FREE Microphone with Speaker Purchase
Free Audix OM2 Microphone with purchase of Audix PH250 monitor pair through 6/30/01!
See page 8

NEW CD Recorders
Large selection of new CD-R burners from Denon, Microboards and Sony
See pages 44-46

Expanded Wire/Cable
Wire and cable section now includes digital audio cables
See pages 70-72

FREE
FREE Shock mount with purchase of Sennheiser MD421II studio microphone.
See pages 80

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If we have it in stock, we will ship it the same day. Just call us by 5:00 PM Eastern Time.*

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* Applies to domestic customers with approved credit

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For over 28 years, audio professionals worldwide have come to depend on BSW for all their audio needs.

We are honored to have you as a customer!

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- Payment via bank card 
- Payment via Wire Transfer.

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We know fast delivery is important to you, so we make every effort to stock the items you need. Our warehouse is filled with thousands of items available for immediate shipment. However, at our discretion some products will be shipped directly from the manufacturer. We offer a variety of shipping options and carriers to save you money and time. Shipping charges, plus a minimal handling fee will be additional, so please call for price quotes if paying in advance. BSW ships F.O.B. Point of Origin unless other arrangements are made and approved in advance.

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BSW is not responsible for typographical or photographical errors. Prices and specifications subject to change without notice. Suitability of products for intended use is the sole responsibility of the customer. All factory warranties apply. Service and repair must be completed at designated factory repair centers. BSW will not be responsible for any damage resulting from the equipment’s provide or delivery issues. BSW strives to provide you with the very best in professional audio equipment and service. We go to great lengths to ensure that your order is correctly filled in a quick and concise manner; however, an occasional error may occur. In these situations, BSW stands ready to correct the problem and work with you to resolve the situation in a timely manner.

BSW cannot assume responsibility for delays or errors caused by carriers, manufacturers or others in the course of doing business.

* Non-inventory item subject to return restrictions.

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Alesis' RA Series power amps provide more power and better performance at a lower cost per watt than other amps on the market. Designed for studio use, the RA amps incorporate advanced convection cooling for heat dissipation. Most importantly, they provide a crisp, clean signal to your studio monitors. Features: 45, 90 or 150 watts into 8 ohms; signal to noise ratio >105dB; distortion <.02% at 4 ohms.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Mfr. List Price</th>
<th>Special Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>RA150</td>
<td>45 watts/channel into 8 ohms power amp</td>
<td>$259.00</td>
<td>$199.00</td>
</tr>
<tr>
<td>RA300</td>
<td>90 watts/channel into 8 ohms power amp</td>
<td>$359.00</td>
<td>$279.00</td>
</tr>
<tr>
<td>RA500</td>
<td>150 watts/channel into 8 ohms power amp</td>
<td>$459.00</td>
<td>$379.00</td>
</tr>
</tbody>
</table>

BGW PERFORMANCE SERIES
High-quality BGW power amps are perfect for use in any type of permanent or mobile installation and they're THX approved for cinemas. The PS1 offers 110 watts/channel into 8 ohms; the PS2 offers 220 watts and the PS3 offers a full 330 watts per channel at 8 ohms. Features: low profile 2U chassis; transient free switching; modular design; balanced XLR and 1/4" inputs; forced-air cooling; welded steel chassis; LED indicators; detented gain controls; switchable clipping eliminator circuit; 3-year warranty.

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<tbody>
<tr>
<td>PS1BGW</td>
<td>110 watts/channel into 8 ohms power amp</td>
<td>$874.00</td>
<td>$681.00</td>
</tr>
<tr>
<td>PS2BGW</td>
<td>220 watts/channel into 8 ohms power amp</td>
<td>$1,028.00</td>
<td>$801.00</td>
</tr>
<tr>
<td>PS3BGW</td>
<td>330 watts/channel into 8 ohms power amp</td>
<td>$1,440.00</td>
<td>$1,123.00</td>
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</table>

CROWN CE SERIES
CE Series amplifiers have the rugged construction that characterizes Crown amplifiers, but at a very affordable price level. Features: front panel level controls; useful function indicators including power, signal, clip and fault; fan-assisted cooling; short circuit protection; 3-year warranty.

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<tbody>
<tr>
<td>CE1000</td>
<td>275 watts/channel into 8 ohms power amp</td>
<td>$731.00</td>
<td>$682.00</td>
</tr>
<tr>
<td>CE2000</td>
<td>400 watts/channel into 8 ohms power amp</td>
<td>$1,043.00</td>
<td>$987.00</td>
</tr>
</tbody>
</table>

CROWN K SERIES
Popular K Series power amps are powerful and extremely reliable. Features: completely sealed construction; no fan noise; unmatched thermal efficiency; recessed front panel level controls; LED indicators; universal power supply; modular design in a wide variety of colors; XLR and 1/4" TRS input connectors; 3-way binding post output connectors; 3-year warranty.

<table>
<thead>
<tr>
<th>Model</th>
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<th>Mfr. List Price</th>
<th>Special Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>K1</td>
<td>350 watts/channel into 8 ohms power amp</td>
<td>$1,559.00</td>
<td>$1,185.00</td>
</tr>
<tr>
<td>K2</td>
<td>475 watts/channel into 8 ohms power amp</td>
<td>$1,872.00</td>
<td>$1,422.00</td>
</tr>
</tbody>
</table>
CROWN
MACRO-TECH/MICRO-TECH SERIES

Powerful power amps from Crown are a staple in the music performance industry. Macro-Tech models feature very low distortion with extremely high dynamic range; patented Output Device Emulation Protection circuitry compensating for overheating and overloads; input/output Comparator circuitry immediately alerts of any distortion exceeding .05% providing dynamic proof of distortion-free performance; front panel level controls; stereo, bridged mono and parallel mono modes; balanced XLR and 1/4" TRS inputs; binding post output connectors.

The more economical Micro-Tech models offers powerful performance without some of the extras found in the Macro-Tech. They include rear panel level controls and 1/4" TRS inputs.

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The more economical Micro-Tech models offers powerful performance without some of the extras found in the Macro-Tech. They include rear panel level controls and 1/4" TRS inputs.

MACKIE
M800/M1400i

The M800 and M1400i deliver excellent audio quality, reliability under extreme conditions and watts-per-dollar value! Features: front panel level controls; T-design constant gradient fan cooling; ultra-low impedance capability; built-in sweepable constant directivity horn compensation; built-in sweepable high-pass filter; flat response over a wide frequency range (+0/-3 dB from 10 Hz to 70 kHz); low distortion (M1400i THD is only .012% at 8 ohms; M800 is only .025%); XLR thru, 1/4" TRS and 5-way binding post outputs.

QSC
PLX SERIES

The PLX series power amps feature studio-quality audio performance including virtually inaudible hum and noise (-110 dB 20 Hz-20 kHz) and ultra-low distortion performance (.03% THD at rated power into 8 ohms). Features: PowerWave supply delivers tight high output bass; compact chassis fits in any rack; LED indicators include bridge mono and parallel input modes; all metal XLR and 1/4" balanced inputs; selectable clip limiting and subsonic filters for each channel; 4-wire shock-proof binding posts; true soft start turn-on.

P SERIES

HAFLER

Hafler manufacturers some of the finest amps for powering your studio monitors. The single-rack space P1000 is an excellent choice for powering smaller speakers. It offers 50 watts/channel into 8 ohms, soft-start power-up, silent convection cooling; clip and thermal indicator lights; and a headphone jack. Inputs use XLR/1/4" combination connectors. The dual-rack space P1500 and P3000 power amps offer higher outputs (75 watts and 150 watts), MOSFET output stages; overload indicator lights and 5-way binding post output connectors.

Symetrix
420

This affordable Symetrix amplifier is an excellent value. Features: front panel level controls and headphone jack with a speaker mute switch; mono/stereo mode switch and a switch to allow the gain controls to operate independently or be ganged together; THD < .02% at full power output.

Only $569.00
**Audio Meters**

**ATI**

**BGD SERIES**
Remote, shared power supplies let you mount these bright 3-color meters directly under video monitors or critical audio circuits with no possibility of magnetic interference. Economically display up to 12 audio channels in a single rack space. Multiple color, 10-segment displays are visible even in bright sunlight. VU models display -20 to +3 dBu, ROUND 0 VU; PPM models cover -15 to +12 dB. Features: High-impedance non-loading inputs accommodate balanced or unbalanced input signals; two-piece, quick release screw plug connector per input; optional power supply and rack adaptors available.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>BGD200VU</td>
<td>dual VU bargraph meter</td>
<td>$342.00</td>
<td>ONLY $342.00</td>
</tr>
<tr>
<td>BGD200PPM</td>
<td>dual PPM bargraph meter</td>
<td>$342.00</td>
<td>ONLY $342.00</td>
</tr>
<tr>
<td>BGD200PHASE</td>
<td>dual VU bargraph meter w/phase</td>
<td>$370.00</td>
<td>ONLY $370.00</td>
</tr>
<tr>
<td>BGD200PPMPHASE</td>
<td>dual PPM bargraph meter w/phase</td>
<td>$370.00</td>
<td>ONLY $370.00</td>
</tr>
<tr>
<td>BGD400VU</td>
<td>quad VU bargraph meter</td>
<td>$426.00</td>
<td>ONLY $426.00</td>
</tr>
<tr>
<td>BGD400PPM</td>
<td>quad PPM bargraph meter</td>
<td>$426.00</td>
<td>ONLY $426.00</td>
</tr>
</tbody>
</table>

**LOGITEK**

**VUB SERIES**
Logitek lighted mechanical meters have balanced, bridging, high impedance XLR input and rear panel zero adjustment control. Available in 2 or 4 display models, these meters are easy to install, are highly reliable and offer a phase checking button for each pair of meters. The "A" version has dB shown as the top scale of the meter. The "B" version has modulation shown as the top scale of the meter.

<table>
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<tbody>
<tr>
<td>2VUB-A</td>
<td>2 VU audio level display, &quot;A&quot; scale</td>
<td>$469.00</td>
<td>ONLY $469.00</td>
</tr>
<tr>
<td>2VUB-B</td>
<td>2 VU audio level display, &quot;B&quot; scale</td>
<td>$469.00</td>
<td>ONLY $469.00</td>
</tr>
<tr>
<td>4VUB-A</td>
<td>4 VU audio level display, &quot;A&quot; scale</td>
<td>$706.00</td>
<td>ONLY $706.00</td>
</tr>
<tr>
<td>4VUB-B</td>
<td>4 VU audio level display, &quot;B&quot; scale</td>
<td>$706.00</td>
<td>ONLY $706.00</td>
</tr>
</tbody>
</table>

**DORROUGH**

**40-A2/240A2**
Dorrough Loudness Meter model 40-A2 displays both the peak and average of the audio signal. The unique metering ballistics accurately present loudness variations on an easy-to-read scale. Dual inputs allow sum and difference metering. Peak Hold functions are standard along with a DB9 connector to access various over and under parameters. Other models are available with either 14dB (A scale) or 20dB (C scale).

<table>
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<th>Description</th>
<th>Mfr. List</th>
<th>Special Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>40A2</td>
<td>horizontal, single channel loudness monitor</td>
<td>$475.00</td>
<td>ONLY $475.00</td>
</tr>
<tr>
<td>240A2</td>
<td>vertical, single channel loudness monitor</td>
<td>$475.00</td>
<td>ONLY $475.00</td>
</tr>
</tbody>
</table>

**DORROUGH**

**280-D**
Designed for measuring AES/EBU digital audio, this meter displays both the peak and average, employing the same ballistics as the analog meters. Over indication and Peak Hold are incorporated. Complies with SMPTE 155 requirements.

<table>
<thead>
<tr>
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<th>Description</th>
<th>Mfr. List</th>
<th>Special Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>280-D</td>
<td>AES/EBU meter</td>
<td>$850.00</td>
<td>ONLY $810.00</td>
</tr>
</tbody>
</table>

**LOGITEK**

**BV2S SERIES**
See the audio signal and be alerted to silence on any of up to 6 stations using the Logitek Bright Series audio meter. Choose from 4 threshold levels and 4 time intervals per unit. Displays show VU and true peak. Available in either analog or digital inputs indicated by "A" or "D" suffix. XLR connectors.

<table>
<thead>
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</tr>
</thead>
<tbody>
<tr>
<td>BV2SA</td>
<td>2-input audio meter/silence alarm</td>
<td>$545.00</td>
<td>ONLY $545.00</td>
</tr>
<tr>
<td>BV2SD</td>
<td>4-input audio meter/silence alarm</td>
<td>$800.00</td>
<td>ONLY $800.00</td>
</tr>
<tr>
<td>BV6SA</td>
<td>6-input audio meter/silence alarm</td>
<td>$1,023.00</td>
<td>ONLY $1,023.00</td>
</tr>
</tbody>
</table>

**WOHLER**

**LM106-6/LM53-24**
It's easy to verify audio on multiple channels with these ultra high resolution, tri-color, LED bargraph analog level meters. The LM106-6 offers metering of 6 channels, each with 106-segment ladders mounted horizontally in 1U rack chassis. The LM5324 offers an amazing 24 channels of 53-segment vertically oriented bargraph meters mounted in a 2U rack chassis.

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<tbody>
<tr>
<td>LM1066</td>
<td>6-channel bargraph display unit</td>
<td>$1,988.00</td>
<td>ONLY $1,988.00</td>
</tr>
<tr>
<td>LM5324</td>
<td>24-channel bargraph display unit</td>
<td>$3,841.00</td>
<td>ONLY $3,841.00</td>
</tr>
</tbody>
</table>

Non-inventory item subject to return restrictions.
The new Furman MS2ADV-1 assures you that your audio and video signals have made it successfully through critical signal chains. Housed in a compact, durable, single rack space chassis, the MS2ADV-1 is the perfect addition to any system where remote confidence monitoring is necessary. Test carts, mobile trucks, and equipment closets are just a few of the applications where confidence monitoring is essential.

The feature packed MS2ADV-1 includes analog and digital audio monitoring using two high visibility, 14 segment meters, a pair of high output magnetically shielded speakers, and a 1.8” color LCD TFT display that auto senses NTSC/PAL. Rear panel features include two analog balanced inputs and outputs on XLR’s, an AES/EBU BNC input, a baseband video BNC input, signal present indicators on all audio inputs and outputs, and +/- gain controls on rear panel auxiliary outputs. The MS2ADV-1 is perfect for worldwide use as it utilizes a universal power supply.

- 1.8” color LCD TFT display auto senses NTSC/PAL
- High output magnetically shielded speakers
- Two channels of analog/digital audio monitoring plus video in 1RU
- +4 dBu or +8 dBu meter reference, front panel selectable
- Signal present indicators on all analog and digital I/O ports

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In-Rack Audio & Video Monitoring

Wohler Speaker Systems,

AMP2-VSDA
Top of the line speaker system accepts SDI and AES digital inputs together with analog. Features powerful 104dB high quality output, four level meters and phase indication. Decodes and/or demuxes digital signals.

Wohler Level Meters,

LM106-6
6 channels of 106-segment, ultra-high resolution tri-color LED bargraphs. Mounted horizontally in 1U chassis. Also available with Dolby Digital Decoder.

LM53-24
Monitor 24 channels of audio in only 2U. Features 24 channels of 53 segment, high resolution tri-color LED bargraph displaying audio levels. Unit is mounted vertically in a 2U chassis.

PANORAMA dTV LCD Video Monitors,

VAMP-24
Excellent unit for monitoring both audio and video directly from the rack. High quality color LCD video monitor offers confidence monitoring from either of two composite analog video inputs, auto-sense NTSC/PAL. Audio features internal or external speaker switch - no need for separate amplifier. 4 channel input selection and 4 high resolution 53 segment tri-color level meters.

VAMP-2SDI
Same features as the VAMP-24 analog unit with the added capability of accepting SDI and AES digital inputs. Converts SDI to analog composite video and offers output for use with larger external video monitors. All this in only 2U of rackspace.

MON4-3
Quad LCD color monitor in only 3U of rackspace. 4 High quality and very bright LCD monitors. Features adjustable viewing angle, full picture control, auto-sensing for NTSC / PAL and mix & match analog and digital video inputs. Perfect for confidence monitoring of multiple video feeds for mobile trucks, news and control room applications.

www.wohler.com  www.panoramadtv.com
**Audio/Visual Confirmation Monitors**

**PANORAMADTV**

VAMP24/VAMP2SDI

Monitor both audio and video from a single space-saving 2RU VAMP unit. The VAMP-24 allows monitoring of either of two selectable composite video sources and two groups of four analog inputs. Built-in LCD screen offers simple confidence monitoring of video (color) from either of two composite analog video inputs. VAMP-2501 allows simple confidence monitoring of video from either the SDI input or the auxiliary composite video input. Also included is a composite video monitor output from the selected SDI source for use with larger, external video monitors. Common Features: two groups of four audio channels each and supporting level meters; any of the four channels may be selected independently to the two-channel speaker system; headphone output, and phase indicator; high-resolution 53-segment tri-color LED bargraph level meters; switchable between NTSC/PAL (auto sensing on VAMP-2SDI); internal or external speaker switch - separate amplifier unnecessary; two composite video inputs (front panel A/B switch); two groups of four analog audio channels; audio follow video or select.

VAMP24  audio video monitor  Mfr. List $2,850.00  ONLY $2,817.00
VAMP2SDI  SDI audio/video monitor  Mfr. List $4,800.00  ONLY $4,745.00

**MON4-3**

MON4-3 is a Quad LCD color video monitor that will operate in both NTSC and PAL. It's perfect for confidence monitoring of multiple video feeds for mobile trucks, news and control room applications. Features: auto sensing of video standard, with front panel indication; four front panel trimpot controls per monitor for color, tint/hue, brightness and contrast; each video BNC input has a passive loop through, 75 ohm termination switch and individual power switch; built-in red/green tally lights are available from DB25 connector on rear panel and can be interfaced to most tally systems.

MON4-3  video confirmation monitor  Mfr. List $2,995.00  ONLY $2,961.00

**WOHLER**

AMP-1A

Wohler Technologies offers accurate, self powered monitoring systems in compact rack mount units. These speakers provide excellent magnetic shielding with optimally focused, high fidelity sound for operators in an "ultra-near-field" working environment. The AMP-1A contains five high performance transducers driven by three power amplifiers; two amplifier/driver combinations handle midrange and high-frequency information in stereo, while the third center channel reproduces information below the 500Hz crossover point. The unique design has two important advantages. First, it provides optimally focused sound for operators in the ultra near field (1 to 3 ft.) working environment. This allows higher SPL for the operator while reducing overall ambient sound and adjacent bay crosstalk. Second, electronic rather than acoustic cancellation of bass frequencies provides positive audible detection of out-of-phase (reversed polarity) audio feeds. Features: 98 dB SPL at 2 ft; excellent HF response for positive detection of background whine and noise; audible indication of phase/polarity problems; headphone jack; thorough magnetic shielding for placement next to video monitors; quick and easy installation: simple slide in the rack and connect audio and AC power; balanced and unbalanced inputs.

AMP1A  amplified audio monitoring system  Mfr. List $715.00  ONLY $647.00

**WOHLER**

AMP2-VSDA

This top-of-the-line speaker system accepts SDI and AES digital inputs together with analog. Features: highest fidelity 2U stereo speakers; 20-segment LED level meters with accurate VU or PPM ballistics, and visual phase/polarity indication; headphone output; 2 AES/EBU inputs on BNC and selectable group of four analog inputs on XLR; simultaneous digital-analog conversion of both AES/EBU signals with four channel analog output on Phoenix connectors; select one of four analog channels on left; one of same four on right; two channel analog out of selected channel(s) on XLRs.

*AMP2-VSDA  audio monitoring system  Mfr. List $2,600.00  ONLY $2,350.00

**ALESIS**

M1 ACTIVEMKII/MONITOR ONE MK2

The Alesis M1 ACTIVEMKII's internal active crossover and custom-designed dual amplifiers ensure a broad, extremely accurate frequency response with clear imaging. The amplifiers (a 75-watt woofer amp and 25-watt tweeter amp) along with 8th order high and low-pass electronic crossover filters provide superb audio reproduction. The M1 Active's woofer and tweeter were specifically designed for the most linear, low distortion response in powered monitoring applications. Its 6.5" woofer cone is formulated from non-woven carbon fiber. Priced as pair.

