE ON  
**AUDIO & CAR STEREO**

**The SOUND Approach**  
6067 Jericho Tpke., Commack, NY 11725  
**FAST DELIVERY (516) 499-7680**  
FULL WARRANTY

LOUDSPEAKER COMPONENTS-KITS. Dynaudio, Morel, Eclipse, Focal, Peerless, Eton, Vifa, more! Crossover parts—design books also. Catalog \$1. MEMISCUS, 3275 Gladiola, Wyoming, MI 49509. (616) 534-9121.

**SERIOUS  
AUDIOPHILES  
DESERVE  
SERIOUS  
SERVICE.**

And that's what you'll get at Reference Audio Systems. We offer the best in high-end audio and the best in friendly service by our knowledgeable staff. From the latest CD player to a classic mega-watt amplifier, you'll like our surprisingly affordable prices and fast shipping.

MAGNAVOX • DBX  
THORENS • NITTY  
CELESTION • RAUN  
STAX • AUDIOPRO  
SONANCE • ENER  
GRADO • MAGNUM  
DUAL • ORTOFON

**Reference  
Audio Systems**

Call Us... (213) 719-1500

Member Better Business Bureau  
18214 Dalton Ave, Dept. D, Gardena, CA 90248  
Hours: M-F 9 to 6, Sat. 9 to 1 Pacific Time

**IN CANADA**

**NATIONAL  
ELECTRONIC  
WAREHOUSE**

CANADA'S MAIL-ORDER SPECIALISTS  
AUDIO • VIDEO  
MICROWAVES • COMPUTERS  
ANY STYLUS AVAILABLE

 1-800-387-0376   
1-416-538-4000

896 Queen St. W., Toronto, Ontario M6J 1G6

**SAE • ACOUSTIC RESEARCH**

**PHILIPS • THORENS • ZENITH**  
**KENWOOD • AKAI • TOSHIBA**

**GET LOW PRICES ON ALL**  
types of audio equipment — including high-end and esoteric products not normally discounted. Now we can **SAVE YOU MONEY** on the equipment you really want. Extensive selection — no need to settle for second choice. Thousands of satisfied customers world-wide. All products feature USA manufacturer's warranty. Call us for price quotes or friendly, expert advice. Catalog \$1.00. **616-451-3868**. Audio Advisor, 225 Oakes, S.W., Grand Rapids, MI 49503. We accept: **VISA/MC/AMEX/DISCOVER**.

**LOWEST PRICES  
On over 150 brands  
Car - Home - Video**  
For Specials List and Catalog only  
**800-233-8375**

HIGH QUALITY BRANDS—Car, Home, Video Including esoteric. Audio Unlimited, 1203D Adams Ave., La Grande, Oregon 97850. (503) 963-5731.

**The Sound Seller**

For the Musical Difference

Authorized Dealer For:

Acoustat	NAD (In store only)
Audio Control	Belles
Nitty Gritty	CWD
M&K	dbx
Nakamichi	Fred
Oracle	Harman Kardon
Polk	3D
PROAC	Ornkyo
Proton	Grado
STAX	Audioquest
Thorens	Celestion
Dahlquist	DCM
Hafler	Niles
Monster Cable	Kinergetics
Citation	Duntech

1706 Main St.  
Manitowish, WI 54143  
(715) 735-9002

HIGH-END LOUDSPEAKER systems, speaker kits and the widest selection of raw drivers from the world's finest manufacturers. For beginners and audiophiles. Free catalog. A&S SPEAKERS, 3170 23rd St., San Francisco, CA 94110. (415) 641-4573

High-end and hard-to-find audio components. Low, low prices! AUDIO AMERICA (Virginia). Call 1-703-745-2223.

**GRADO**  **audio-technica** 

**YOUR SEARCH IS OVER!**



We specialize in hard to find phono cartridges and original replacement styli.

**(800) 221-0906**

CALL TOLL-FREE FOR FREE PRICE QUOTES AND VISA/MC ORDERS N.Y. STATE (516) 599-1112

SEND SELF ADDRESSED STAMPED ENVELOPE FOR OUR FREE CATALOG.

**LYLE CARTRIDGES**  
Dept. SBG, Box 158  
Valley Stream, N.Y. 11582

Phones Open Mon-Sat 9 am-8 pm

**ORTOFON SHURE STANTON**

**TIPTOES LAST MONSTER CABLE** **DYNVECTOR Bang & Olufsen PICKERING**

**THE FINEST IN HOME AUDIO,  
CAR STEREO & VIDEO EQUIPMENT**

**AUTHORIZED DEALER FOR**

• ADS	• MISSION
• AKG	• MONSTER CABLE
• ALTEC-LANSING	• ORION
• AUDIO CONTROL	• OLYMPUS
• AUDIO PRO	• POLK AUDIO (CAR)
• AUDIO SOURCE	• PROTON
• B & W	• SAE
• dbx	• SANSUI
• DENON	• SURROUND SOUND
• GUL	• SNOOPER
• INFINITY (CAR)	• SONANCE
• JVC	• SOUND
• KENWOOD	• CRAFTSMEN
• KICKER	• TERK ANTENNAS
• M NOLTA	• CELESTION
	• GERWIN VEGA

**Sound CITY** 

Meadtown Shopping Center  
Route 23 South  
Kinnelon, N.J. (201) **838-3444**

**AUDIOPHILES:**  
**NO RISK AUDITIONINGS!**  
**MODIFICATIONS TO B&K COMPONENTS**

- ON PREMISES ENGINEERING
- SEPARATE LISTENING ROOMS
- STATE OF THE ART EQUIPMENT

SHIPPING PREPAID. CREDIT CARDS ACCEPTED  
 CALL FOR MORE INFORMATION

**SOUND UNLIMITED** Est. 1959  
 166 Church St. Bristol, CT 06010 (203) 584-0131

**CABLE TV CONVERTERS/DESCRAMBLERS**

Guaranteed lowest prices in U.S. Jerrold, Hamlin, Zenith—many others! Lowest dealer prices! Orders shipped within 24 hours! MasterCard-Visa-C.O.D. accepted. FREE CATALOG! Call (800) 345-8927 only! PACIFIC CABLE CO., INC., 7325 1/2 Reseda Blvd., #1343, Reseda, CA 91335. All other information, call (818) 716-5914.

**INDEX TO ADVERTISERS**

READER SERVICE NO.	ADVERTISER	PAGE NUMBER
61	Adcom	7-10, 48-49, 62-63
62	Akai	Cover 4
80	Altec Lansing	14-15
63	Audio Dynamics	95
65	Audio Research	75
66	Audio Technica/Design Acoustics	147
67	Signet	123
68	Axiom	101
1	Azden	201
2	Beyer Dynamic	107
69	Bryston	59
70	Cambridge Soundworks	87
3	Carver	88-89
71	Cerwin-Vega Crutchfield	69 200
5	Discwasher	39
12	Epicure	135
	Illinois Audio	216
75	Jamo HiFi	118
73	Jensen/Advent	137
74	Klipsch	73
55	Koss	108
76	Luxman	53-56
77	Magnepan	184
78	Mitsubishi	42-44
	Nakamichi	2
72	Oak Tree Industries	35
79	Ohm	138-139
	Onkyo	103-105
81	Ortophon	134
	Pinnacle Speakers	140
35	Pioneer	21-30
90	Perfectbound Press	67, 177
10	Polk	Cover 2, 1
	Proton	61
	Radio Shack	37
82	Reel to Reel Designs	107
13	Sherwood	Cover 3
	Wisconsin Discount	219

**hifi buys**

**YOU CAN AFFORD SOMETHING BETTER AT HIFI BUYS**

**WE CARRY THE BEST STEREO & VIDEO AT THE BEST PRICE!**

- Advent
- Bang & Olufsen
- Bazooka
- Belles
- Carver
- Denon
- Infinity
- KEF
- Kenwood
- Kicker
- Magnavox
- Mitsubishi
- Monster Cable
- Nakamichi
- NEC
- Panasonic
- Pickering
- Sennheiser
- Sharp
- Signet
- Sony
- Starx
- Thorens
- Toshiba
- Velodyne
- Yamaha
- AND MORE!

**14 ATLANTA LOCATIONS (404) 436-1231**

**The Best Price on Sound Advice**

At SOUND STAGE you can talk to a knowledgeable salesperson who will advise you on the best audio or video equipment that meets your needs and budget. From our large selection you can compare performance specifications and prices.

**ALL SOUND STAGE equipment includes:**

- 30-day best price protection
- free 3-year warranty with parts & labor
- free delivery

**PLEASE, NO MAIL ORDER**

NAD	CARVER	DENON	BANG & OLUFSEN
ADS	M&K	ENERGY	DBX SOUNDFIELD
CWD	GRADO	ELITE	AUDIO CONTROL
DCM	PULSAR	SIGNET	MONSTER CABLE
NEC	KLOSS	UNGO BOX	
	AMBRIA	TALISMAN	

Call for store hours  
 (718) 961-9888

173 Broadway  
 NYC, NY 10007  
 (NW corner of  
 B'way & Cortlandt  
 Enter on Cortlandt  
 One flight up.)  
 OR  
 164 10 Horace Harding Expwy  
 Fresh Meadow, NY 11365 (Exit 251 LE)

**SOUND STAGE**  
 AUDIO-VIDEO

**SINGERS!**  
**REMOVE VOCALS**  
**FROM RECORDS AND CDs!**

**SING WITH THE WORLD'S BEST BANDS!**

An Unlimited supply of Backgrounds from standard stereo records! Record with your voice or perform live with the backgrounds. Used in Professional Performance yet connects easily to a home component stereo. This unique product is manufactured and sold Exclusively by LT Sound - Not sold through dealers. Call or write for a Free Brochure and Demo Record.