Alesis Monitor One Mk2 is a passive near-field reference speaker with wide frequency response, clear imaging and high power handling capability. In the new Mk2 version, they included a new 6.5" polypropylene low-frequency driver for tighter, more accurate bass response and matched newly redesigned, 1" pure silk-dome, high-frequency transducers. They improved the overall frequency response and coupled it with more efficient power handling. They also provided magnetic shielding. Priced as pair.

M1ACTIVEMKII  6.5", 2-way biamplified monitors (pair)  Mfr. List $1449.00  ONLY $499.00
MONITOR1MK2  6.5", 2-way studio monitors (pair)  Mfr. List $299.00  ONLY $249.00

**BEHRINGER**

TRUTH

The Behringer B2031 Truth sports two separate amplifiers for low and high frequencies. With 150 and 75 watts respectively, they have plenty of power to meet all of your monitoring needs. The 8.75" woofer features a special polycarbonate diaphragm and a sturdy cast aluminum chassis. A newly designed bass reflex system increases its efficiency, effectively reducing low-frequency distortion. The high-end is reproduced by a state-of-the-art ferrofluid-cooled 25 mm tweeter. Features: full magnetic shielding; well-balanced vertical and horizontal dispersion for extremely wide "sweet spot"; overload protection via integrated limiter, separately controlled for low and high frequencies; servo-balanced inputs with XLR and 1/4" TRS connectors. Priced as pair.

B2031  8.75" 2-way biamplified monitor  Mfr. List $799.00  ONLY $649.00

*Non-inventory items subject to return restrictions.
**Studio Monitors**

**AUDIX**

**AUDIX SERIES**

Audix has combined great sound quality and very competitive pricing in these compact powered monitor sets (one speaker holds the amplifier, the other is a satellite speaker). Both models feature magnetically shielded cabinets.

The PH5VS features a 5-1/4" woofer and 3/4" tweeter driven by a 25-watt-per-channel internal amplifier. It is housed in a durable, high impact plastic cabinet with a wire mesh speaker grill. Inputs to the amplifier are RCA unbalanced. The speaker pair is connected via a standard speaker cable with 1/4" connectors (included). Priced as pair.

The PH150 is housed in a dense particle-board cabinet with front porting. It features a 3/4" polycarbonate-dome, ferrofluid tweeter and a 5-1/4" long-exursion, rubber surround woofer powered by an internal 45-watt-per-channel amp. High-quality crossovers ensure superb definition and clarity. Priced as pair.

- **PH5VS** 5.25", 2-way amp. monitors (pair)  Mfr. List $299.00    **ONLY** $271.00
- **PH150** 5.25", 2-way amp. monitors (pair)  Mfr. List $479.00    **ONLY** $379.00

**ELECTRO-VOICE**

**S40B**

The Electro-Voice S-40 is a high-performance, 5.25" 2-way personal sized monitor housed in a high-impact polystyrene enclosure. It features exceptional bass response for its size, smooth, extended top end and independent protection for the woofer and tweeter. Long-term power handling is rated at 160 watts. Options: mounting hardware allows stand mounting or wall and surface placement. Priced as pair.

- **S40B** 5.25", 2-way studio monitors  Mfr. List $418.00    **ONLY** $275.00

**EVENT**

**20/20 SERIES/PS SERIES**

The popular Event 20/20 offers reliable, flat monitoring that's very affordable. Features: 25mm silk-dome tweeter; 8" woofer with highly damped rubber surround for consistent and smooth extended range frequency response; cabinet with extra acoustical damping to reduce standing waves; front mounted large diameter bass port; 2nd order passive crossover. Priced as pair.

The powered 20/20bas includes the components of the 20/20 with the following additions: active asymmetrical 4th order crossover; 130-watt LF amplifier and 70-watt HF amplifier; front panel power on/clip LED; a combination 1/4"/XLR input. Priced as pair.

The Event Project Studio series (P55, P56, P58) biamplified monitors deliver detailed and accurate sound, just like its respected forebears, the award-winning 20/20. Choose from three sizes, each which deliver non-fatiguing, wide-range reference monitoring and fits easily in any studio. Features: magnetically shielded; 70-watt LF amplification; 30-watt HF amplification; front ported design; balanced XLR and 1/4" inputs. Priced as pair.

- **20/20** 8", 2-way studio monitors (pair)  Mfr. List $399.00    **ONLY** $303.00
- **20/20 BAS** 8", 2-way biamplified monitor (pair)  Mfr. List $999.00    **ONLY** $758.00
- **P55** 5.25" 2-way biamplified monitors (pair)  Mfr. List $599.00    **ONLY** $455.00
- **P56E** 6.5" 2-way biamplified monitors (pair)  Mfr. List $699.00    **ONLY** $531.00
- **P58** 8" 2-way biamplified monitors (pair)  Mfr. List $949.00    **ONLY** $645.00

**ELECTRO-VOICE**

**SENTRY 100A/SENTRY 100EL**

The Sentry 100A is a compact, no frills speaker system. It's the oldest member of the Sentry family and has become the industry standard of reliability. The Sentry 100A delivers a flat 45 to 18,000 Hz frequency response with a wide 120° dispersion at 5,000 Hz. The Super Dome tweeter handles a remarkable 25 watts of input power and is magnetically shielded; small footprint; reference-quality frequency response (down to 55 Hz for the satellite speakers, down to 35 Hz for the VLF driver). Priced as pair.

- **SENTRY 100A** 8" 2-way monitor (each)  Mfr. List $612.00    **ONLY** $399.00
- **SENTRY 100EL** 8" 2-way biamplified monitor (each)  Mfr. List $1,178.00    **ONLY** $779.00

**EVENT**

**TRIA**

This monitoring system perfectly complements any digital audio workstation environment. The Tria three-piece monitoring system comprises a floor-loaded 8" subwoofer housed with five separate power amplifiers (80 watts each woofer; 40 watts each tweeter), active crossovers, and a full set of calibrated trim and level controls. These amplifiers power the two biamplified satellite speakers, each with a 5-1/4" polypropylene cone driver and 1" natural silk dome neodymium driver. Features: magnetically shielded; small footprint; reference-quality frequency response (down to 55 Hz for the satellite speakers, down to 35 Hz for the VLF driver). Priced as system.

- **TRIA** 5.25", 2-way biamplified studio monitors with subwoofer  Mfr. List $999.00    **ONLY** $758.00
6301 BEAV

6301 BEAV are the perfect personal powered monitors. Features: built-in 10-watt amplifiers; magnetically shielded to protect nearby computer monitors; rotary level control; automated protection circuitry; balanced XLR and phone jack inputs. Priced as each.

4" 1-way amplified monitor (each)
Mfr. List $189.00
ONLY $179.00

4206/4208

This radical speaker design was developed for near-field monitoring with maximum stereo imaging and reduced listener fatigue. High frequency and low frequency drivers are offset and aimed to deliver both HF and LF information to the listening position at precisely the same instant. All models feature a charcoal laminate finish. The model 4206 features a 6" LF Driver and 1" pure titanium dome tweeter. Priced as pair. The 4208 offers an 8" LF Driver and 1" pure titanium dome tweeter. Priced as pair.

6" 2-way studio monitors (pair)
Mfr. List $388.00
ONLY $297.00

8" 2-way studio monitors (pair)
Mfr. List $510.00
ONLY $389.00

JBL's 4400A series studio monitors have become one of the most frequently asked-for speakers in the broadcast industry. Included in the series are the 4408A (8", 2-way), 4410A (10", 3-way) and the 4412A (12", 3-way). Quality components and circuitry produce smooth, accurate audio monitoring. JBL has given the 4400As an improved look with matte grey laminate finish and charcoal grille cloth. Priced as each.

8" 2-way (left or right) studio monitor (each)
Mfr. List $355.00
ONLY $289.00

10" 2-way (left or right) studio monitor (each)
Mfr. List $490.00
ONLY $399.00

12" 3-way (left or right) studio monitor (each)
Mfr. List $735.00
ONLY $599.00

JBL 4206

This radical speaker design was developed for near-field monitoring with maximum stereo imaging and reduced listener fatigue. High frequency and low frequency drivers are offset and aimed to deliver both HF and LF information to the listening position at precisely the same instant. All models feature a charcoal laminate finish. The model 4206 features a 6" LF Driver and 1" pure titanium dome tweeter. Priced as pair. The 4208 offers an 8" LF Driver and 1" pure titanium dome tweeter. Priced as pair.

6" 2-way studio monitors (pair)
Mfr. List $388.00
ONLY $297.00

8" 2-way studio monitors (pair)
Mfr. List $510.00
ONLY $389.00

JBL 4400A SERIES

The Linear Spatial Reference (LSR) studio monitors combine JBL's latest in transducer and system technology with recent breakthroughs in psychoacoustic research to provide a more perfect studio reference. Features: Differential Drive® technology with dynamic braking for extended low frequency response and low power compression; titanium composite high frequency device with elliptical oblate spherical waveguide and damped pole piece; carbon fiber composite baffle for low cabinet resonance and stable inertial ground. LSR25P are biamplified two-way monitors with a 5.25" low frequency transducer and 1" high frequency titanium transducer. Amplifiers supply 80 watts to the LF and 40 watts to the HF. LSR32 are 3-way passive monitors featuring a 12" woofer, 2" midrange and 1" tweeter to provide the greatest audio range and accuracy. All are priced as each.
Audio Monitoring

JBL
CONTROL SERIES

These speakers not only sound great, they combine rugged construction with a variety of mounting options for maximum flexibility. Control 1 is a two-way system with a 5 1/4" low frequency speaker and a polycarbonate dome tweeter. Frequency response is 70 Hz - 20 kHz. Control 5 features a 6 1/2" woofer and larger cabinet for extended bass response. Both are priced as pair.

CONTROL1
5.25", 2-way studio monitors (pair)  
Mfr. List $314.00  
ONLY $245.00

CONTROL5
6.5", 2-way studio monitors (pair)  
Mfr. List $538.00  
ONLY $420.00

MACKIE

HR824

Mackie's high-performance HR824 monitors offer superb audio precision. The stereo sound field is wide, deep and incredibly detailed. High frequencies and low frequencies are clean and articulated. The speakers are perfectly matched by an engineer using an oscilloscope and yes, the frequency response is extremely flat (+/-1.5 dB from 39 Hz to 22.5 kHz). Features: 2-way design (8.75" LF, 1" HF); bi-amplification (150 watts/100 watts); no porting; low-frequency roll-off switch; acoustic space switch; highest quality components throughout; balanced XLR and 1/4" inputs. Priced as each.

HR824
8.75", 2-way biamplified studio monitor (each)  
Mfr. List $749.00  
ONLY $659.00

YAMAHA

NS10MS

The industry standard Yamaha NS-10MS studio speaker system has been created specifically for close-field monitoring in professional sound studios. Optimum 7" woofer/1" tweeter matching and careful crossover design ensure smooth, natural transition between frequency ranges with minimum phase variation. Frequency response is remarkably flat from 60 Hz right up to 20 kHz, and superior transient response delivers crisp, transparent sound. Priced as pair.

NS10MS
7", 2-way studio monitors (pair)  
Mfr. List $498.00  
ONLY $378.00

YAMAHA

MSP5/MSP10/SW10

The Yamaha MSP5 biamplified monitors deliver extraordinary sound quality at an equally extraordinary price. Features: flat frequency response out to 40 kHz; 5" woofer and 1" titanium tweeter; biamplification (40 watts LF, 27 watts HF); XLR and 1/4" inputs; magnetic shielding.

MSP5
5", 2-way biamplified studio monitor (each)  
Mfr. List $319.00  
ONLY $249.00

MSP10
8", 2-way biamplified studio monitor (each)  
Mfr. List $749.00  
ONLY $599.00

SW10
10" amplified subwoofer  
Mfr. List $849.00  
ONLY $679.00

OMNIMOUNT/QUIKLK

100WABC

This popular wall speaker mounts holds the speaker at a 45 degree angle with a maximum load of 55 lbs. Black color. Priced as pair.

100WABCPR
wall speaker mount up to 55 lbs. (pair)  
Mfr. List $199.90  
ONLY $142.00

QL/60

The QL60 offers adjustable support for speakers weighing up to 60 lbs. Unit can be mounted for right/left or up/down pivoting. Priced as each.

QL60
60 lb. wall speaker mount (each)  
Mfr. List $60.00  
ONLY $45.00

* Non-inventory item subject to return restrictions.
Audio Monitoring

QUIKLok

BS SERIES

BS342 is a sturdy steel monitor stand (triangle base) at a fixed height of 42". The large, sturdy metal shelf comes with soft rubberized padding to reduce vibration.

BS315 is a variable height monitor stand (31.5" to 49.25"). All are priced as pair.

<table>
<thead>
<tr>
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<td>BS336</td>
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<td>BS315</td>
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PA Speaker Stands

ATLAS/QUIKLok

SS33E

This heavy-duty aluminum speaker stand supports up to 150 lbs. Height adjusts from 48" to 85". Several mount adaptors available.

<table>
<thead>
<tr>
<th>Product</th>
<th>Mfr. List</th>
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<tbody>
<tr>
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QUIKLok

SP180 SERIES

The SP180 tripod is a lightweight, yet sturdy aluminum stand for support of speakers up to 200 lbs (extends from 3’ 6" to 8’ 4"). Superior air-cushion design and 1-3/8” center tube gently lowers speaker cabinets, eliminating sudden drops.

<table>
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<tr>
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<td>SP180SR</td>
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</table>

ULTIMATE

TS80 SERIES

These sturdy, lightweight aluminum stands can support speakers up to 150 lbs. The TS80 adjusts in height from 3’8” to 6’ 7”; the TS88 adjusts in height from 5’2” to 9’2”. The TS-88TL features an extendable leg that allows two legs to sit on a raised surface such as a stage stair, while the extended leg reaches to the floor to hold it level and secure. Silver color. Black available at extra cost.

<table>
<thead>
<tr>
<th>Product</th>
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</table>

JBL

EON15G2

The EON15 G2 is a full range professional speaker with an integrated amplifier and basic mixer built into one package. This cost-effective, versatile system is ideal for radio remotes, bands, clubs, schools, churches, A/V houses, hotels and many others. EON’s input section allows both mic and line level inputs. In addition, the new Loop/Mix output allows you to daisy-chain EON speakers or send signal directly to the main PA. JBL’s exclusive Neodymium Differential Drive® transducer provides superior audio performance while reducing weight. Thermomaster® technology prevents thermal problems often exhibited in competitive products and eliminates the need for cooling fans and ugly external heatsinks, even at high volumes. With the EON15 G2’s additional power, you get cleaner, clearer sound at any volume. The low frequency has 300 watts and 100 watts are dedicated to the high frequency horn. Priced as each.

<table>
<thead>
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<th>Product</th>
<th>Mfr. List</th>
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<tr>
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* Non-inventory item subject to return restrictions.
PA Speakers and Accessories

MACKIE
SRM450/C300I/SRS1500

SRM450's are powerful PA speakers accurate enough to be called monitors. Active sound reinforcement brings truckloads of power to any event, yet offers the listening criteria reserved for high-end studio monitors in an live sound environment. Features: 2-way design (12" LF, 1.75" HF); bi-amplification (300 watts/150 watts); built-in precision 24 dB/oct electronic crossover; dispersion horn design; high SPL output/extremely low distortion; electronic time correction, phase alignment and equalization.

C300I are passive monitors with 300-watt power handling capability. 1/4" connectors. Priced as each.

SRS1500 is a 600-watt amplified subwoofer (15" transducer).

See page 13 for complete Mackie PA Systems

RDL
SPEAKER Crossovers

Radio Design Labs' Stick-Ons™ are compact, high-quality audio interface devices that can be directly and discreetly mounted on equipment, under counter tops, or combined in rack mount systems. Active units require a 24-volt power supply such as the PS24A (sold separately).

STCX1F: full-range crossover (100 Hz - 30 kHz).
STCX1W: woofer crossover (40 Hz - 165 Hz).
STCX1S: subwoofer crossover (22 Hz - 80 Hz).

Fender Passport Series

Truly unique, the Fender Passport is a totally self-contained portable sound system complete with a self-powered 4-channel mixer, 2 full-range speaker units, 2 dynamic cardioid microphones and all the necessary connection cables. Setup takes no more than five minutes and the audio performance is excellent. Features: 250 watts of pure stereo power at 8 ohms (125 WPC); 4-channel, 8-input mixer; 2 additional stereo channels; sophisticated one-touch equalization; digital reverb with remote bypass; eight 6.5" high-efficiency drivers in two cabinets; switchable line voltage for international use; selectable main-monitor operation; tape out jacks for performance recording; on-board storage for mics and cables; auxiliary send and return jacks; amplifier send and return jacks; total weight 53 pounds.

Also available is the P-150 system with 75 watts per channel, 3 mic/line plus one stereo input, one microphone and connecting cables. Complete your PA system with many accessories designed specifically for your Fender package.

The P250WIRELESS microphones plug into the back of the system. Each consists of a cardioid condenser mic, transmitter and receiver.

The 12VDC-DC power converter enables the Passport system to operate on 12-volt battery power. Take along the BATTERYPACK and you have a rechargeable 12-volt DC battery pack for use with the converter.

For mounting speakers up high, purchase the ST275 black anodized aluminum tripod stands.

The Passport TRAVELPACK consists of a specially fitted luggage cart and heavily padded travel cover to make transporting a snap.

See page 13 for complete Fender PA Systems

Fender Passport Accessories

*P250WIRELESS: wireless mic system for Fender P250
Mfr. List: $300.00  ONLY $210.00

*12VDC-DC: 12-volt adaptor for Fender P250
Mfr. List: $150.00  ONLY $108.00

BATTERYPACK: rechargeable 12-volt power for P250
Mfr. List: $200.00  ONLY $143.00

*ST275: speaker tripod pair for Fender P250
Mfr. List: $230.00  ONLY $165.00

TRAVELPACK: cover and travel cart for Fender P250
Mfr. List: $120.00  ONLY $86.00

* Non-inventory item subject to return restrictions.
**Build Your Own High-Performance Mackie PA System**

- **MACKIE PPM SERIES**
  - Mackie has 6x tough, hit-the-road mixers with plenty of power (up to 1200 watts) to drive your C300i PA speakers. Choose from models with 6, 12, or 16 channels (all mono) up to 8 channels (6 mono, 2 stereo).
  - Features:
    - 32-bit digital effects processor with 16 different effects and 2 controllable parameters per effect; input gain control; twin power amplifiers; inserts on channels 1-6; 3-band EQ on each channel; phantom power and more.
  - **406M**
    - 500-watt, 6-channel mono mixer
    - MR. List $699.00
    - *ONLY $599.00*
  - **408M**
    - 500-watt, 8-channel mono mixer
    - MR. List $799.00
    - *ONLY $699.00*
  - **408S**
    - 500-watt, 8-channel stereo mixer
    - MR. List $799.00
    - *ONLY $699.00*
  - **808M**
    - 1200-watt, 8-channel mono mixer
    - MR. List $899.00
    - *ONLY $799.00*
  - **808S**
    - 1200-watt, 8-channel stereo mixer
    - MR. List $999.00
    - *ONLY $899.00*

- **MACKIE CFX SERIES**
  - Available in affordable 12- and 16-channel models, these CFX mixers with built-in effects modules make great PA system mixers. Just add powered speakers (like the SRM450 shown at right). Features:
    - 16 channels (12 mic/line mono and 2 stereo line) or 12 channels (8 mic/line and 2 stereo line); 16 digital effects with 32-bit internal EMAC processing; 9-band graphic program equalizer; trim control with 50 dB of gain for low-output mic; 430 dB of line-level gain and a full 15 dB of attenuation to "pad" hot signals; inserts on all mic channels and mains; Aux Sends, external and internal EFX Sends; 12kHz shelving high-frequency EQ; 80Hz shelving low-frequency EQ; Pre-Fader Solo switch lets you monitor the channel via headphones; subgroup bus; "collect" channel signals assigned to them so you can submix vocals, instruments, etc.; tape level control; unbalanced RCA I/O; balanced/unbalanced 1/4" TRS and balanced XLR outputs for mains; headphone jack; subwoofer output from built-in 18dB/oct. 75Hz crossover; extra utility outputs with their own level control/stereo chassis.
  - **CFX12**
    - 12×4×2 compact mixer w/ effects
    - MR. List $699.00
    - *ONLY $599.00*
  - **CFX16**
    - 16×6×2 compact mixer w/ effects
    - MR. List $899.00
    - *ONLY $799.00*
  - **C3001**
    - 12×2-way PA speaker
    - MR. List $499.00
    - *ONLY $399.00*

**Combine NEW CFX Mixers with amplified SRM450 speakers**

- **MACKIE SRM450**
  - SRM450s are powerful PA speakers. Active sound reinforcement brings truckloads of power to any event.
  - Features:
    - 2-way design (12" LF, 1.75" HF); bi-amplification (300 watts/150 watts); built-in precision 24 dB/oct. HF); bi-amplification (300 watts/150 watts); 1.75" HF) allowing for tonal adjustment; two aux send controls (one pre-fader and one post-fader) may be used for monitor returns or setting up the routing scheme for effects processing; individual insert points on each channel; headphone jack; 48-volt phantom power; balanced XLR and TRS I/Os.
  - **SRM450**
    - 8 channel inputs (4 mono and 2 stereo); 4 mic preamps with phantom power; 3-band EQ (with low-cut filters on mono channels); 2 AUX sends; 2 stereo AUX returns; steel casing.
  - **MX602A**
    - The MX602A incorporates Behringer's high-quality design in a smaller mixer for remote applications. It offers 2 mono and 2 stereo channels, 3-band EQ and more – all in a unit weighing no more than 3 lbs.
    - MR. List $179.00
    - *ONLY $149.00*
  - **MX802A**
    - 8-channel audio mixer
    - MR. List $119.00
    - *ONLY $99.00*

**PPM SERIES**

Mackie has 6x tough, hit-the-road mixers with plenty of power (up to 1200 watts) to drive your C300i PA speakers. Choose from models with 6, 12, or 16 channels (all mono) up to 8 channels (6 mono, 2 stereo).

- **Features:**
  - 32-bit digital effects processor with 16 different effects and 2 controllable parameters per effect; input gain control; twin power amplifiers; inserts on channels 1-6; 3-band EQ on each channel; phantom power and more.

**CFX SERIES**

Available in affordable 12- and 16-channel models, these CFX mixers with built-in effects modules make great PA system mixers. Just add powered speakers (like the SRM450 shown at right). Features:

- 16 channels (12 mic/line mono and 2 stereo line) or 12 channels (8 mic/line and 2 stereo line); 16 digital effects with 32-bit internal EMAC processing; 9-band graphic program equalizer; trim control with 50 dB of gain for low-output mic; 430 dB of line-level gain and a full 15 dB of attenuation to "pad" hot signals; inserts on all mic channels and mains; Aux Sends, external and internal EFX Sends; 12kHz shelving high-frequency EQ; 80Hz shelving low-frequency EQ; Pre-Fader Solo switch lets you monitor the channel via headphones; subgroup bus; "collect" channel signals assigned to them so you can submix vocals, instruments, etc.; tape level control; unbalanced RCA I/O; balanced/unbalanced 1/4" TRS and balanced XLR outputs for mains; headphone jack; subwoofer output from built-in 18dB/oct. 75Hz crossover; extra utility outputs with their own level control/stereo chassis.

**SRM450s** are powerful PA speakers. Active sound reinforcement brings truckloads of power to any event.

- **Features:**
  - 2-way design (12" LF, 1.75" HF); bi-amplification (300 watts/150 watts); built-in precision 24 dB/oct. HF); bi-amplification (300 watts/150 watts); 1.75" HF) allowing for tonal adjustment; two aux send controls (one pre-fader and one post-fader) may be used for monitor returns or setting up the routing scheme for effects processing; individual insert points on each channel; headphone jack; 48-volt phantom power; balanced XLR and TRS I/Os.
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**Production Mixers**

**BEHRINGER**

**MX1804X**

In the MX1804X, Behringer took their renowned VIRTUALIZER effects processor, using the same 24-bit processor and algorithms, and fit them into a 14-channel production mixer. This gives you 32 presets with excellent room simulations based on virtual acoustics plus various modulation effects. **Features:** 10 channel strips and faders; 6 mono inputs and 4 stereo inputs; 6 mic preamps; 2+2 subgroups; 3-band EQ (mono channels); 4-band EQ (stereo channels); 7-band graphic EQ; 2 AUX sends; 2 AUX stereo returns.

**BEHRINGER**

**MX2004A**

The MX:2004 is a super affordable mixing console for professional audio applications. And it's definitely not stripped down. It offers 20 total inputs (with AUX returns); 3-band EQs with semi-parametric mids in the mic channels; 4-band EQ in the stereo channels and two aux paths, one of them pre/post switchable per channel; peak/mute/solo LEDs and ALT 3-4 bus with faders.

**BEHRINGER**

**MX2442A**

Ultra-low noise mic preamps, based on conjugate-pair high-current transistors, are one of the main reasons the MX2442A gives your production such fabulous audio quality. Add extreme bandwidth (5 Hz to 100 kHz) and you get massive gain reserves as well as an excellent S/N ratio at all gain settings. **Features:** 20 channel strips; 16 mono inputs with mic preamps; 4 stereo inputs; 4 subgroups; 3-band EQ (mono channels); 4-band EQ (stereo channels); 6 AUX sends; 2 AUX stereo returns; 16 channel inserts; internal talkback mic.

**MACKIE**

**CFX SERIES**

Now you can have a Mackie-quality console with the convenience of built-in effects. Mackie's CFX Series 'effects' mixers meet the most stringent standards for sound quality, low noise and high headroom. Mackie's own digital engineering staff contributed sophisticated EMAC 32-bit digital effects that are the equal of name brand outboard processors. Available in 12-, 16- and 20-channel designs, these CFX mixers make your production tasks easier and eliminates lugging around additional effects processors. **Features:** 20 channels (16 mic/line mono and 2 stereo line), 16 channels (12 mic/line mono and 2 stereo line) or 12 channels (8 mic/line and 2 stereo line); 16 digital effects with 32-bit internal EMAC processing; 9-band stereo graphic program equalizer; trim control with 50 dB of mic gain (for low-output mic; +30 dB of line level gain and a full 15dB of attenuation to "pad" hot signals); inserts on all mic channels and mains; AUX Sends, switchable to pre-fader for monitor use; external and internal EFX Sends; subgroup buses "collect" channel signals assigned to them so you can submix vocals, instruments, etc.; RCA-type unbalanced tape/CD inputs and tape outputs; balanced/unbalanced 1/4" TRS and balanced XLR outputs for mains; headphone jack with level control.

**MACKIE**

**1202VLZPRO/1402VLZPRO**

These 12- and 14-channel mixers are excellent broadcast production solutions. Excellent microphone preamps deliver even lower noise and higher headroom than Mackie's previous design. The 12-channel 1202VLZPRO is perfect for remotes and includes 4 extended dynamic range preamps, 8 high-headroom line inputs, phantom power, advanced DC pulse transformer RF rejection, 3-band EQ and more. The incredibly popular 1402VLZPRO offers 6 mic-pres, 4 stereo line inputs, easy-to-control 60mm linear faders, separate ALT/cue bus, headphone matrix and more.

**MACKIE**

**1642VLZPRO/1604VLZPRO**

This Mackie mixer offers a perfect combination of mic and line level inputs. The 1642VLZ PRO has 16 total channels (8 mic/line plus 2 stereo mic/line plus 2 stereo line); **Features:** 10 ultra-low noise, high headroom mic preamps; 48V phantom power; 8 TRS channel inserts; 60mm log-taper faders; 4 AUX sends, level, pan -20 dB and OL LEDs on each channel; 3-band EQ with selectable midrange on mono channels, 4-band EQ on stereo channels.

*Non-inventory item subject to return restrictions.*
If you’re serious about your creative product, your equipment list should start with a really good mixer like our VLZ® PRO Series. The industry standard for compact mic/line mixers, they’re used day-in and day-out by more professionals to create more albums, demos, movie and broadcast sound tracks, commercials and web casts than any other brand.

**XDR. The finest microphone preamp design ever built into a compact mixer.**

Because the preamps in mixers have long been considered a poor second to $1000 to $2000-per-channel outboard preamps, Greg and our Analog Engineering Department spent two years of meticulous experimentation creating a sonically comparable mic preamp circuit.

According to numerous cynical recording engineers, magazine reviewers and a lot of satisfied owners, we succeeded. One reason is the advanced 2068 op-amp that is a foundation of the XDR design. It blows away our competitors’ op-amps in terms of noise and distortion.

Consider these real, measurable XDR™ (Extended Dynamic Range) microphone preamp specs:

- 0.0007% CCIF Total Harmonic Distortion
- 0.0008% CCIF Intermodulation Distortion
- 130dB total dynamic range to handle hot digital sources
- 3Hz to 192kHz bandwidth
- Ultra-low mic E.I.N. at practical gain levels

**The VLZ PRO Compact Mixer Series:**

- Premium XDR mic preamps and VLZ circuitry for ultra-low noise
- New high-performance 2068 op-amps
- Musical, sweet-sounding equalization at useful, logical frequencies
- Sharp 18dB/octave Low Cut filters
- Stereo In-Place Solo
- Easy channel level setting via Solo
- Constant Loudness pan pots
- Inserts on all mono mic/line channels
- 60mm long-wearing, logarithmic-taper faders (except 1202-VLZ PRO)
- Sealed rotary controls
- Thick MIL-spec fiberglass circuit boards
- Built-in high-current power supplies
- Steel chassis
- Easy-to-understand manuals
- Best Technical Support in the industry

Call your nearest Mackie office for a 72-page brochure/quick guide that explains the VLZ PRO line in excruciating detail. Or log on to our web site. Then call BSW to decide which VLZ PRO model best meets your creative needs.
When you sit down at a Digital 8Bus, you'll feel as well as hear a difference. Because the D8B is a mid-sized digital console designed by large-console automation specialists, it's as intuitive and easy to use as an analog console. Its software was created by seasoned recording engineers with years of hands-on experience using every major automated console design. Now, with 3.0 software, 3rd-party plug-ins and a matching hard disk recorder, the D8B has truly come into its own as the accepted pro audio industry production platform. New 3.0 Features: third-party plug-ins via the Mackie UFX card; enhanced dynamics; input keying and EQ filter; soft knee compression toggle; linear and exponential option; 48-channel overview screen; 999 levels of Un-Do; 24-bit Alt I/O; advanced Mx Editor features including new view-sizing arrows; auto-punch; auto-loop SMPTE time code boxes; loop-In/loop-out, Punch In, Punch Out and Locate markers in the time bar; Event Automation Track; Enhanced Surround Sound mixing environment with depth of center control; surround LFE Gain Control for each channel; surround-corrected bus/track assignment; surround Front-to-Rear Pan Control via control surface or MIDI; surround GUI update; new 72-channel overview; drag and drop file management between file windows; enhanced, flexibly MIDI I/O mapping for all channel strip parameters and/or effects modules; insert and patch point feature on channels - source either plug-ins, 8 aux sends, 8 buses or 72 channels (pre-DSP only); 24-bit plug-in inserts across Main UR buses; time offset (delay) on each channel 1-48 with 255 samples; multiple direct outs per channel; MMC Auto Punch mode; snapshot library; Pre/Post assignment of each aux send on each channel; improved RTB resolution and clocking accuracy; much more. Call BSW today to get the full details on Mackie Digital consoles.

MACKIE

8 BUS SERIES

Mackie's 8Bus series is proof that a high-quality, full-featured console for multitrack recording doesn't have to cost a fortune. Available in 16-, 24-, and 32-channel versions, these consoles are a combination of high-quality components, innovative design and incredible features, giving excellent value for your dollar. Features: 100 mm precision network faders; separate tape monitor path; A & B mix paths; 6 AUX sends and returns; 4-band EQ (Hi and Low shelving; Hi mid-sweep and Low mid-sweep); solo/channel metering, 2 headphone mixes; studio/control speaker mixes; talkback with built-in mic; balanced XLR mic and TRS line inputs; balanced XLR main outputs; balanced TRS sub-outputs. Options: meter bridges (MB16, MB24, MB32). Dimensions: (16-B) 29.2"W; (24-B) 37.7"W; (32-B) 45.8"W x 28.8"D x 4.8"H w/o meter; 9"1-I w/meter.

MACKIE

32-4VLZPRO/24-4VLZPRO

Mackie's upgraded 32-channel console offers quality and durability in a flexible 4-bus format that is suitable for both recording and broadcast applications. Mackie's new XDR (extended dynamic range) mic preamps are designed to compete with outboard preamps costing hundreds of dollars each. You'll notice the highly-focused high end. The superior ambience retrieval. The substantial, detailed lower bass octaves. And hear textural midrange details you never knew your microphone could reproduce. And hear detailed midrange details you never knew your microphone could reproduce. Features: long-taper 60mm faders; 3-band EQ with sweepable mids on all inputs; low-cut input filter; ultra-high frequency EQ enhancer on subgroups; 6 AUX sends; 4 can be pre- or post-fader; pre- and post-fader listen (cue); flexible control room and tape monitoring; talkback facilities; rigid steel chassis; balanced analog mic and line inputs (XLR and TRS); balanced TRS AUX outputs; balanced TRS and XLR main stereo outputs. The 24-4VLZPRO is an affordable 24-channel console.

MFR. LIST

<table>
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<tr>
<th>Model</th>
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<tr>
<td>MB32</td>
<td>$899.00</td>
<td>ONLY $699.00</td>
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</tbody>
</table>

*Non-Inventory item subject to return restrictions.
### SOUND CRAFT

#### SPIRIT M SERIES

The Soundcraft Spirit M Series is available in 4, 8 or 12 mono input channel frame sizes. In addition to the mono input channels, all three mixers include four stereo inputs and four stereo returns. All inputs, EQ, auxes, panning and level controls are presented clearly, saving you time when creating your mixes. High quality 100 mm faders combine with signal and peak LEDs on every channel and high resolution output metering places you in total control. The brushed steel side panels aren’t just beautiful, they can withstand a weight of 132 lbs. and are designed to leave the mixer with no sharp edges. Removing these panels reveals an integral back mounting system. Features: 4/8/12 mono inputs with 3-band EQ (swept mid); 4 dedicated level-controlled FX returns with master level control; 4 auxiliary sends - 2 pre-fade, 2 post-fade; pre-/post-fade switchable direct output on every mono input channel; signal detect and peak LEDs; 57 user presets; 4-band EQ with dedicated knobs (each band adjustable from 20 Hz to 20 kHz); mixdown of features and affordability. Features: 16 balanced inputs (8-XLR/TRS and 8-TRS only); a single stereo line input (TRS); a slot for optional I/O cards; internal automation system with motorized faders; snapshot; scene memory; 4-band parametric EQ; 4 bus outputs; 4 AUX sends; inserts on channels 1 & 2; built-in dynamics and effects processing; balanced XLR stereo outputs: AES/EBU and S/PDIF digital outputs. Dimensions: 18.1"W x 20.3"D x 8"H. Options: digital interface cards for DA-88, ADAT, AES/EBU and Yamaha formats. RW5427 8-channel, 4-bus digital audio console mixer Mfr. List $3,699.00 ONLY $3,144.00

#### SPIRIT FOLIO NOTEPAD/FOLIO POWERPAD

The smallest mixer available from Spirit, Folio Notepad combines DAT quality audio and versatile features. Features: mono mic/line inputs with high-gain, low-noise mic preamps, phantom power and 2-band EQ; 2 stereo line inputs equipped with switchable turntable preamps; post-fader AUX sends on each input channel; dedicated stereo effects return; 2-track return; peak and VU metering; separate main and monitor outputs; balanced XLR stereo outputs; AES/EBU and S/PDIF digital outputs. Dimensions: 9.6"W x 8.9"D x 2"H. Spirit’s Folio Powerpad adds a built-in, 2-channel 30 watt amplifier with overload and thermal protection. Dimensions: 8.7"W x 8.9"D x 4.5"H. RW5353 8-channel audio mixer Mfr. List $300.00 ONLY $254.00

#### YAMAHA

#### 02RV2

The 8-bus 02RV2 uses an "open system" for compatibility with all major industry-standard digital audio formats (TASCAM (TDIF-1), ADAT, AES/EBU, and Yamaha). It offers 24 analog channels, 8 output busses (analog/digital), 16 direct outputs, and 8 auxiliary sends for extraordinary signal processing power in remarkably compact dimensions. Features: 24-bit capability; various surround panning options; off-line copy-and-paste editing; timecode offset and timecode quick location; touch sense fader editing, which allows a fader to be instantly updated by simply moving it; MIDI remote and MIDI control assign; on-board MS stereo decoding; bus channel pairing, flexible routing assignment and fader grouping; 96 scene memories; 4-band parametric EQ; 8 bus outputs; 8 AUX Sends; 16 direct outputs; built-in dynamics and effects processing; balanced XLR stereo outputs: AES/EBU and S/PDIF digital outputs. Dimensions: 26"Wx27"Dx9"H. Options: expansion cards for an additional 16 digital inputs; MB02 meter bridge.

#### 01V

The 01V is an enormously powerful digital mixer featuring a wealth of signal routing, processing and mixing options. Features: 16 analog inputs (12 balanced with mic preamps and phantom power); 99-scene memory; two stereo multi-effects processors with the same DSP as the Yamaha ProR3 and REV500, and an effects library with 42 presets and 57 user presets; 4-band EQ with dedicated knobs (each band adjustable from 20 Hz to 20 kHz); MIDI thru/in/out; 4 assignable balanced TRS analog outputs, balanced XLR stereo outputs; digital coaxial I/O. Options: expansion cards for an additional 8 digital inputs or 8 assignable digital outputs for direct connection to multitrack recorders. RW5546 42-input, 8-bus digital audio console/mixer Mfr. List $4,999.95 ONLY $4,221.00

#### 03D

Based on the successful 02R, the 03D offers a balance of features and affordability. Features: 16 balanced inputs (8-XLR/TRS and 8-TRS only); a single stereo line input (TRS); a slot for optional I/O cards; internal automation system with motorized faders; snapshot; scene memory; 4-band parametric EQ; 4 bus outputs; 4 AUX sends; inserts on channels 1 & 2; built-in dynamics and effects processing; balanced XLR stereo outputs: AES/EBU and S/PDIF digital outputs. Dimensions: 18.1"W x 20.3"D x 8"H. Options: digital interface cards for DA-88, ADAT, AES/EBU and Yamaha formats. RW5645 16-channel, 4-bus digital audio mixer Mfr. List $6,699.00 ONLY $5,499.30

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**Non-inventory item subject to return restrictions.**
**Production Mixers**

**Yamaha MV12/6**
The new 7U rack-mountable MV12/6's 12-input channels are just right for smaller applications and 6 independently assignable output buses (4 group + stereo) deliver exceptional versatility. Features: all channels feature a 3-band EQ (high, mid, low), two auxiliary Sends (AUXX is switchable between pre- and post-fader modes), effect Send, bus switches for routing to group 1/2, group 3/4 and stereo outputs and a channel fader; 4 group and stereo buses; 7-band EQ and 16 digital effects; inputs 1-8 are all equipped with both XLR and Euro-block connectors for quick, easy and flexible connectivity; channels 1-8 are also equipped with individual phantom power; channels 9/10 and 11/12 are stereo input channels; insert I/O jacks supplied on channels 1-4; outputs are stereo out, group out 1-4, monitor and mono balanced outputs; individual input level controls; each input is separately assignable to the left, right, or both outputs; balanced stereo outputs will drive a 600 ohm load to +25 dBm; all connections via barrier strip terminals.

**SM-6**

The SM-6 is a 6-input stereo utility mixer equipped with 6 front panel push button type on/off switches. Audio connections appear on the rear panel via removable screw terminals. The SM-6 is equipped with 6 stereo active balanced inputs with 15 turn input trimmers and single turn output trimmers. Ampile gain is provided allowing use of unbalanced consumer level devices. It may also be configured for dual monoaural output operation.

**Broadcast Tools**

**CCIIA**

Here's the solution for interfacing non-broadcast consoles or digital workstations to the broadcast studio. Features: 3 channels of insert switching to turn on or off console input channels or other source equipment (i.e., mic preamps); LEDs on each channel may be programmed to flash when activated; monitor amplifier mute control (channel 3 may be programmed not to mute the monitors when activated); monitor level control; ability to switch between internal or external (program/off-air) monitor input sources.