**LT Sound**, Dept. SBG, 7980 LT Parkway  
 Lithonia, GA 30058 (404) 482-4724  
 Manufactured and Sold Exclusively by LT Sound  
**24 HOUR PHONE DEMO LINE: 140-4482-2485**

**EQUIPMENT**

**WE SELL SECOND HAND HIGH QUALITY AUDIO VIDEO MONEY BACK GUARANTEE!**

Send Name and Address for FREE MONTHLY INVENTORY

**ROSS STEREO**  
 2423 Morena Blvd. San Diego, CA 92110  
 (619) 275-3632

Stereo Review

**MAIL ORDER MART**  
 lets you turn up the volume where your customers are...

Want to beam your mail order message where the customers are? Sell surplus inventory? STEREO REVIEW's new Mail Order Mart was designed with your marketing needs in mind. And this flexible new medium is so budget-wise, you can't afford not to use it!

Call Toll Free  
**(800) 445-6066**

**WANTED TO BUY**

**WE NEED QUALITY COLLECTIONS. "TOP DOLLAR PAID" for LP's, Compact Discs, and Cassettes: Classical, Rock, etc. USA's LARGEST USED AND COLLECTOR SHOP. PRINCETON RECORD EXCHANGE, 20 Tulane Street, Princeton, NJ 08542. (609) 921-0881.**



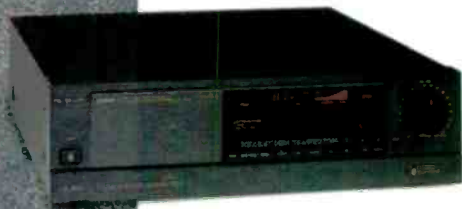
# HAPPY HOUR FOR YOUR EARS.

This could be the most important hour of your day. So don't leave anything to chance. Make sure you have the right company, the right music and components from Sherwood.

Because Sherwood's audio components combine the right balance of state-of-the-art electronics and legendary design for superior music reproduction.

They even feature theater-like *Dolby® Surround Sound* for a true-to-life musical experience. And our components are compatible with our exclusive *DIGI-LINK™* wireless remote, which allows you to command your entire Sherwood system from a single remote control.

But all you need to know is Sherwood lets you hear your music the way you want to hear it. So when it's time to unwind, treat yourself to a Sherwood.



RA-1340R

 **Sherwood®**

BECAUSE YOUR MUSIC COMES FIRST™

CIRCLE NO. 13 ON READER SERVICE CARD

3845 Artesia Blvd. Cerritos, CA 90701

©1988 Inkel Corporation

Dolby is trademark of Dolby Laboratories Licensing Corporation.

# What happens when a real hi-fi company and a real VCR company builds an A/V receiver.



AA-V435-B  
Remote Controlled  
A/V Receiver



If you would only buy audio from a *real* hi-fi company and video from a *real* video manufacturer, from whom do you buy audio/video? The company that builds both *high-end* audio and video. Akai.

Akai's AA-V435-B A/V Receiver is proof of what happens when audio and video are fully integrated. Its audiophile features include a "clean" 125 watts per channel; variable loudness, external processor loop, motor-driven volume control, source direct and much more.

The AA-V435-B's extensive video capabilities include the widest assortment of audio/video inputs and outputs including S-VHS, front panel video, and video RE

The true beauty of the sleek AA-V435-B is the way it

ties everything together. Featuring the most logical rear panel and internal switching designs, it takes full control of your audio/video system, even remotely with its universal remote (capable of "learning" up to 35 functions from almost any remote audio or video components).

Sight and sound are brought together to create a genuine theatrical experience via the AA-V435-B's Dolby® Surround Decoder, which even includes extra stereo amplifiers for two rear speakers.

The Akai AA-V435-B. Built for people who know that the very best in audio/video only happens when audio and video are treated as one.

\*Continuous average power output. Both channels driven into 8 ohms. From 20 Hz to 20 kHz at no more than 0.05% THD. Dolby is a trademark of Dolby Laboratories Licensing Corporation.

## AKAI

Where audio and video are one.

The Akai Division of Mitsubishi Electric Sales America, Inc., 225 Old New Brunswick Road, Piscataway, NJ 08854

CIRCLE NO. 62 ON READER SERVICE CARD