<table>
<thead>
<tr>
<th>Model</th>
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<th>Price</th>
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</thead>
<tbody>
<tr>
<td>CCIIA</td>
<td>$316.00</td>
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</table>

**RANE MLM82A/SM26B**

This flexible MLM82A 8-channel mixer can handle a variety of input sources and applications. Features: 8 inputs (4 balanced mono Mic/line with XLR connectors, 4 stereo/mono line inputs with 1/4" TRS connectors); mic inputs have switchable phantom power; 2 XLR outputs switchable to mic level, line level or mono.

<table>
<thead>
<tr>
<th>Model</th>
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**Utility Mixers**

**Henry Engineering Stereomixer**

Henry Engineering builds many of your favorite interface tools. The Stereomixer is no exception. Features: 8 line level inputs (4 stereo or 8 mono); bridging inputs which accept a balanced or unbalanced source; stereo and mono balanced outputs; individual input level adjustment; L/R bus input for linking multiple units; 115/230 VAC, 50/60 Hz; all connections via barrier strip terminals.

<table>
<thead>
<tr>
<th>Model</th>
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<tr>
<td>Stereomixer</td>
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**Henry Engineering Micromixer**

Micromixer is a four-input, two-out stereo utility mixer. Features: balanced and bridging inputs; individual input level controls; each input is separately assignable to the left, right, or both outputs; balanced stereo outputs will drive a 600 ohm load to +25 dBm; all connections via barrier strip terminals.

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**Broadcast Tools**

**RDL STICK-ON SERIES MIXERS**

Radio Design Labs' Stick-Ons™ are compact, high-quality audio interface devices that can be directly and discreetly mounted on equipment, under counter tops, or combined in rack mount systems. ST-MX3 provides audio mixing of 3 mic inputs with individual input gain adjustments. Line level output. ST-MX3 provides audio mixing of three line level inputs with individual gain adjustments. ST-MXXL3 is a 3-channel audio mixer used for combining three line level signals to a single microphone level output. All four models require 24-volt power supply (PS24A sold separately).

<table>
<thead>
<tr>
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**Henry Engineering**

**New!**

**Popular Utility Mixers from Henry Engineering**

**Henry Engineering Stereomixer**

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**Henry Engineering Micromixer**

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**Broadcast Tools**

**RDL RU-MX5**

This compact, 5-channel mixer is only 1/3 rack space wide. Features: five balanced/unbalanced main inputs (4-mic/line, 1-line only); a mix input for combining multiple mixers; balanced mic or line input; LED level indicators (-20, 0, +5); phantom power ( jumper selectable); connections via barrier strip.

<table>
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<tr>
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<tbody>
<tr>
<td>RUMX5</td>
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**Henry Engineering**

**Micromixer**

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BSW stocks a huge warehouse of products. If we have it in stock, we will ship it the same day. Just call us by 5:00 pm Eastern Standard Time.

* Applies to domestic customers with approved credit.

* Non-inventory item subject to return restrictions.
**ARRAKIS 12,000 SERIES**

The modular 12,000-series console features a "universal bus" design that allows any type of module to be placed in any position in the mainframe. **Features:**

- Two inputs per channel: built-in timer; extensive metering facilities; three stereo outputs (program, audition, and utility); two telephone mix-minus buses; Penny and Giles faders; gold board connectors; much more. Some of the optional modules available include: machine control; source/monitor selectors; D/A.

The popular Arrakis 12K1812 is an 18-channel mainframe preconfigured with 2 mono mic modules, 10 stereo line modules, output module and monitor/talkback module. This console also has room for up to 6 additional modules so you can customize in the future. 12K86 is an 8-channel mainframe loaded with 6 channels. The 12K1818 is the 18-channel mainframe fully loaded with 18 channels.

- **12K1812**
  - 12-channel modular audio console
  - Mfr. List $7,075.00
  - ONLY $6,739.00

- **12K86**
  - 6-channel modular audio console
  - Mfr. List $4,350.00
  - ONLY $4,143.00

- **12K1818**
  - 18-channel modular audio console
  - Mfr. List $8,755.00
  - ONLY $8,339.00

**ARRAKIS REV12C/REV18X**

Both analog and digital at the same time, the REVOLUTION is the amazing radio console at home in both analog and digital studios alike. With greater features, reliability and performance than a traditional console, the time has come for your station to go digital. The REVOLUTION's advanced, modular two-piece design is made up of a rack-mounted digital audio engine and a control console board. The digital engine can be located away from the console operator or even in a remote rack room, simplifying installation, wiring and service. The control console is also modular, making it quick and easy to replace worn faders or to expand the system. **Features:**

- 12 and 18 channel mainframes; 3 stereo output buses and 2 telephone buses; full monitoring for control room and studio; both analog and digital operation; any PC computer can back up the console control system.

The REV12C includes a digital engine plus a 12-channel control interface. The newer REV18X includes the digital engine plus a larger 18-channel control interface.

- **REV12C**
  - Digital engine w/ 12-channel controller
  - Mfr. List $7,495.00
  - ONLY $7,139.00

- **REV18X**
  - Digital engine w/ 18-channel controller
  - Mfr. List $8,995.00
  - ONLY $8,567.00

**ARRAKIS REV12P**

This 12-channel REVOLUTION digital console from Arrakis is a breakthrough in features, performance and price. The system's two-piece design is made up of a rack-mounted digital engine and your own PC computer for control! **Features:**

- Full-featured, 12-channel console with a large, easy-to-use touchscreen monitor. Call today to talk with our knowledgeable sales staff about going completely digital – affordably.

- **REV12P**
  - 12-channel digital engine, PC control software
  - Mfr. List $3,995.00
  - ONLY $3,805.00

* Non-inventory item subject to return restrictions.
The R-17 offers high-quality mixing with all the necessary features of a full-sized on-air board in a compact package. Standard configurations come with 2 mix input modules and either 4 or 8 stereo line input modules, master output and control room modules as well as a blank slot that can be loaded with an optional tape remote module. Features: modular construction; program, audition and cue buses; illuminated machine start/stop switches; built-in cue speaker; studio talkback; gold audio switches; gold edgecard connectors; conductive plastic faders and monitor pots; external rack buttons; color faders. Dimensions: 21”W x 17”D x 6.8”H.

R17-10
10-channel audio console
Mfr. List $4,355.00
ONLY $3,843.00

R17-6
6-channel audio console
Mfr. List $3,044.00
ONLY $2,686.00

The R-5 is a quality Audioarts console in a cost-effective, fixed-position configuration. Features: 13 channels (2 mic, 10 stereo line, 1 telephone); 4 high-quality mic preamps; 2 inputs per channel; illuminated switches throughout; Simple Phone™ telephone channel and mix-minus out; Sifam stereo VU meters for Program and Audition; channel on/off switches with full machine control logic and programmable monitor muting; remote control of channel on/off, six-source stereo line selector; studio control with talkback; S-source control room monitor selector (PGM, AUD, TEL, EXT1, EXT2); built-in digital timer with start/stop, reset and hold controls; tape machine remote control section; built-in cue speaker and amp; slim profile surface mount chassis. Dimensions: 31.4”W x 21.5”D x 6.8”H.

R-5
12-channel audio console
Mfr. List $4,995.00
ONLY $4,496.00

The digital Audioarts D-70 simply offers greater performance for less. All input modules on the D-70 feature A/B switching and all digital inputs have standard sample rate conversion. When you order, choose from any combination of microphone, analog stereo and digital stereo inputs. 4 stereo busses give you plenty of flexibility (each has both digital and analog outputs). There are control room and studio monitor modules with separate source-select and studio talkback. A dual-caller phone section has a DSP-generated mix-minus and separate record outputs. The console also features a digital timer, console clock with ESE timecode input, full-scale direct digital peak metering (with simultaneous dual-ballistic VU display); 4 blank slots for future expansion and opto-isolated logic ports for all input module positions. Call BSW today to order.

D7012
12-channel digital audio console
Mfr. List $9,624.00
ONLY $8,953.00

D7020
20-channel digital audio console
Mfr. List $12,039.00
ONLY $11,199.00

The digital Audioarts D-70 offers greater performance for less. All input modules on the D-70 feature A/B switching and all digital inputs have standard sample rate conversion. When you order, choose from any combination of microphone, analog stereo and digital stereo inputs. 4 stereo busses give you plenty of flexibility (each has both digital and analog outputs). There are control room and studio monitor modules with separate source-select and studio talkback. A dual-caller phone section has a DSP-generated mix-minus and separate record outputs. The console also features a digital timer, console clock with ESE timecode input, full-scale direct digital peak metering (with simultaneous dual-ballistic VU display); 4 blank slots for future expansion and opto-isolated logic ports for all input module positions. Call BSW today to order.

RD2020
20-channel digital audio console
Mfr. List $18,380.00
ONLY $17,098.00

RD2016
16-channel digital audio console
Mfr. List $16,200.00
ONLY $15,070.00

Make a smooth transition into the digital realm with the Audioarts RD20 console. With the power of 32-bit floating point digital signal processing, this console is the flexible control center for today’s digital and analog studios. It accepts both analog and digital input signals, processes them entirely in the digital domain and then provides output signals in both digital and analog formats! With the RD20, your present analog equipment isn’t made obsolete, and the console can easily accommodate future digital equipment so your transition to digital can be orderly. Call for more information today.

RD2020
20-channel digital audio console
Mfr. List $18,380.00
ONLY $17,098.00

RD2016
16-channel digital audio console
Mfr. List $16,200.00
ONLY $15,070.00

* Non-inventory item subject to return restrictions.

Consoles

800-426-8434
www.bswusa.com
AUTOGRAM PACEMAKER SERIES

Pacemaker consoles are affordable and versatile consoles for radio. The Pacemaker 648 features 8 inputs per channel (48 inputs total). On the 618, channels 1-5 have dual inputs; channel 6 has 8 inputs. The 828 has 28 stereo inputs; the 1032 has 32 stereo inputs (both the 828 and 1032 have 2 inputs per channel and 2 banks of remote selectors). Features: VCA level controls; no audio output boards; monitor output board; VCA level controls; mix-minus bus; Penny and Giles faders; pluggable miniature terminal strips.

*618 6-channel, 18-input audio console
   Mfr. List $5,221.00 ONLY $4,786.00

*648 6-channel, 48-input audio console
   Mfr. List $6,790.00 ONLY $6,225.00

*828 8-channel, 28-input audio console
   Mfr. List $6,515.00 ONLY $5,973.00

*1032 10-channel, 32-input audio console
   Mfr. List $7,727.00 ONLY $7,084.00

DIXON

NM250

The Dixon Systems NM-250 mixer is designed for busy newswroom work stations and contains almost all the features of a full broadcast console in a two-rack-space unit. To achieve the best performance possible, low noise 1% metal-film resistors are used throughout the audio path. Features: 2 mic inputs with on/off switch and 48-volt phantom power; monitor output mutes when mic is on; mono line input for telephone hybrid; input for computer sound card; front panel input for DAT/cassette recorder; 2 balanced +4 line inputs; built-in mix-minus bus for telephone hybrid; built-in talkback system with 2 sends and receives; relay closures for computer channel on, telephone channel on and mic on; LED VU meter display; built-in headphone amp lets you select Mixer (program), Cue or Off-Air; balanced +4 XLR line, mic and phone inputs; unbalanced -10 RCA I/Os for computer workstation/soundcard interface; all outputs except computer I/O are via pluggable terminal connectors and are balanced +4.

*NM250 8-channel, 18-input audio console
   Mfr. List $1,955.00 ONLY $998.00

![Newsnroom Mixer]

AUTOGRAM PACEMAKER II SERIES

The Autogram Pacemaker II series consoles offer an incredible amount of flexibility without an enormous price tag. Choose from either the 18-channel or 28-channel mainframe with your choice of the number of dual input modules and up to two 8-line selector modules. The 18-channel mainframe features four VU meters but two are switchable; the 28-channel mainframe has six. Standard items for both include: autoclock; 4 mic preamps; two audio output boards; monitor output board; VCA level controls; mix-minus bus; Penny and Giles faders; pluggable miniature terminal strips (RCA and XLR panels optional).

*PM218-12 12-channel audio console
   Mfr. List $8,252.00 ONLY $7,565.00

*PM228-22 22-channel audio console
   Mfr. List $11,913.00 ONLY $10,921.00

**MINIMIX12A/MINIMIX8A

Mini-Mix 12A Features: flexible input configuration to interface any piece of pro or consumer audio equipment; 12 slide pots host a total of 25 stereo inputs (15 balanced pro level, 10 unbalanced consumer level); first 2 channels are dedicated mic level. Dimensions: 27.25"W x 15.5"D x 4.75"H.

*MINIMIX12A 12-channel audio console
   Mfr. List $3,499.00 ONLY $3,208.00

*MINIMIX8A 8-channel audio console
   Mfr. List $2,499.00 ONLY $2,291.00

LPB/DYNAMAX MX/D SERIES

The MX/D lets you experience the benefits of a completely digital signal path without losing the familiarity of operating an analog on-air console. Features: 8 mixer channels controlling 16 inputs; choose any combination of analog or digital input modules; analog modules provide 18-bit A/D conversion from XLR connectors; mic preamp standard with all analog input modules; digital input modules have AES/EBU connectors (accepts 5/PDIF format) and provide sample rate conversion; A/B input select with LED indicator; 3 digital plus 3 analog outputs; 48 kHz digital out standard (optional 44.1 kHz or 32 kHz); LED lighted bus assignment switches for Program, Audition, Mono and Cue; Cue activated via fader detent and momentary cue switch; LED metering for PGM, AUD and mono buses; count-up event timer; built-in cue amp and speaker; independent A/B remote start and stop; excellent RF immunity; remote channel on/off; Lexan overlay on all control surfaces. Dimensions: 25.75"W x 23"D x 9.25"H.

*MXDF 8-channel audio console mainframe
   Mfr. List $6,500.00 ONLY $5,796.00

*IM-A analog input module
   Mfr. List $300.00

*IM-D digital input module
   Mfr. List $275.00 ONLY $245.00

**FIDELIPAC/DYNAMAX Consoles Now Available from LPB

LBP/DYNAMAX MX SERIES

True modularity, superior flexibility and low cost give Fidelipac's MX series consoles real value for the dollar. MXA models are compact and perfect where space is limited. MXL consoles have linear faders mounted three inches apart. MXE consoles have linear faders mounted two inches apart. MXF consoles have linear faders mounted one inch apart. Features: true modular design; superior flexibility; low cost; modular design; two inputs per module; mic/channel or line/channel (line inputs may be mono or stereo, consumer or professional format); fully monitored/cueing facilities with VCA mixer and monitor control; four assignable outputs - two stereo plus two mono; remote start logic; built-in cue amp/speaker and headphone amp; steel construction; excellent RF immunity; virtually indestructible control surfaces.

*MX10L 10 channels
   Mfr. List $5,195.00 ONLY $4,688.00

*MX12E 12 channels
   Mfr. List $5,495.00 ONLY $4,959.00

*MX14E 14 channels
   Mfr. List $6,595.00 ONLY $5,880.00

*MX16E 16 channels
   Mfr. List $7,695.00 ONLY $6,313.00

*MX18E 18 channels
   Mfr. List $7,795.00 ONLY $6,674.00
Logitek takes the guesswork out of going digital. We start with the Logitek Digital Audio Engine, a centralized point for all audio inputs and outputs at your facility (analog and digital). The Audio Engine performs routing, mixing and equipment control functions. Multiple engines may be networked for maximum flexibility.

Next, you have your choice of several versatile console control surfaces. The ROC-10 (shown here) gives you ten fully assignable faders. Other choices include the modular Numix, with a range of 6 to 24 faders, the compact ROC-5 or our Vmix "virtual" PC-based control surface. Up to three control surfaces may be run from one Audio Engine.

Whether you have a single station or a huge networked operation, Logitek Digital Consoles can provide the flexibility and functionality you need. Call BSW today for more information. Logitek... Digital With A Better Difference!

LOGITEK ROC SERIES

The Logitek ROC Series digital consoles are comprised of the AE32 Audio Engine, which includes all of the audio and I/O, and either 10-fader or 5-fader control surfaces. Up to two control surfaces can be used with each Audio Engine. These control surfaces are ergonomically designed with fully assignable faders, giving you easy access to any of the inputs and outputs housed in the Audio Engine and eliminating the need for a separate audio switcher. LCD displays above each fader show audio sources and their destinations to quickly identify routing paths. The 10-fader version (ROC10) has four VU and Peak LED meters; the 5-fader version (ROCS) has two meters. Combinations of Logitek's two basic I/O cards determine how many channels your console will have. The Digital I/O card (I08D) has 8 stereo/16 mono AES or S/PDIF inputs and outputs using DB25 connectors. The Analog card (I024A) has 6 stereo/12 mono inputs using DB25 connectors. The Audio Engine can accommodate up to 8 cards in any mix of analog and digital.

BSW's packages below consist of 1 control surface, 1 AE32 Audio Engine, 1 Lone SHARC DSP, power supply, and the specified number of audio cards in any mix of digital & analog.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Mfr. List</th>
<th>CALL FOR PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>ROC1016</td>
<td>10-fader console with 2 audio cards (up to 16 I/O)</td>
<td>$11,977.00</td>
<td></td>
</tr>
<tr>
<td>ROC1024</td>
<td>10-fader console with 3 audio cards (up to 24 I/O)</td>
<td>$13,476.00</td>
<td></td>
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<tr>
<td>ROC1032</td>
<td>10-fader console with 4 audio cards (up to 32 I/O)</td>
<td>$14,975.00</td>
<td></td>
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<tr>
<td>ROC516</td>
<td>5-fader console with 4 audio cards (up to 16 I/O)</td>
<td>$9,977.00</td>
<td>CALL FOR PRICE</td>
</tr>
<tr>
<td>ROC524</td>
<td>5-fader console with 4 audio cards (up to 24 I/O)</td>
<td>$11,476.00</td>
<td>CALL FOR PRICE</td>
</tr>
<tr>
<td>ROC532</td>
<td>5-fader console with 4 audio cards (up to 32 I/O)</td>
<td>$12,975.00</td>
<td>CALL FOR PRICE</td>
</tr>
</tbody>
</table>

*Non-inventory item subject to return restrictions.*
LOGITEK
NUMIX PACKAGE

Logitek’s Numix digital console is a modular system made up of the AE32 Audio Engine and unique control surface wedges. It’s ergonomic shape gives your studio a modern, open, low-profile look. The control surface consists of a selector wedge and one or more fader wedges as needed. Since the control surface is programmable, faders can access any and every input or output on the Audio Engine. Stored setups can be created which will allow each operator or day part to have a different configuration. You can even have multiple control surfaces connected to one Audio Engine. These surfaces can run independent studios or act as one large split console for talent and producer-type shows. The Numix connects to the Audio Engine with a single cable which makes installation a snap. Combinations of Logitek’s two basic I/O cards determine how many channels your console will have. The Digital I/O card (IO24I) has 8 stereo/16 mono AES or S/PDIF inputs and outputs using DB25 connectors. The Analog card (IO24A) has 6 stereo/12 mono inputs using DB25 connectors. The Audio Engine can accommodate up to 8 cards in any mix of analog and digital.

BSW’s packages below consist of 1 Audio Engine, 1 Lone SHARC DSP, power supply, combinations of Logitek’s two basic I/O cards, and Logitek’s unique control surface wedges. It’s ergonomic shape gives your studio a modern, open, low-profile look. The control surface consists of a selector wedge and one or more fader wedges as needed. Since the control surface is programmable, faders can access any and every input or output on the Audio Engine. Stored setups can be created which will allow each operator or day part to have a different configuration. You can even have multiple control surfaces connected to one Audio Engine. These surfaces can run independent studios or act as one large split console for talent and producer-type shows. The Numix connects to the Audio Engine with a single cable which makes installation a snap. Combinations of Logitek’s two basic I/O cards determine how many channels your console will have. The Digital I/O card (IO24I) has 8 stereo/16 mono AES or S/PDIF inputs and outputs using DB25 connectors. The Analog card (IO24A) has 6 stereo/12 mono inputs using DB25 connectors. The Audio Engine can accommodate up to 8 cards in any mix of analog and digital.

NUMIX1224  digital console with 3 audio cards (up to 24 I/O)
  Mfr. List $19,257.00  CALL FOR PRICE

NUMIX1232  digital console with 4 audio cards (up to 32 I/O)
  Mfr. List $20,756.00  CALL FOR PRICE

NUMIX1248  digital console with 6 audio cards (up to 48 I/O)
  Mfr. List $26,904.00  CALL FOR PRICE

CRL
MILLENNIUM

The Millennium digital audio processor from Circuit Research Labs marks the beginning of a whole new generation of audio processing technology. The sound is clear and real loud. The Millennium is based on a 32-bit floating point DSP processor. It has a straightforward touch screen and graphical user interface that allows you to create your own unique sound identity - setting your station apart from the crowd. There's also a legion of factory presets from which to choose. Features: the Millennium includes a true digital stereo multiplex generator, AGC, five-band compressor, stereo multiplex generator, AGC, five-band compressor, multi-band limiter; remote control software that makes adjustments fast and easy; 100% floating point digital signal processing; 256 kHz final limiter sample rate; it accepts analog and AES/EBU digital I/O, AES/EBU digital I/O.

MILLENNIUM  digital audio processor
  Mfr. List $8,795.00  ONLY $8,278.00

CRL
TVS3003

The TVS 3003 combines advanced audio AGC and limiting with a state-of-the-art digitally synthesized MTS generator. It provides a single package stand-alone stereo television audio system. Through the use of time-tested circuit technology and innovative packaging, the TVS-3003 lets you convert to stereo quickly and easily. In addition, it includes a long list of "must have" features that will make your station's audio quality stand out. Talk to our sales professionals today.

TVS3003  MTS stereo generator/AGC
  Mfr. List $6,795.00  ONLY $6,278.00
**Audio Processing**

**CRL AMIGO SERIES**

The Amigo FM is a complete stereo audio processing system – both flexible and powerful. Yet, the Amigo is designed for quick and easy set up. Simply set your input level, then your modulation level and you’re on the air. Plus, the Amigo has easy to understand processing controls to customize your station’s sound. A wide range dual band AGC ensures consistent station loudness, by automatically monitoring and adjusting your audio levels. Powerful multi-band limiting system gives your station a natural sound with superior loudness while maintaining outstanding quality. The Amigo’s digitally synthesized multiplex generator provides a flawless, maintenance free stereo signal. CRL’s exclusive stereo sound enhancement provides additional stereo separation to make your station stand out from the competition.

The Amigo AM is a complete audio processing system for C-QUAM AM stereo. CRL has taken all its best technology and combined it into one high performance unit. A wide range dual band AGC ensures consistent station loudness, by automatically monitoring and adjusting your audio levels. Three band matrix limiter maximizes your station’s coverage area and loudness, for both your stereo and mono listeners. Exclusive stereo sound enhancement provides additional stereo separation to make your station stand out from the competition. The Amigo AM also includes an extra mono output for your standby transmitter. Full NRSC-1 compliance.

The Amigo TV is an advanced dual-band audio AGC and limiter. It automatically monitors and adjusts audio levels, ensuring consistent loudness across all programs as well as a clear, natural sound. Call for more information today.

**INOVONICS**

**235**

The Inovonics 235 triband AM broadcast audio processor is available in various versions with different audio bandwidths. Features: fully NRSC-compliant and AMAX-certified; slow gain-ratating, gated-AGC erases long-term input level variations; 3-band compressor/equalizer optimizes program spectral density; peak controller has adjustable clipping depth to maximize carrier modulation; RS-232 allows full remote control.

**235-00** AM audio processor Mfr. List $1,800.00 ONLY $1,611.00

**INOVONICS**

**222**

Designed for AM broadcasting, the 222 can act as a stand-alone processor, or interface with existing processing to provide an NRSC-compliant signal. Features: adaptive pre-emphasis to enhance signal intelligibility and presence; sharp cut-off to eliminate adjacent channel interference; built-in peak limiter; feed-forward pulse width modulation (PWM) control.

**22200** NRSC update box Mfr. List $720.00 ONLY $645.00

**INOVONICS**

**DAVID II**

The DAVID II integrates FM audio processing and stereo generation into a single, easy-to-use affordable package. It lets you achieve an aggressive sound that is fully protected from overmodulation without sacrificing ease of setup. Features: digital synthesis of the composite multiplex signal; feed-forward pulse width modulation (PWM); built-in composite processor to maximize modulation density; unique bass-enhanced feature (suppresses subaudible program components while augmenting legitimate bottom-end); internal combining for SCA and RDS subcarriers.

**71600** FM audio processor/stereo generator Mfr. List $2,000.00 ONLY $1,790.00

**INOVONICS**

**708**

The 708-00 provides cost-effective stereo generation for audio processors that don’t have a stereo generator built in. Features: digital synthesis of the stereo pilot and MPX signals; front-panel metering; patented overshoot compensation with an adjustable pre-pilot composite clipper; adjustable composite equalization; internal combining for SCA and RDS subcarriers.

**CP803**

Keep your FM station loud, clean and legal by adding the CP803 to your compressor/limiter/stereo generator to enhance the stereo composite signal. Increase your signal by 6 dB with greater dynamic range without the breathing, pumping or swishing associated with conventional processing. The composite processor also eliminates peaks of overmodulation and limits composite signal without affecting stereo pilot. BNC composite I/O.

**MODULATION SCIENCES**

**SCA186 SIDEKICK**

All you need for SCA in a single chassis, the SCA186 contains subcarrier generator, audio processing; peak holding deviation meter, noise generator and incidental AM noise meter to optimize transmittter tuning for minimum cross talk. Specify 67 kHz or 92 kHz subcarrier when ordering. Inputs/Outputs: balanced screw barrier inputs; BNC composite input; BNC telemetry input; BNC RF input; BNC composite output; BNC SCA output.

**DAVID II**

The DAVID II integrates FM audio processing and stereo generation into a single, easy-to-use affordable package. It lets you achieve an aggressive sound that is fully protected from overmodulation without sacrificing ease of setup. Features: digital synthesis of the composite multiplex signal; feed-forward pulse width modulation (PWM); built-in composite processor to maximize modulation density; unique bass-enhanced feature (suppresses subaudible program components while augmenting legitimate bottom-end); internal combining for SCA and RDS subcarriers.

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**CRL Amigo Series**

**AMIGO SERIES**

The Amigo FM is a complete stereo audio processing system – both flexible and powerful. Yet, the Amigo is designed for quick and easy set up. Simply set your input level, then your modulation level and you’re on the air. Plus, the Amigo has easy to understand processing controls to customize your station’s sound. A wide range dual band AGC ensure consistent station loudness, by automatically monitoring and adjusting your audio levels. Powerful multi-band limiting system gives your station a natural sound with superior loudness while maintaining outstanding quality. The Amigo’s digitally synthesized multiplex generator provides a flawless, maintenance free stereo signal. CRL’s exclusive stereo sound enhancement provides additional stereo separation to make your station stand out from the competition.

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The Amigo TV is an advanced dual-band audio AGC and limiter. It automatically monitors and adjusts audio levels, ensuring consistent loudness across all programs as well as a clear, natural sound. Call for more information today.

**AMIGOFM** FM stereo processor Mfr. List $2,495.00 ONLY $2,396.00

**AMIGOAM** AM stereo processor Mfr. List $2,495.00 ONLY $2,396.00

**AMIGOTV** TV audio processor Mfr. List $2,495.00 ONLY $2,396.00

**INOVONICS**

235

The Inovonics 235 triband AM broadcast audio processor is available in various versions with different audio bandwidths. Features: fully NRSC-compliant and AMAX-certified; slow gain-ratating, gated-AGC erases long-term input level variations; 3-band compressor/equalizer optimizes program spectral density; peak controller has adjustable clipping depth to maximize carrier modulation; RS-232 allows full remote control.

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**INOVONICS**

DAVID II

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**71600** FM audio processor/stereo generator Mfr. List $2,000.00 ONLY $1,790.00

**MODULATION SCIENCES**

SCA186 SIDEKICK

All you need for SCA in a single chassis, the SCA186 contains subcarrier generator, audio processing; peak holding deviation meter, noise generator and incidental AM noise meter to optimize transmittter tuning for minimum cross talk. Specify 67 kHz or 92 kHz subcarrier when ordering. Inputs/Outputs: balanced screw barrier inputs; BNC composite input; BNC telemetry input; BNC RF input; BNC composite output; BNC SCA output.
Easy to own, CRL's Amigo Series Audio Processors give you high-quality audio at very affordable prices.

Easy to use, "set and forget" Amigo processors give your listeners the loud, clear, consistent sound that will keep them tuned to your audio.

For all the technical specs and details, check out our website at

www.crlsystems.com

Circuit Research Labs, Inc.
2522 West Geneva Drive
Tempe, AZ 85282-3192 USA
Audio Processing

On-Air Processors

CLEARLY NOT FOR EVERYONE

Your Grandmother is certainly a very nice lady, but a Porsche is probably not her ride.

It's the same with processing. Some people should stick with the conservative stuff. Give them something too fast and they just won't know what to do with it. Frankly, the new Omnia-6 is probably not for them. It's just too potent, too flexible.

On the other hand, maybe you are the sort who can run a fast machine. Who loves the thrill of smooth power. Who revels in the admiration of others.

All Omnia Products
Priced Below Manufacturer's Minimum Advertised Price
Call BSW Today!

OMNIA

Omnia.fm is a complete digital 4-band FM processor with digital stereo encoder. It utilizes an advanced design philosophy to provide extraordinary sonic performance with maximum control flexibility. From the user-adjustable wideband AGC to the ThunderBoost EQ and non-aliasing final limiter, Omnia will not compromise your sound. What does all this technology add up to? Crystal clear power. Features: software configured processing on a plug-in PC card with user-adjustable wideband AGC; Thunder Boost EQ for cleaner, more powerful low end; four-band AGC; four-band dynamic peak limiter; non-aliasing final limiter that exceeds the smoothness of a well designed analog limiter; selectable composite clipper; factory presets for various formats, plus user presets; daypart automation; front panel headphone jack; external control via local serial RS-232 or modem; balanced XLR analog I/O; AES/EBU digital I/O; SCA/RDS subcarrier input; two independent composite outputs. Options: new Omnia plug-in PC Card modules provide algorithms to further tailor the power of the Omnia platform; for crank-it-up-to-eleven loudness, choose the Hot model; for stations with more traditional formats like classical or jazz, choose the clean sound of the Veris. The new Space-EFX algorithms improve the stereo soundfield without creating unnatural imaging or increasing multipath.

OMNIA3

Omnia 3 is the all-digital audio processor that offers the clarity, punch and power of the original Omnia, at an amazingly affordable price. There's one to suit every need (FM, AM or the Internet) and each Omnia 3 includes standard features not found elsewhere - like 48 kHz sampling, multi-band processing, digital audio I/Os, integrated composite clipper and a removable PC card for software changes.

OMNIA3.AM offers unrivaled levels of positive modulation with a smooth, FM-like quality plus adjustable filtering for NRSC and narrow band broadcast requirements throughout the world. Stereo or mono processing.

Omnia.net optimizes audio processing for a wide range of bit rates and audio bandwidths; it also conditions audio processing for multimedia listening environments.

OMNIA-6FM

Omnia-6fm is simply the most powerful digital audio processor available. Features: 96-kHz sampling and 24-bit resolution; five bands of AGC and six bands of limiting; a fully adjustable crossover network; remote control via modem, RS-232 or TCP/IP; a "Split Channel" processing mode that lets left and right channels operate as independent processors; built-in Omnia SPACE-EFX stereo enhancement; virtually unlimited preset storage using standard PCMCIA cards (up to 30 presets per card); plus lots more.

OMNIA6

FM audio processor
Mfr. List $10,900.00
CALL FOR PRICE

* Non-inventory item subject to return restrictions.
OPTIMOD 8200

The 8200 is a complete digital audio processing system for FM broadcast, fulfilling all of your station's processing needs: automatic gain control, compression, peak modulation control and stereo generation. Features: flexible software-based processing; select from several factory presets or adjust and store your own custom presets (up to 32) for instant recall; 5-band processing for comprehensive modulation control; fully software upgradable; automatic program switching for format changes throughout the day or night; 8200PC Software (included with purchase of 8200) provides full control of your station's processing from any location. It displays all of the 8200's meters and processing controls on a computer screen via modem communications or direct connection. Balanced XLR I/O and BNC composite outputs.

The 8200D/32 digital interface card allows 32 kHz AES/EBU Inputs and outputs. The 8200D/32 digital interface card can accept inputs of 32, 44.1 or 48 kHz AES/EBU and convert for output of 32, 44.1 or 48 kHz AES/EBU.

Options: 2 -band processing for gentle control of modulation; 5-band processing for comprehensive modulation control; fully software upgradable; automatic program switching for format changes throughout the day or night; 8200PC Software (included with purchase of 8200) provides full control of your station's processing from any location. It displays all of the 8200's meters and processing controls on a computer screen via modem communications or direct connection. Balanced XLR I/O and BNC composite outputs.

OPTIMOD 8200

Loaded with Motorola's latest DSP chips, the Optimod 8400 comes equipped with more than five times the raw processing power of its predecessor. This vastly augmented digital horsepower enabled Orban engineers to implement sophisticated new processing algorithms (seven years in the making) that extend virtually all performance parameters. The 8400 retains many proven OPTIMOD-FM 8200 features, such as the five-band and two-band processing structures, but with its supercharged processing power, there is a clearly audible improvement, namely a noticeably louder and brighter signal, with the smoothness and pristine clarity needed to hold listeners for extended periods.

The result is very high average modulation (loudness), extended headroom, low total harmonic distortion, more intelligible speech and a much cleaner, more natural-sounding signal. The Optimod 8400 possesses all the characteristics expected of an AM analog and digital audio processor: exceptional fidelity, natural sound and freedom from processing artifacts, yielding an FM-like sound on all types of receivers.

Options: 2200D processor with digital AES/EBU I/O.

OPTIMOD 2200

If your station doesn't think it can afford to go digital, take another look. Orban and BSW have cut the cost of digital processing to the bone. You get the same loud, clear OPTIMOD sound, but in a downsized box. The OPTIMOD-FM 2200 gives you the key features you'll find in high-end processors, including digital processing and a digital stereo encoder/generator in a single-rack-space package. Features: 8 factory presets and 8 user-programmable presets that can be switched from the front panel or via remote control; 2-band processing with HF enhancement to protect against peak overmodulation; non-volatile memory; built-in tone generator; input/output and gain reduction LED meters; balanced analog XLR I/O and two BNC composite outputs. Options: 2200D processor with digital AES/EBU I/O.

OPTIMOD DAB 6200

OPTIMOD DAB 6200 is designed for digital audio broadcasting. A transparent limiter provides control of peaks for protection against digital clipping, while OPTIMOD processing structures ensure source-to-source consistency. Presets are provided for all radio formats and webcasting applications. It's compatible with Eureka 147 and all proposed DAB and Radio Mondial systems. Features: 2-band processing for gentle control of dynamics; 5-band processing with a flexible set of equalization controls; 20 kHz bandwidth for wideband DAB; bandwidth variable to 4 kHz for narrow-band, low-sample-rate broadcasting (IBOC shortwave systems); computer control via modem.

OPTIMOD 9200

This true digital AM processor includes presets for HF applications. Features: true 5-band DSP processing; factory format presets and user-programmable presets; remote switching of presets and selected functions (PC remote control software included); transmitter EQ; built-in sine and square wave test tone oscillator; dual analog output. The 9200UD adds digital I/O.

OPTIMOD 9100B2

The industry standard 9100B2 AM audio processor contains a wide band AGC, 6-band limiter, safety clipper, and all appropriate filtering for complete processing control. The result is very high average modulation (loudness), exceptional fidelity, natural sound and freedom from processing artifacts, yielding an FM-like sound on all types of receivers.

OPTIMOD 2820ST/U

The 2820ST/U is the perfect companion for the OPTIMOD 8200, used on the studio end of an STL system. It provides average or peak level control by combining stereo AGC compressor/limiter, HF limiter and peak controller. Balanced XLR I/O.

OPTIMOD 8218

The 8218 is an all-digital stand-alone FM stereo encoder/generator with input flexibility, superb performance specifications and a patented limiter that eliminates overshoots. Processing/encoding is performed in the digital domain, assuring extremely clean, stable output. The 8218 accepts left/right analog or AES/EBU digital inputs, either flat, pre-emphasized or NICAM 1.17.

OPTIMOD 9200

The 9200UD adds digital I/O.

OPTIMOD 9100B2

The industry standard 9100B2 AM audio processor contains a wide band AGC, 6-band limiter, safety clipper, and all appropriate filtering for complete processing control. The result is very high average modulation (loudness), exceptional fidelity, natural sound and freedom from processing artifacts, yielding an FM-like sound on all types of receivers.

CALL FOR PRICE

Mfr. List $10,700.00

Mfr. List $5,600.00

Mfr. List $267.00

Mfr. List $623.00

Mfr. List $6,500.00

Mfr. List $300.00

Mfr. List $700.00

Mfr. List $1,400.00

ONLY $3,245.00

ONLY $1,756.00

Mfr. List $1,975.00

ONLY $1,245.00

Mfr. List $5,912.00

ONLY $5,600.00

ONLY $267.00

ONLY $623.00

CALL FOR PRICE

Mfr. List $1,400.00

ONLY $1,245.00

Mfr. List $1,975.00

ONLY $1,756.00

Mfr. List $5,912.00

ONLY $5,600.00

ONLY $267.00

ONLY $623.00

CALL FOR PRICE

Mfr. List $51,070.00

Mfr. List $4,250.00

ONLY $3,778.00

Mfr. List $4,650.00

ONLY $4,134.00

ONLY $3,778.00

ONLY $4,134.00

* Non-inventory item subject to return restrictions.
**Audio Processing**

### Delays

**EVENTIDE**

**BD500-000/BD500-100**

From the inventors of the digital talk show delay, comes an affordable solution for keeping profanities off the air. **Features:** Eventide's patented automatic catch-up circuitry; a user-definable function to divide the total available delay time into several discrete segments to protect against multiple obscenities that occur in succession; a 'Quick Read' bar graph to instantly confirm you have delay time left; RS-232 port and dry contacts for remote control. The BD500-000 has balanced XLR I/O. The BD500-100 adds AES/EBU digital I/O.

*BD500-000* broadcast delay Mr. List $3,395.00 ***ONLY $2,888.00***

*BD500-100* broadcast delay w/ digital I/O Mr. List $4,690.00 ***ONLY $3,989.00***

**SYMETRIX**

**610**

The Symetrix 610 Broadcast Delay is a cost-effective way to deal with on-air profanities, allowing talk show hosts to dump obnoxious callers and automatically build back 7.5 seconds of delay time. **Features:** true stereo delay; selectable build-up time and a two-stage dump option let you set the catch-up time for the speed and intensity of your show; a cough button for short duration dumps; an Exit function which gradually releases memory to bring audio up to real time at the end of a show; automatic bypass mode; remote control/status connector; balanced XLR I/O. 610 broadcast audio delay Mr. List $1,999.00 ***CALL FOR PRICE***

**RANE**

**AVA22D**

The Rane AVA 22d is a fully balanced two input, two output audio/video alignment delay providing a range of 0.0 to 9.5 NTSC or PAL/SECAM frames on each output. Each output has two non-volatile memories, A and B, for easy access to previously stored delay values. Remote recall screw terminals on the rear accept external configuration switches, permitting independent recall of memories. 24-bit audio converters provide excellent sound quality. The AVA 22d features XLR I/Os. It can operate as two independent channels (dual mono), or as a stereo pair. It's also a unity gain device with sensitivity controls to provide proper internal levels for the audio converters.

*AVA22D* audio/video alignment delay Mr. List $899.00 ***ONLY $679.00***

### Voice Processors

**DBX**

**286A**

Here's an inexpensive way to get really great sounding vocals with the dbx 286A. **Features:** a single, studio quality mic preamp with phantom power; compressor circuit; de-esser; patented high-frequency and low-frequency detail controls; high-pass filter; expander/gate section; balanced mic and line level inputs; insert jack for utilizing outboard processing and effects; balanced XLR inputs; balanced 1/4" TRS outputs. 286A mic/voice processor Mr. List $350.00 ***ONLY $229.00***

**PRESONUS**

**VXP**

This single-channel, multi-feature microphone processor provides a high-quality mic pre, compressor, expander, de-esser, semi-parametric EQ and peak limiter in a highly visible, user-friendly unit. **Features:** high-quality transformer with Class A discrete Fet input buffers and Dual Servo Gain Staging; 16 programmed compression curves; variable control over expansion threshold and ratio; variable de-esser from 800 Hz to 8 kHz; 4-band equalizer section; high headroom (+24 dB); THD <0.005%; signal to noise ratio @ >96dB; multiple meter and function lights; balanced XLR I/O; 1/4" TRS send and return jacks. Options: 24-bit digital output card.

VXP mic/voice processor Mr. List $799.95 ***ONLY $599.95***

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*Non-inventory item subject to return restrictions.*
700 426 8434 www.bswusa.com

Audio Processing

Compressors / Dynamic

SYMETRIX

628
The programmable Symetrix 628 digital voice processor offers 128 memory presets for personalized voice work in broadcast and recording. It combines a premium quality microphone preamplifier, compressor/limiter, expander/gate, de-esser, and parametric 3-band EQ in a single rack space. **Features:** high-gain direct coupled mic preamp with phantom power; precise parameter adjustment with rotary knobs; 128 processing presets including 8 factory presets; 20-bit A/D and D/A converters; mic and line level inputs; AES/EBU and S/PDIF digital output; balanced XLR and unbalanced 1/4" analog outputs; MIDI in/out.

628 mic/voice processor Mfr. List $1,249.00 ONLY $1,061.00
RC1SYMETRIX remote control for Symetrix 628 Mfr. List $199.00 CALL FOR PRICE

528E
The Symetrix 528E is an industry standard analog voice processor with 5 main functions in a single-rack-space unit. **Features:** microphone preamp with a switchable 15 dB pad; front panel mic/line level switch; 48-volt phantom power; voice symmetry switch (phase rotator) that corrects for excessive positive or negative signal peaks; de-essing with frequency and range controls; compression/limiting with downward expansion; 3-band parametric equalization. Balanced XLR mic and line level inputs; balanced XLR and unbalanced 1/4" outputs; 1/4" in and out patchpoints on each section.

528E voice processor Mfr. List $749.00 ONLY $519.00

VALLEY

401
Features: low noise, high-gain mic preamp with switchable 48-volt phantom power; 3-band EQ with center frequencies and slopes specifically tailored for voice; compressor and expander/gate functions that operate interactively to provide effective dynamic control without unwanted noise artifacts; de-esser with normal or heavy settings; balanced XLR mic/line input; balanced XLR mic and 1/4" TRS line level outputs; balanced 1/4" TRS line level send and return jacks.

401 microphone processor Mfr. List $680.00 ONLY $582.00

ALESIS

NANOCOMPRESSOR
NanoCompressor™ is an incredibly affordable yet sonically powerful solution for full-featured stereo compression. Its small size and low price belie the fact that it offers pro features like complete compression controls, RMS and peak signal detection, hard and soft knee curves and a sidechain input, making it a great compression device.

NANOCOMPRESSOR single-channel compressor Mfr. List $119.00 ONLY $89.00

ALESIS

3630
An affordable dual channel unit, the 3630 ideal is for a number of applications from vocal recording to stereo program mixdown. **Features:** switchable RMS/peak and hard knee/soft knee styles of compression; variable attack and release in peak mode allow you to customize the dynamic response to suit the job; independent built-in noise gate ensures quiet performance; sidechain inputs for de-essing or ducking functions; dual mono or stereo operation; unbalanced 1/4" I/O with -10/44 level selection

3630 2-channel compressor/limiter Mfr. List $199.00 ONLY $149.00

APHEX

COMPELLOR SERIES
The dual-channel 320A delivers intelligent compression, leveling and peak limiting simultaneously for automatic gain riding that is artifact-free. **Features:** dynamic silence gate and quick compression recovery; 3 modes of stereo/dual mono operation; comprehensive metering; balanced or unbalanced I/O via XLR connectors. The single-channel 323A combines Compellor® circuitry with Aphex's popular Aural Exciter® circuitry. Balanced or unbalanced I/O via XLR connectors.

320A 2-channel compressor/limiter/leveler Mfr. List $1,350.00 ONLY $1,072.00
323A mono compressor/limiter/leveler Mfr. List $949.00 ONLY $756.00

DOMINATOR II SERIES
Dominator II 720 is a precise stereo multi-band peak limiter for applications requiring an absolute peak ceiling. **Features:** peak ceiling adjustable in .2 dB steps over a 34 dB range; switchable low to mid and mid to high crossover frequencies; remote control hardware bypass; dynamic range 104 dB and THD distortion of less than .005%; balanced XLR I/O. The 722 adds pre-emphasis.

720 multiband peak limiter Mfr. List $1,350.00 ONLY $1,072.00
722 multiband peak limiter w/pre-emphasis Mfr. List $1,495.00 ONLY $1,191.00

*Non-inventory item subject to return restrictions.
**BEHRINGER AUTOacom PRO MDX1400**

The affordable AUTOacom PRO MDX1400 compressor/limiter/limiter/expander combines the advantages of hard knee and soft knee compression in a single dynamic processing function for natural, transparent results. It is designed primarily as an easy-to-use automatic compression tool, but it also offers sufficient manual controls. Features: Interactive dynamic process with link function; high-pass filter in the side chain; separate IRC expander/gate circuits; integrated dynamic enhancer/RCA (Interactive Knee/Adaptation) function; fully automatic or manually adjustable attack and release times; IRC circuitry with adjustable ratio allows expansion/gating with no side effects; selectable mono or stereo mode; precise 12-segment displays for input/output levels and gain reduction; selectable operating level (+4 dBu or -10 dBV); servo-balanced inputs and outputs; XLR and 1/4" TRS connectors.

**DBX 266XL**

The 266XL is a full-featured, high-performance dual compressor/gate that uses the dbx AutoDynamic attack and release circuitry to deliver true dbx compression for a wide range of applications, plus an advanced dbx gate circuit for smooth, natural sounding gating. Features: stereo or dual-mono operation; separate precision LED displays for gain reduction; simple set up and operation; sidechain insert; balanced XLR and 1/4" TRS inputs and outputs.

**DBX QUANTUM**

Quantum is dbx's first studio mastering tool that offers sampling rates up to 96 kHz, with a true 48-bit digital signal path and superior dbx dynamics processing. It comes with the patent-pending TYPE IV conversion system on board. TYPE IV captures the character and original warmth of any analog signal to the digital domain. Features: 4-band stereo compressor/gate/limiter; 5-band EQ (hi and shelf, 3-band fully parametric); outputs to 16, 20 or 24 bits, AES/EBU and P/DoP digital I/O.

**DBX 166XL**

This two-channel, stereo linkable compressor/limiter/expander/gate offers a choice of Over-Easy® or hard-knee compression with two sets of program dependent attack and release circuit timing constants. Features: expander/gate with continuously variable release and a 75 dB threshold range; PeakStop® limiting; switchable low frequency shelf prevents LF programming from punching holes in your sound; balanced XLR and 1/4" TRS inputs and outputs.

**DBX DDP**

The DDP stereo processor gives you the classic dbx sound with gating, compression, limiting, de-essing and sidechain EQ with the precise control of digital. Features: extensible metering; graphical representation of signal shows composite effects in real time; 24-bit A/D-D/A converters; 50 factory and 50 user presets; balanced XLR and TRS 1/4" I/Os. Options: digital I/Os.

**DBX 1066**

This flexible dynamics control device allows you to choose the level and style of compression/limiting you like. Use the Auto button to automatically achieve a classic dbx sound, or use the independent attack and release controls to tailor the 1066 to your specific needs. Features: PeakStopPlus circuitry offers still limiting without unwanted side effects; new lightpipe technology replaces standard LEDs; makes the 1066 very easy to read and operate; sidechain input for ducking and frequency dependent limiting; balanced inputs and outputs with XLR and 1/4" TRS connectors.

**DBX 160A**

The 160A is an improved version of the famous dbx 160 single channel compressor/limiter. Features: Over-Easy® or hard-knee operation; wide range of compression ratios including negative compression, gain reduction and input/output level metering; balanced XLR and TRS inputs; independent balanced XLR and unbalanced 1/4" TRS outputs.

**DBX 1066FL**

This two-channel, stereo linkable compressor/limiter/limiter/expander/gate with on-board TYPE IV signal processing gives you the classic dbx sound with gating, compression, limiting, de-essing and sidechain EQ with the precise control of digital.

**DBX 266XL**

The 266XL is a full-featured, high-performance dual compressor/gate that uses the dbx AutoDynamic attack and release circuitry to deliver true dbx compression for a wide range of applications, plus an advanced dbx gate circuit for smooth, natural sounding gating. Features: stereo or dual-mono operation; separate precision LED displays for gain reduction; simple set up and operation; sidechain insert; balanced XLR and 1/4" TRS inputs and outputs.
**Presonus ACP88**

Presonus ACP88 is an 8-channel dynamics processor designed to provide compression, limiting and noise reduction for a variety of applications. **Features:**
- Compression ratio from 1:1 to infinity
- Variable attack and release times
- Automatic attack/release times
- 8-channel compressor/limiter

**Presonus BLUEMAX**

Presonus BLUEMAX is a smart stereo compressor/limiter with 15 studio presets: 3 vocal presets, 8 instrument settings, 2 classic stereo settings and 2 special effects. Besides the studio presets, its manual mode gives you full control over compression parameters including variable input/output, attack/release times and ratio from 1:1 to 20:1. **Features:**
- Onboard metering shows input/output levels and gain reduction
- Internal power supply; unbalanced 1/4" I/Os.

**Rane DC24**

This unique, 2-channel compressor/limiter/selector/gate offers split band processing for separate control over lows and highs. **Features:**
- Compressor ratio and threshold, expander/gate ratio and threshold, limiter threshold, gain reduction LED meters; built-in crossover for separate band processing: 1/4" I/O (switchable -10 dBV/-44 dBu).

**Symetrix 301**

The 301 compressor/limiter delivers extremely clean compression for broadcast applications. Unique circuitry eliminates secondary causes of distortion during compression, allowing use of shorter release times. **Features:**
- Automatic attack/release button for quick preset setup; 115 dB range; ultra-low THD+Noise of less than .008% at any gain reduction level; balanced XLR and Euroblock inputs and outputs; half-rack size.

**Symetrix 565E**

The 565E is an extremely flexible, low distortion, high performance multi-dynamics processor. **Features:**
- Two channels (each with simultaneous downward expander, compressor and peak limiter); Dynamics Squared circuitry reduces distortion during gain reduction; dual mono or stereo operation; individual LED meters for each processing section and output; balanced XLR and unbalanced 1/4" inputs and outputs.
ALESIS PEQ-450

The new Alesis PEQ-450 is exceptionally feature rich and remarkably affordable. This five-band parametric equalizer is a four-channel, stereo digital processor with the look and feel of high-end analog systems. The unique, one knob per function interface makes it easy to use for exceptional control. Balanced 1/4" TRS inputs and outputs.

*PEQ-450 dual 5-band parametric equalizer Mfr. List $399.00 ONLY $349.00

ALESIS MEQ230

No other equalizer offers more EQ control in such a small package. Features: two complete 30-band 1/3 octave equalizers in one rack space; each channel handles frequencies from 25 Hz to 20 kHz with ±12 dB boost or cut per band; power up delay circuitry protects speakers from damage; unbalanced I/O via 1/4" and RCA jacks.

MEQ230 dual 30-band graphic equalizer Mfr. List $299.00 ONLY $229.00

**BEHRINGER DSP1100P/DSP1110**

Destroy feedback automatically with the DSP1100P. This digital 2-channel feedback suppressor/parametric EQ is based on a high-power 24-bit DSP. It offers both automatic feedback suppression and a manual mode for use as a highly selective parametric EQ (24 programmable filters). With servo-balanced I/O and an internal power supply in its 1RU case, the DSP1100P is ready for any professional application requiring dynamic feedback control.

The DSP110 ultra-compact wonder machine combines an automatic, self-learning feedback suppressor, a super-variable delay line and a ULN microphone preamplifier with phantom power, an automatic noise gate, a compressor, and a variable low-cut filter - all in an extremely rugged casing. Features: 24-bit A/D and D/A converters; automatic noise gate with learn mode and manual adjustment; level conversion from line to mic level and vice versa; balanced XLR and 1/4" TRS connectors.

DSP1100P feedback suppressor/parametric EQ ONLY $159.00

DSP1110 compact feedback suppressor ONLY $159.00

**RANE ME SERIES**

The Rane ME15B is a 2-channel, 15-band 2/3 octave EQ in a single rack space unit. Features: a range switch for the 20mm faders allowing cut or boost of ±12 dB or ±6 dB; input and output level controls; balanced XLR or 1/4" TRS I/O.

ME15B 2-channel, 15-band parametric equalizer Mfr. List $549.00 ONLY $332.00

ME30B 30-band graphic equalizer Mfr. List $429.00 ONLY $325.00

ME60 30-band graphic equalizer Mfr. List $699.00 ONLY $527.00

**RANE PE17**

Rane's five-band parametric EQ is excellent for digital audio workstations, production and on-air applications. Low noise and wide bandwidth make it ideal for heavy commercial use. Features: 5 bands each with full 10 Hz to 20 kHz frequency range; sweepable high and low-cut filters; bandwidth range from 2 octaves to .03 octave; ±12/ -15 dB boost/cut range; individual band bypass switches; balanced XLR and 1/4" TRS inputs and outputs; 1/4" TRS patch insert jack.

PE17 5-band parametric equalizer ONLY $414.00

**ART 300 SERIES**

With the ART 300 Series, choose from the dual 15-band (341) or single channel 31-band (351) EQ in a single rack space, or dual channel 31-band (355) EQ in a dual rack space. Features: dual range switch (±6dB or ±12dB cut/boost); bypass switch; high-pass and low-pass controls (on 351/355 only); balanced XLR, 1/4" and unbalanced RCA I/O; 120/240 volt switch; rear panel ground lift switch; LED metering; remote bypass port; balanced or unbalanced I/O for easy setup; parallel input and output LED ladder function interface makes it easy to use for exceptional control. Balanced 1/4" TRS connectors.

341 dual 15-band graphic equalizer Mfr. List $249.00 ONLY $159.00

351ART 31-band graphic equalizer Mfr. List $249.00 ONLY $159.00

355ART dual 31-band equalizer Mfr. List $389.00

**SYMETRIX 422**

This stereo, wide-range, AGC amplifier and peak limiter keeps audio levels consistent by gently bringing up lower level audio and transparently limiting audio that is too hot. Radio stations use the 422 as a preprocessor to boost the horsepowe of their on-air processors. The 422 is an excellent remedy to inconsistencies between commercials and other program material for TV stations, cable systems and automated radio stations. Features: target level control for easy setup; parallel input and output LED ladder metering; remote bypass port; balanced or unbalanced I/O via XLR and TRS connectors.

**Equalizers**

**32**
**Equalizers**

**ROLLS**

**REQ SERIES**

REQ215 is a low cost, dual-channel, 2/3 octave equalizer in a single rack space with features and performance comparable to higher priced EQs. **Features:** smooth band-pass filtering that's virtually distortion-free; transparent low-noise circuitry; high and low shelving filters with adjustable roll-off and high-cut functions; 5 segment LED metering; balanced XLR or unbalanced 1/4" phone jack I/O.

REQ215  dual 15-band graphic equalizer  Mfr. List $250.00  ONLY $215.00

REQ232  31-band stereo graphic equalizer  Mfr. List $460.00  ONLY $395.00

**SYMETRIX**

**550 SERIES**

The 551E is a mono parametric device that provides more accurate and precise control than is possible with a graphic EQ. **Features:** 5 identical, fully overlapping EQ bands, each with 12 dB boost and 20 dB cut; adjustable bandwidth from .05 to 2 octaves and a frequency range control from 10 Hz to 20 kHz; extremely low noise and distortion; high cut and low-cut filters; balanced and unbalanced I/O via XLR and 1/4" TRS connectors.

The 552E is a dual 5-band parametric EQ for stereo applications.

551E  5-band parametric equalizer  Mfr. List $449.00

552E  dual 5-band parametric equalizer  Mfr. List $749.00

**530 SERIES**

The 530 Series graphic equalizers are a high-quality, value driven alternative to other affordable equalizers. Proprietary topology delivers extremely low noise and distortion. **Features:** mode switch for bypass; 26 dB, or ±12 dB cut/boost ranges; high-cut and low-cut filters; metal shaft faders for precise control; balanced XLR and TRS I/O; internal power supply.

The 531E is a 2RU, mono 31-band unit with 60 mm faders. The 532E is a dual 31-band unit with 20 mm faders. The 533E is a dual 31-band unit with 40 mm faders in a 3 RU chassis.

531E  31-band graphic equalizer  Mfr. List $599.00

532E  dual, 31-band graphic equalizer  Mfr. List $749.00

533E  dual, 31-band graphic equalizer  Mfr. List $949.00

**Effects Processors**

**ALESIS**

**MIDIVERB4**

MidiVerb 4 is a flexible multi-effect processor with the ability to combine up to 3 effects simultaneously. **Features:** 128 factory presets including reverbs, delays, chorus, flanging and pitch effects; comprehensive editing system which lets you program your own effects and store them in memory; stereo or mono modes; auto level sensing inputs; unbalanced 1/4" I/O.

MIDIVERB4  2-channel effects processor  Mfr. List $329.00  ONLY $249.00

**MICROVERB4**

MicroVerb 4 is a true stereo, 18-bit effects processor in an affordable package. **Features:** 100 preset and 100 user programs including varieties of reverbs, delays, chorus, flange, etc.; mono and stereo programs with single and multiple effects; dual-send programs that allow you to send one effect to one channel and another to the other channel; unbalanced 1/4" I/O.

MICROVERB4  2-channel effect processor  Mfr. List $249.00  ONLY $199.00

**NANOVERB**

This compact, inexpensive 2-channel processor offers high quality effects that you can take with you on the road. **Features:** 16 adjustable programs including reverbs, chorus, delay, flange as well as multi-effects such as chorus/reverb and chorus/reverb/delay and a realistic rotary speaker simulator; 24-bit DSP chip; 18-bit A/D and D/A converters; unbalanced 1/4" I/O.

NANOVERB  2-channel effects processor  Mfr. List $135.00  ONLY $99.00

**APHEX**

104

The 104 is the Aural Exciter in an affordable package. The 104 combines two processing types to allow the user to enhance both ends of the spectrum. The Aural Exciter portion utilizes the same psychoacoustic principles of the professional Type III to increase presence and clarity with enhanced stereo imaging and virtually no noise. Big Bottom™ is the revolutionary bass enhancer that provides more powerful bass dramatically increases bass presence, density and loudness without vastly increasing peak amplitude or generating sub harmonics. **Features:** +4 or -10 dB operation; unbalanced 1/4" I/O.

104  aural exciter with unbalanced I/O  Mfr. List $299.00  ONLY $203.00

* Non-inventory item subject to return restrictions.
**Effects Processors**

**APHEX 250**
Aural Exciter 250 is a patented audio processor for broadcast and professional audio applications. It's spectral phase refraction (SPR) function corrects the bass delay anomaly inherent in the recording process to restore clarity and openness, and significantly increases the apparent bass energy level without adding amplitude equalization or 'bass boost'. This SPR circuitry combined with Aphex's Adjustable Harmonics Mixing, the 250 provides an easy, yet flexible way to restore the punch lost in the recording process and through on-air processing. Noise and distortion are virtually eliminated in the 250's revised Type III circuitry. Features: two modes of noise reduction actually erases noise; RF filtered power; I/O levels from -10 to +8 dBm; balanced XLR I/O.

**BEHRINGER VIRTUALIZER DSP1000P**
The VIRTUALIZER DSP1000P uses a high-power 24-bit DSP with two separate "engines" to process entirely different effects for the left and right channels. You can, for example, use it as a chorus on one channel and as a reverb on the other. All parameters can be edited via the jog wheel and stored in user programs. Choose from 32 high-performance algorithms for chorus, flanger, delay, reverb and more (customizable to create 700 variations). Features: 24-bit internal processing; 20-bit A/D-D-A converters with 64/128-times oversampling; 100 memory settings; balanced analog XLR and 1/4" TRS connectors.

DSP1000P  dual multi-effects processor  ONLY $149.00
Mfr. List $179.00

**BEHRINGER MODULIZER PRO DSP1200P**
With the MODULIZER PRO DSP1200P you have enough power to explore entirely new frontiers. Ear-opening modulation effects like 8-voice chorus and spatial flanging puts tons of unique and trendy stuff at your fingertips. From 3D effects to jet-stream flanger and resonator – you'll re-discover the fun of effect creation. Features: 20-bit A/D and D/A converters with 64/128-times oversampling; true stereo processing allows separation of left and right channels; 100 user presets; 24 effects such as Ultra Phaser, Auto Filter, Ambience, Compressor, Super Bass, Vintage, 3D Processor and more; 24-bit processing; professional 46-kHz sampling rate; balanced XLR and 1/4" TRS connectors.

DSP1200P  multi-effects processor  ONLY $149.00
Mfr. List $179.00

**ART 416 DMV-PRO**
The 416 DMV-PRO is a true, dual stereo effects processor. It offers all the parameter editing, MIDI capability and programmability of two full-featured effects processors. Independent editing interfaces allow for immediate access to both stereo processors, and its two LCDs provide clear visual feedback. Features: 24-bit effects processing; 20-bit A/D-D/A; many effects including hall, chamber and room reverbs, chorus, flange, pitch-shift, tremolo, panning, delay and more; fully programmable with 100 user presets; MIDI controllable; 4 unbalanced 1/4" inputs and outputs.

416  dual stereo effects processor  ONLY $380.00
Mfr. List $525.00

**DIGITECH S100/S200**
The S100's dual engine configuration can operate as two individual effects processors or as a single stereo processor. The effects range from reverbs and delays to rich choruses, flangers and phasers to hard-to-find effects like vocoder and ring modulator. Features: 26 different effect types (99 user/99 factory presets); 5 effect routing configurations; MIDI selectable programs; 24-bit internal signal path; 20-bit A/D and D/A conversion; 96 dB S/N ratio; unbalanced 1/4" inputs and balanced 1/4" outputs. S200 adds a graphical display and preview function for easy program creation and immediate feedback.

*S100 multi-effects processor  ONLY $179.95
Mfr. List $220.00

*S200 multi-effects processor  ONLY $279.95
Mfr. List $340.00

**EVENTIDE ORVILLE**
With its exquisitely engineered DSP power plant, 96 kHz/24-bit sampling, "anything-to-anything" multi-channel routing facilities and vast programming capability, Orville will let you master any signal-processing task that comes your way. With Orville, you'll never feel "under powered". Why? Because whether you're processing one channel of audio or two sets of dual stereo signals, Orville is a powerful, self-contained signal processing platform. Orville incorporates Eventide's newest pitch-shifting technology, the UltraShifter. This format-maintaining algorithm gives you the ability to produce natural vocal harmonies in real-time. Conventional pitch-shifting technology simply cannot produce the natural and powerful vocal harmonies that the UltraShifter does throughout its full four-octave range. No longer are you limited to "thickening" vocals by shifting them up or down a few cents – try a fifth or an octave! You want four-channel reverbs for 360-degree surround-sound ambiance? Orville's got 'em, not to mention an abundant array of reverbs, pitch shifters, distortion, dynamics, EQ, phasing, flanging, and other music and production effects: all front-panel selectable using either the Eventide knob or keypad. Need something you don't see in the program list? New programs can be created with the on-board object-oriented algorithm construction kit. This kit is a "virtual patchbay" that includes over 150 distinct effects modules, all editable using the large LCD window. Eventide's Timesqueeze algorithm, tested and proven in the demanding arena of broadcast production, ensures real-time, high-quality pitch change and time-compression/expansion on playback. Record your material into the sampler and apply this feature when, for example, you need to "Timesqueeze" a 35-second piece of audio into 30 seconds or stretch it to fit a music cue. Menu and parameter selection are accomplished with expanded up/down/left/right keys. A standard PCMCIA card loaded into the front panel adds portability and additional storage of your processing and routing programs.

*ORVILLE multi-effects processor  ONLY $4,844.00
Mfr. List $5,695.00

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*Non-inventory items subject to return restrictions.
TC ELECTRONIC
M-ONE/D-TWO
TC Electronic's M-ONE dual effects processor gives you 20 different effects (reverb, chorus, tremolo, pitch, delay and more) and lets you run two effects simultaneously. You can even create your own combination effects and store them into 100 user presets.

With the D-TWO Multitap Rhythm Delay, TC introduces a truly musical rhythm tap feature: not just tempo, but actual rhythmical patterns can be directly tapped in, or quantized according to a specific tempo and subdivision. You can even control the exact number of repeat steps with Absolute Repeat Control and specify repeats of up to one second each. Six unique direct access features include: Spatial, Ping-Pong, Reverse, Dynamic, Chorus and Filter.

Common features include: 24-bit A/D-D/A converters; factory and user presets; unbalanced S/PDIF digital I/O (44.1-48 kHz); balanced 1/4" phone jack I/O; MIDI in/thru/out.

M-ONE  multi-effects processor  Mfr. List $699.00  ONLY $499.00
D-TWO  multitap rhythm delay  Mfr. List $699.00  ONLY $499.00

LEXICON
MPX SERIES
The MPX100 and MPX500 stereo processors offer 24-bit internal processing at an affordable price (MPX100 with 20-bit A/D-D/A; MPX500 with 24-bit A/D-D/A). Each has 240 presets with classic, true stereo reverb programs such as ambience, plate, chamber and inverse as well as tremolo, rotary, chorus, flange, pitch, detune, delay and echo. Dual-channel processing allows control of completely independent effects on the left and right channels. The more advanced MPX500 adds a graphical display for greater control and much more. Common features include: dual, two-stage headroom indicators; headphone output; software-selectable MIDI I/O; built-in snare and rim-shot samples let you test programs; balanced XLR and unbalanced 1/4" I/O.

The MPX 1 fulfills the promise implied by the term "multi-effects." The MPX 1 has Lexicon's own proprietary Lexichip, dedicated to delivering uncompromised Lexicon stereo reverb or ambience, in addition to another processor to create the other digital effects. So you get your best reverb, at all times, along with as many as 4 additional stereo effects.

MPX100  stereo effects processor  Mfr. List $299.00  ONLY $199.00
*MPX500 24-bit stereo effects processor  Mfr. List $599.00  ONLY $399.00
*MPX1  multi-processor effects system  Mfr. List $899.00  ONLY $749.00

* Non-inventory item subject to return restrictions.

TC HELICON
VOICEPRISM SERIES
VoicePrism is a one-of-a-kind vocal processor with the ability to change your voice characteristics to create new realistic character voices or add harmonies to vocal parts. It offers 4-voice backing, vocal harmonies with independent gender and humanizing controls and automatic lead-voice duplication. In addition it features compression, gating and dual parametric EQ plus a variety of post-effects including delay, chorus, flange and reverb with pre-delay. Features: a high-quality 48V phantom mic preamp input and a line level analog input that feed 24-bit digital converters 128 fully editable presets; preset browser and direct edit buttons and stereo 1/4" TRS analog and digital S/PDIF outputs.

VoicePrismPlus adds additional DSP power, algorithms and the ability to do-voice modeling/emulation for even greater creative possibilities.

*VOICEPRISM  vocal formant pitch processor  Mfr. List $1,299.00  ONLY $999.00
*VOICEPRISMPLUS  VoicePrism w/ emulation card  Mfr. List $1,898.00  ONLY $1,498.00

YAMAHA
REV500/REV100
The REV500 is Yamaha's breakthrough in price/performance processing with 32-bit processing and 20-bit A/D-D/A converters. Features: 100 user presets and 100 user programs; exceptional reverbs, plus reverb with chorus, flanging, gate, dynamic filter and more; dedicated knobs for main parameter adjustment; built-in snare and rim-shot samples let you test programs; balanced XLR and unbalanced 1/4" I/O.

The REV100 is an inexpensive, stereo multi-effects processor. Features: reverb, delay and modulation effects, plus combinations; rotary controls for the three most critical parameters; 99 editable factory presets; input and output level controls; peak LEDs; MIDI interface; unbalanced 1/4" I/O.

REV100  effects processor  Mfr. List $299.00  ONLY $239.00
REV500  effects processor  Mfr. List $499.00  ONLY $399.00

YAMAHA
SPX990
This stereo-in, stereo-out multi-effects processor is a standard in studios all over the world. Features: 36 main effects including reverbs, early reflections, delay, echo, modulation, pitch change, pan, freeze and combinations of the above; 3-band parametric EQ, compressor and harmonic driver can be inserted in with the main effects; 100 user memory locations; optional plug-in memory cards (WCD32) store up to 100 additional programs; 20-bit A/D-D/A converters; balanced XLR I/O and unbalanced 1/4" I/O.

SPX990  effects processor  Mfr. List $1,179.00  ONLY $929.00

Non-inventory item subject to return restrictions.

Audio Processing

TC Helicon VOICEFRISM Series

NEW

ROLAND
VT-1
Actually change the entire character of your voice with the Roland VT-1. Easy-to-use controls let you change your voice to sound like the opposite sex, robots, chipmunks and others. Features: 4 memory presets; pitch sliders to raise or lower the fundamental note pitch; mic and line I/Os.

VT-1  voice transformer  Mfr. List $395.00  ONLY $301.00

YAMAHA
SPX990
This stereo-in, stereo-out multi-effects processor is a standard in studios all over the world. Features: 36 main effects including reverbs, early reflections, delay, echo, modulation, pitch change, pan, freeze and combinations of the above; 3-band parametric EQ, compressor and harmonic driver can be inserted in with the main effects; 100 user memory locations; optional plug-in memory cards (WCD32) store up to 100 additional programs; 20-bit A/D-D/A converters; balanced XLR I/O and unbalanced 1/4" I/O.

SPX990  effects processor  Mfr. List $1,179.00  ONLY $929.00

Non-inventory item subject to return restrictions.
**Cart Machines and Bulk Erasers**

**FIDELIPAC**

**CTR10 SERIES**

Fidelipac cart machines offer 4 choices: mono play, stereo play, mono record/play and stereo record/play. Features: automatic fast forward may be activated at the beginning or end of the secondary cue tone or entered manually from any other mode; three cue tones standard; secondary and tertiary tones may be manually recorded at any time to initiate external functions, fast forward and mute audio; high speed cueing; 1 kHz defeat with dedicated front panel indicator (recorder); selectable front panel metering for audio, phase and cue tones (recorder); balanced I/O via 9-pin D connectors (plugs supplied).

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Mfr. List</th>
<th>Only</th>
</tr>
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<tbody>
<tr>
<td>CTR11</td>
<td>mono play cart machine</td>
<td>$2,110.00</td>
<td>$2,034.00</td>
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<td>CTR12</td>
<td>stereo play cart machine</td>
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<td>CTR13</td>
<td>mono record/play cart machine</td>
<td>$2,445.00</td>
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<td>CTR14</td>
<td>stereo record/play cart machine</td>
<td>$2,595.00</td>
<td>$2,520.00</td>
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</tbody>
</table>

**AUDIOLAB**

**TD5/TD18**

The TD5 is designed to erase all audio, video and computer media. It works with all formats of cassettes and tape reels up to 16" in diameter and 2" in width. Switchable intermittent or continuous duty operation. The TD18 erases cartridges, cassettes and up to 10 1/2" reels.

- TD5: Mfr. List $1,695.00, Only $1,517.00
- TD18: Mfr. List $1,455.00, Only $1,370.00

**TD51160**

Tabletop bulk eraser

- Mfr. List $1,695.00
- Only $1,517.00

**CTR11**

Mono play cart machine

- Mfr. List $2,110.00
- Only $2,034.00

**CTR12**

Stereo play cart machine

- Mfr. List $2,240.00
- Only $2,160.00

**CTR13**

Mono record/play cart machine

- Mfr. List $2,445.00
- Only $2,357.00

**CTR14**

Stereo record/play cart machine

- Mfr. List $2,595.00
- Only $2,520.00

**TD18**

Handheld bulk eraser

- Mfr. List $1,455.00
- Only $1,370.00

**TD51160**

Tabletop bulk eraser

- Mfr. List $1,695.00
- Only $1,517.00

**TD18**

Handheld bulk eraser

- Mfr. List $1,455.00
- Only $1,370.00

**TD5/TD18**

Tabletop bulk eraser

- Mfr. List $1,695.00
- Only $1,517.00

**TD18**

Handheld bulk eraser

- Mfr. List $1,455.00
- Only $1,370.00

**GENEVA**

**PF211**

The PF211 generates 2300 Gauss field intensity and is perfect for erasing cassettes, carts and 1/2" wide open reel tapes.

- Mfr. List $90.00
- Only $77.00

**LPB**

**395**

The handheld 395 eraser has thermal protection and is perfect for erasing cartridges and cassettes.

- Mfr. List $125.00
- Only $112.00

**400**

Tabletop bulk eraser

- Mfr. List $225.00
- Only $201.00

**400**

Handheld bulk eraser

- Mfr. List $145.00
- Only $117.00

**112**

Handheld bulk eraser

- Mfr. List $125.00
- Only $112.00

**QUANTEGY**

**REEL-TO-REEL MEDIA**

BSW carries high-quality reel-to-reel tapes in different lengths. Call today to order the quantity you need.

<table>
<thead>
<tr>
<th>Type</th>
<th>Length</th>
<th>Mfr. List</th>
<th>Only</th>
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</thead>
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<td>406173131</td>
<td>1/4&quot; -2500' 10-1/2&quot; metal reel</td>
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<td>1/4&quot; x 2500' 10-1/2&quot; pancake</td>
<td>$20.00</td>
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<td>456151111</td>
<td>1/4&quot; -1200' 7&quot; plastic reel</td>
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<td>1/4&quot; -2500' 10-1/2&quot; metal reel</td>
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<td>$50.00</td>
<td>$16.00</td>
</tr>
</tbody>
</table>

*Non-inventory item subject to return restrictions.*

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**Reel-to-Reel Recorders**

**OTARI**

**MX5050BIll**

The Otari MX5050BIll 2-track recorder is a quality reel-to-reel machine. Features: very dependable construction; 3-head design; front-panel setup adjustments with built-in oscillator; sophisticated transport with built-in mini auto locator; ±20% pitch control; 37-pin parallel interface; 1/4 track playback.

- Mfr. List $4,452.00
- Only $2,774.00

**TASCAM**

**BR20**

The Tascam BR20 packs outstanding performance and features into a compact, exceptionally easy-to-use recorder. Features: front panel audio calibration controls; exceptionally smooth operation; switchable 15/7.5 ips tape speed (optional 7.5/3.75 speed available); accurate real-time tape counter with locate points; dump edit, manual edit, stop edit and quick cue modes; independent L/R reel size selectors; built in rack mounting and optional remote control; balanced XLR +4 dBm inputs and outputs.

- Mfr. List $3,699.00
- Only $2,774.00

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**LPB**

**400**

Tabletop bulk eraser

- Mfr. List $225.00
- Only $201.00

**400**

Handheld bulk eraser

- Mfr. List $145.00
- Only $117.00
Reelin' In The Years with TASCAM

Still yearning for classic analog sound? TASCAM's got it with the BR-20, which offers a selection of audio production features to allow flexible interfacing, optimum performance and ease-of-use. So if you like the real sound and real features of TASCAM reel-to-reel, BSW is the place to get it.

BR-20 Overview

- Use 11.1" or 10.5" tape reels
- Multi-speed: 15ips and 7.5ips w/±12% pitch control
- +4dB balanced and -10dB unbalanced outputs
- Independent L and R reel size, record function, and monitor select controls
- Parallel port for fader start and event triggering capability
- Spot erase, 3 autolocate points and zero return
- Precision tension servo control system

AMERICAN RECORDER HEAD CLEANER/K161

American Recorder offers complete tape head maintenance for reel-to-reel and other tape machines. S721 is formulated to clean tape heads, tape guides, capstans and pinch rollers. Removes tape oxides, soils and oils with low toxicity and fast drying rate.

The K161 kit includes a 2 oz. bottle of intraclean head cleaner, 100 cotton swabs and a wand style head demagnetizer.

BCS100 100 cotton swabs
Mfr. List $7.00
ONLY $3.00

BCS500 500 cotton swabs
Mfr. List $16.00
ONLY $12.00

BCS1000 1000 cotton swabs
Mfr. List $30.00
ONLY $23.00

GEM box of 100 blades
Mfr. List $10.00
ONLY $10.00

K161 recorder maintenance kit
Mfr. List $40.00
ONLY $35.00

* Non-inventory item subject to return restrictions.

TASCAM a whole world of recording

BSW COTTON SWABS/BLADES/PENCILS

These extra-long style cotton swabs are designed for cleaning tape heads that are hard to reach. Single edge razor works with all splice blocks. These white china markers are perfect for marking. No sharpening required.

COTTON SWABS/BLADES/PENCILS

BC5100 1000 cotton swabs
Mfr. List $7.00
ONLY $3.00

BC5500 500 cotton swabs
Mfr. List $16.00
ONLY $12.00

BC5500 1000 cotton swabs
Mfr. List $30.00
ONLY $23.00

K161 white china markers
Mfr. List $40.00
ONLY $35.00

XEDIT SPLICE BLOCKS/SPLICE TABS

Precision blocks are hand polished. The S3 offers two cutting angles (45° and 30°).

S3/90 offers 45 and 90 degree cutting angles. Each tab has a red non-sticky handle that lets you position the tab easily and let go of the splice without pulling it out of place.

SPLICE BLOCKS/SPLICE TABS

S3 splice block Mfr. List $2.00
ONLY $1.00

S3/90 splice block Mfr. List $7.00
ONLY $4.00

CL1 box of 1000 1/4" splicing tabs Mfr. List $30.00
ONLY $10.00

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**Turntables and Accessories**

**DENON**

**DDPJ151**

The DDPJ151 is Denon's first direct drive digital turntable. Features: high start-up torque – 2.2 KgFcm; digital output – for direct CD, DAT, MD, PC recording; key adjust – maintains the key as the pitch is changed; S-shaped tone arm; removable RCAs and power cord; anti-skate and height adjustments; fine adjust long stroke slide lever; dust cover; 3 platter speeds – 33, 45 and 78 RPM pitch range of ±12%; switchable line level or phono output; 3-way electronic brake effect – normal/medium/slow; dual voltage (115v & 220v).

**ATI**

**P100S**

This preamp offers state-of-the-art specs in a cost-effective enclosure. Quality components allow the P100S to achieve a 90 dB signal-to-noise ratio; channel separation of 60 dB; minimum distortion 0.1%.

**RANE**

**PS1RANE**

The PS1 uses high-quality, audio grade components for a pristine audio path. Features: switchable cartridge loading capacitors; 0.1 dB RIAA accuracy; balanced high-current line drivers; RCA outputs.

**TECHNICS**

**SL1200MKII**

The industry's most popular turntable is without a doubt the Technics SL1200MKII. Two-speed, quartz accurate with fast start-up time, it's the perfect addition to your control room. For production, the pitch change adjustment of ±8% comes in handy. The SL1200MKII includes base, dust cover and tonearm.

**STANTON**

**STR8-80**

New technology for vinyl spinners and scratchers, the STR8-80 is a straight tone arm table that is ready to plug into any analog or digital environment. Features: reverse and motor off functions; 3.5mm line input built-in (for portable CDs, MDs, or any other line source) cable included; key adjust (A.K.A. master tempo); quartz lock (A.K.A. zero pitch); 3 speeds: 33, 45, 78 rpm; selectable pitch adjustment (+/- 8%, 12%); skip-proof straight tone arm; remote start; adjustable feet; S/PDIF digital output; direct drive motor; aluminum platter; target light; blue strobe indicator.

**STANTON**

**VC-1**

This vinyl cleaning system combines the specially formulated cleaning fluid that removes dirt and debris from the grooves and provides an anti-static property to your vinyl. It comes with a professional brush made with a deep unidirectional velvet pile.

**DENON**

**DDPJ151**

 direct drive turntable w/ digital output

Mfr. List $499

ONLY $399.99

**TECHNICS**

**SL1200MKII**

direct drive turntable with pitch control

Mfr. List $790.00

ONLY $567.00

**STANTON**

**STR8-80**

 direct drive turntable with digital output

Mfr. List $449.00

ONLY $324.00

**RANE**

**PS1RANE**

 stereo phono preamp

Mfr. List $229.00

ONLY $173.00

**SHURE**

**M44G/M447/SC35C**

The popular M44 Series models feature a spherical diamond stylus (0.7 mil) with a large-diameter stylus assembly. Tracking force specs are as follows: M44G .75 to 1.5 grams, M447 1.5 to 3 grams. The SC35C features a spherical diamond stylus (0.7 mil) with a large-diameter stylus assembly. Tracking force is 4 to 5 grams.

**STANTON**

**500ALII**

The 500ALII may be the most popular of all broadcast cartridges for its durability and spherical tip that make it suitable for back-cueing. Tracking pressure is for 2-5 grams. The 502SK and 505SKII are designed for scratching with a spherical tip stylus that tracks at 2-5 grams. 505SKII features improved scratching performance. 680ELII is for studio work with less back-cueing and greater fidelity. This elliptical stylus tracks at 2-5 grams.

**SHURE**

**M44G**

 phono cartridge

Mfr. List $100.00

ONLY $64.00

**M447**

 replacement stylus for M44G

Mfr. List $47.00

ONLY $28.00

**SC35C**

 replacement stylus for SC35C

Mfr. List $60.00

ONLY $39.00

**500ALII**

 phono cartridge

Mfr. List $45.00

ONLY $29.90

**502SK**

 phono cartridge

Mfr. List $69.00

ONLY $49.95

**505SK**

 phono cartridge

Mfr. List $36.00

ONLY $24.95

**505SKII**

 phono cartridge

Mfr. List $59.00

ONLY $39.95

**SC35C**

 replacement stylus for SC35C

Mfr. List $40.00

ONLY $24.95

**680ELII**

 phono cartridge

Mfr. List $80.00

ONLY $54.95

**DS800ELII**

 phono cartridge

Mfr. List $55.00

ONLY $34.95

*Non-inventory item subject to return restrictions.*
DENON

DN790R/DN72OR

Denon's top-of-the-line rack mount cassette deck, the DN-790R features the Dolby S noise reduction system. Features: 3-head configuration (long-life amorphous heads); aluminum die-cast head base and dual capstan drive for rock-solid tape transport and absolutely faithful audio recordings; Dolby B, C, and HX Pro; ±12% pitch control; accurate music search; auto bias tuning; unique 3-wire remote control system that makes it a breeze to wire remote control for 6 machine functions (including Play, FF, Reverse, Stop, Pause and REC/REC Mute); balanced XLR and RCA inputs and outputs.

The DN72OR is a lower cost alternative to Denon's balanced output cassette decks. Long head life, speed control, 3rd bias fine adjustment are a few of the tools included for demanding professionals. Features: 2 long-life amorphous tape stable tape transport; real-time counter; wired remote control; headphone output; 19" rack mount brackets; unbalanced RCA I/O.

The Marantz PMD520 is a top-of-the-line, 3-head, independent dual well cassette recorder. Designed with the real-time duplicator in mind, the PMD520 offers cascade play/record capability allowing multiple units to be linked together for long playback and recording applications. Features: fine speed adjust; auto bias loop through outputs; high speed (2X) recording; overlap series recording; one-touch record pause; timer activated record/play; record mute; record balance control; Dolby B, C, and HX Pro noise reduction; 25 pin D-sub remote control port; Marantz RCS remote control protocol; unbalanced RCA I/O. Options: wired remote control (WRC200MKII); balanced XLR kit (XLR510PMD).

With 1/4" stereo mic inputs, the 2-head PMD511 provides a convenient way to mix down the output of one cassette well plus mic inputs (or a line level source plus mic inputs) to a cassette tape in the other well without the hassle and expense of an outboard mixer. This dual recorder also provides other key advantages including automatic record level control and a GPI (General Purpose Interface) port for custom remote control applications. Features: 2X speed recording for high speed duplication; independent dual wells each with its own stereo I/O; pitch control; stereo bar graph meter; linear time counter; Dolby B, C, HX Pro; unbalanced RCA I/O.

The PMD510 is a quality rack-mountable, dual well, 2-head cassette recorder built with the professional in mind. Features: each of the two wells is a completely independent cassette deck with discrete stereo inputs and outputs; ±15% pitch control; stereo bar graph meters; linear time counters; Dolby B, C, and HX Pro; 2 tape heads; headphone output is switchable between deck A, B or A&B; 2-speed dubbing; serial recording; unbalanced RCA I/O.

The PMD500 offers the same basic features as the PMD510 but both cassette wells share transport controls, inputs/outputs and metering.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Mfr. List</th>
<th>Special Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>PMD520</td>
<td>3-head dual independent well cassette deck</td>
<td>$999.00</td>
<td><strong>ONLY $843.00</strong></td>
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<tr>
<td>PMD511</td>
<td>2-head dual independent well deck with mic mixing</td>
<td>$749.00</td>
<td><strong>ONLY $632.00</strong></td>
</tr>
<tr>
<td>PMD510</td>
<td>2-head dual independent well cassette deck</td>
<td>$729.00</td>
<td><strong>ONLY $615.00</strong></td>
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<tr>
<td>PMD500</td>
<td>2-head, dual cassette deck</td>
<td>$499.00</td>
<td><strong>ONLY $421.00</strong></td>
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<tr>
<td>XLR510PMD</td>
<td>balanced XLR I/O kit for Marantz PMD500 Series</td>
<td>$199.00</td>
<td><strong>ONLY $168.00</strong></td>
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<tr>
<td>WRC200MKII</td>
<td>remote control for Marantz PMD500 Series</td>
<td>$189.00</td>
<td><strong>ONLY $187.00</strong></td>
</tr>
</tbody>
</table>

*Non-inventory item subject to return restrictions.*
Marantz makes popular portable cassette recorders used in broadcast, with five models to choose from to match your application. The PMD201 is a mono 2-head machine. Both the PMD221 and PMD222 feature 3 heads for confidence monitoring. PMD222 features an XLR mic input. Features: 7.5 hours recording on 3 "D" size batteries (AC power supply included); modular telephone jack for direct telephone recording and playback; switchable limiter; built-in electret condenser mic and monitor speaker; variable-speed; 3-position mic attenuation; line input and output jacks; cue and review; volume and tone control; automatic or manual record level.

The PMD101 is a slightly scaled-down version of PMD201, yet it offers all of the necessary features of a great professional field recorder. Features: built-in speaker; electret condenser mic; normal or 1/2 speed operation; ±20% pitch control on playback; external mic input; line in/out; sturdy metal chassis. It does not include a VU meter, the R.111 output jack, or adjustable mic level (utilizes built-in AGC). An AC adaptor must be ordered separately with the PMD101 (DA36).

The PMD430 is a quality stereo recorder similar to the 200 series models.

**PANASONIC**

**RQL50**
This handy portable recorder is great for news gathering or taking audio notes. Features: built-in condenser mic and external mic input for high quality recordings; voice activation or one-touch recording; Super Ni-Cad rechargeable battery and charger included for up to 24-hours recording; auto-stop and pause; built-in speaker; cue and review controls; 3-digit tape counter; mini-jack mic input.

**TASCAM**

**302/202MKIII/102MKII**
The Tascam 302 is actually two independent cassette decks housed in a single 3RU chassis. Features: of the two decks is capable of recording individually or simultaneously; auto reverse on both decks; normal/high-speed dubbing; continuous recording or playback; both decks have independent sets of interface connectors and controls; 2 tape heads per deck; independent pitch control; Dolby B and C noise reduction and Dolby HX Pro frequency extension (independent controls per deck); dual LED metering; control I/O and cascade outputs allow linking up to 10 additional machines; unbalanced RCA I/O (each deck).

The 202MKIII dual cassette deck is ideally suited for both dubbing and continuous looping playback applications. It's similar to the 302, but without the independent inputs and outputs/control controls for each deck. Features: dual synchronous record mode (can make two identical copies simultaneously from an external source); normal/high-speed dubbing; continuous auto reverse playback/recording between decks; Dolby B, C and Dolby HX Pro; front panel R & L mic inputs, headphone jack; unbalanced RCA I/O.

The 102MKII is a low cost, rack mount single deck with center mounted transport. Features: Dolby B and C noise reduction; Dolby HX Pro frequency extension; electronic digital tape counter; auto tape selection; BIAS fine adjustment; front panel headphone jack; 2 tape heads; unbalanced RCA I/O.

**TASCAM**

**T-3000**
The T-3000 cassette duplicator is a workhorse system offering extremely fast duplication. The 4x-speed stereo duplication system utilizes a 4-track/4-channel track format. Each duplicator has three cassette mechanisms: 1 and 2 act as slave decks while the third can be used as a master or a slave deck. Features: ferrite record/play heads; auto switchable for normal Type 1 and C/02 Type II cassettes; duplication 7.5 minutes for C-60 cassette.
Analog Recorders/Playback

Reliable, Powerful and Great-Sounding: TASCAM Cassette Decks

If you're looking for the most advanced cassette recorders available today, look no further than TASCAM. Our cassettes cover everything you need for two-track audio production and broadcast facilities. Choose from the no-frills production workhorse, the 112mkII, or the powerful industry standard for professional studios, the 122mkIII. Either way, you'll have the cassette deck you need from TASCAM and BSW.

112mkII/122mkIII Overview

- Dolby B and C noise reduction with HX Pro headroom extension
- ±12% pitch control
- RCA unbalanced I/O (112mkII)
- XLR balanced & RCA unbalanced I/O (122mkIII)
- 3-head high performance design, offering confidence monitoring (122mkIII)
- Parallel port for external or fader start control (122mkIII)
- 400Hz & 10kHz oscillators built in (122mkIII)

Top Seller

TASCAM 122MKIII/112MKII

The high-end 122MKIII is a 3-head deck with uncompromised electronics and a precision FG-servo direct-drive capstan motor for stable performance. Features: audible cue and review; ±12% pitch control; real-time tape counter; two locate points and RTZ function; flexible monitor selector. Dolby HX Pro, B & C noise reduction; cobalt amorphous record and playback heads; gear/clutch-coupled input level controls; built-in 400Hz and 10kHz oscillator adjustment signals; record/mute auto spacing; 25-pin D-sub connector parallel port that allows connection for multi-deck operation or remote transport control; balanced XLR type I/O.

The 112MKII is a basic, 3-head auto reverse deck similar to the 122MKIII. The 112MKII is a classic no-frills workhorse deck similar to the 122MKIII but in a 2-head configuration. Features: servo direct drive capstan motor for high stability recording and playback; pitch control; Dolby B & C noise reduction; Dolby HX Pro frequency extension; 2 memory locations with RTZ function; unbalanced RCA inputs and outputs; optional balanced XLR I/O kit (LA112).

LA112 is the balanced XLR I/O kit for the 112MKII series cassette recorders.

<table>
<thead>
<tr>
<th>Model</th>
<th>Features</th>
<th>Price</th>
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<td>122MKIII</td>
<td>3-head cassette deck</td>
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<td>112MKII</td>
<td>3-head cassette deck</td>
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<td>ONLY $934.00</td>
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<td>122MKIII</td>
<td>2-head cassette deck</td>
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<td></td>
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<td>ONLY $690.00</td>
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<tr>
<td>LA112</td>
<td>balanced XLR I/O kit for Tascam 112MKII Series</td>
<td>Mfr. List $1,110.00</td>
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<tr>
<td></td>
<td></td>
<td>ONLY $82.00</td>
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</tbody>
</table>

TECHNICS

RSTR373/RSTR575

Both the RSTR373 and RSTR575 offer outstanding quality and convenience in a dual cassette format. Features: super quick FF and REW; 24-hour continuous playback; Dolby B, C, HX Pro, and high/low-speed dubbing.

The more advanced RSTR575 adds record/play capability from both decks, up to 3-hour continuous recording and auto tape calibration. Units can be made rack mountable with the RK4 rack kit.

<table>
<thead>
<tr>
<th>Model</th>
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<th>Price</th>
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<td>RSTR373</td>
<td>one record/two play dual cassette deck</td>
<td>Mfr. List $249.95</td>
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<td></td>
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<td></td>
<td></td>
<td>ONLY $279.00</td>
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<tr>
<td>RK4</td>
<td>rack kit for Technics RSTR Series</td>
<td>Mfr. List $55.00</td>
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<td></td>
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<td>ONLY $49.00</td>
</tr>
</tbody>
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* Non-inventory item subject to return restrictions.
Cassette/CD Player Combinations

Popular Combo Decks

**DENON**

**DNT620**

The DN-T620 combines a CD player and cassette deck into a single 3RU body. Features: CD and cassette decks operate independently or dub from CD to cassette - even mix the outputs of both; CD player features a 10-key pad for direct track selection and powerful playback functions; A-B Repeat mode; single/continuous playback mode; variable pitch up to ±12% for both CD and cassette players; auto-reverse cassette deck with Dolby B noise reduction; input source is switchable between internal CD and external line input; 2 tape heads; balanced XLR and unbalanced RCA inputs and outputs.

**DENON**

**DN951FA/DN961FA**

The DN951FA is a robust studio CD player designed for use with Denon's protective CD cart shells. Features: instant cueing aided by a select dial; audition function; single or continuous play; digital display showing remaining or elapsed time in seconds and frames; end monitor feature allowing the operator to preview the ending of a cut; 4-times oversampling; complete remote accessibility; Denon's Auto Track Select feature that reads optional barcode labels for 3 levels of control over play (Track Exclusive, Track Priority and Track Lockout); balanced XLR outs with variable output level. The DN961FA is basically a drawer-loading version of the DN951FA. Once a CD is in the play mode the DN961FA's eject button is disabled, so no accidents occur while the unit is on the air. Note: the DN961FA does not support Denon's Automatic Track Select feature.

**MARANTZ**

**PMD350**

Independent cassette and CD machines housed in a single chassis make the PMD350 extremely convenient to use. Features: separate and mixed tape and CD outputs; separate pitch controls (±12%); front panel headphone jack with source selector; independent fader starts; manual and automatic dubbing; 2 tape heads; large transport controls with LED inset; auto reverse tape deck with Dolby B, C and HX Pro; cue-to-music CD player featuring program, repeat and loop functions; 1/4" L&R mic inputs for tape; unbalanced RCA I/O for tape and CD, digital output for CD. Options: wired remote (WRC200MKII) and balanced XLR kit (XLR350PMD).

**TASCAM**

**CD-A700**

Tascam's CD-A700 lets you to treat CD and cassette as separate machines with independent outputs, or take advantage of integration with enhanced dubbing and extended play capabilities. Features: CD player/ reversible cassette deck in a 3-space rack design; separate pitch controls; CD to cassette dubbing capability; continuous play function; CD Sync function; wireless remote control; balanced XLR and unbalanced RCA outputs dedicated to the CD player; common outputs on both balanced XLR and unbalanced RCA.

**TASCAM**

**DN-C630**

The Denon DN-C630 CD player is built robust for continuous use. Features: instant start; auto cue; cue to audio with adjustable threshold; variable speed; time remaining display; re-cue or next functions; program play with 25 tracks; fade-in function; balanced XLR and unbalanced RCA outputs; coaxial digital output.

**TASCAM**

**DN-C680**

The Denon DN-C680 CD player is engineered to provide the ultimate in flexibility and high performance. Features: program play up to 25 tracks; large illuminated display; track search select; jog/shuttle wheel to perform searches to 1 frame precision; continuous/ single/A-B play modes; finish modes (stop, next, recue); auto cue; auto edit; auto space; pitch control; balanced XLR and unbalanced RCA analog outs; balanced AES/EBU digital out. Options: SMPTE and sample converter kits.
**GEMINI**

**CD110**

This CD player has a lot to offer broadcasters and DJs at a low price. You get instant start (0.02 seconds), cue to music, 3 different time displays and cool effects like reverse and forward stutter as well as repeat mode. The manual controls are excellent with frame accurate searching (1/75 second step), variable pitch control and pitch bend +/- 16%.

**SONY**

**CDP-D11**

The CDP-D11’s up-to-date design includes instant start, auto cue, variable speed operation (± 12.5%), an IR wireless/wired remote controller and connectors for both RS-232C and programmable parallel remote control. Superb audio performance is guaranteed by high-density linear 20-bit D/A converters. Outputs are balanced XLR and unbalanced RCA, plus there are optical and coaxial digital outputs.

**MARANTZ**

**PMD320/PMD321**

The affordable Marantz PMD320 and PMD321 CD players provide a cost-effective CD source for audio professionals. Features: ±10% pitch control; fader start; digital output; 10-key direct track access; headphone jack.

*The PMD321 adds +4 dBu balanced XLR outs and cue-to-music mode. Options: remote control (WRC200MKII).*

**TASCAM**

**CD-150**

The TASCAM CD-150 is an excellent professional CD player for commercial applications. The emphasis is on straightforward specifications with solid engineering rather than bells and whistles. For clubs and fixed installation applications, the CD-150 provides essential pitch control. Auto cue and programmable playback features are useful for PA and radio installations. Features: ±6% pitch control; auto cue; wireless remote control; unbalanced analog RCA outputs.

**For CD Cleaning Supplies, See Page 46**

**For CD Racks See Page 117**

**MARANTZ**

**PMD300 SERIES**

The PMD300 commercial-grade CD player delivers exceptional performance. Features: multi-function programmable cue button enables precise control of playback; 6-digit keypad for ensuring quick access of up to 99 tracks; A-B point audio loop playback; audible frame-by-frame search control; index searching; plays CD-RW discs recorded on CD-RW compatible recorders; pitch control; RC5 remote I/O; unbalanced RCA analog I/O; balanced S/PDIF digital coaxial output.

The PMD331 and PMD340 offer all of the features of the PMD300, plus the following features and interfaces: jog-wheel digital encoder that can control either pitch or enable faster searches for cue points; pitch bend; an instant start feature that provides no audible start delays when releasing a track from pause; 10-second audio buffer for shock resistance; balanced XLR analog I/O; optical digital output; S/PDIF format output; GPI port with fader start.

Exclusive to the PMD340 is a high-durability "CD" mechanism designed to hold up to the heaviest daily use.

**Non-inventory item subject to return restrictions.**
**MARANTZ PROFESSIONAL**

**CDR500**

The new CDR500 offers stand-alone recording from any analog or digital source while also being able to perform high speed (2x) duplication from the internal CD player. A dual playback mode is available that allows simultaneous playback of both the recording and playback drives to separate outputs. Features: easily rearrange tracks before burning a disc; CD-TEXT title creation; memory buffer that prevents the beginning of tracks from getting cut off; menu selectable SCMS copy protection; digital and analog record level and balance control; balanced XLR and unbalanced RCA analog inputs; coaxial and optical digital inputs; unbalanced RCA analog and coaxial digital outputs including coaxial loop-out for connection to other digital equipment; remote control.

**CDR631**

The super affordable CDR631's full complement of digital and analog connections lets you record CDs from a variety of audio sources such as CDs, DATs or even a computer. Features: compatible with pro and consumer CD-R and CD-RW discs; track titles can be saved and edited in CD-TEXT format that can be read on CD-TEXT compatible CD players; memory buffer prevents the beginning of tracks from getting cut off; menu selectable SCMS copy protection; digital and analog record level and balance control; balanced XLR and unbalanced RCA analog inputs; AES/EBU (XLR), coaxial, and optical digital inputs; unbalanced RCA analog and coaxial digital outputs including coaxial loop-out for unprocessed connection to other digital equipment; IR remote control.

**NEW**

**DENON**

**CDRW1500P**

The new Denon dual drive CD recorder/player offers a full range of features for professional audio and broadcast applications. Features: Drive 1 is a CD and HD-CD player; Drive 2 is a CD-RCD-RW recorder and CD player; HD-CD decoding (via drive 1); 24-bit A/D-D/A conversion; digital sampling frequency converter (32 kHz, 48 kHz digital inputs converted to 44.1 kHz; CD sampling frequency); 44.1 kHz direct digital dubbing (CD dubbing compatible); optimum power calibration; 2X dubbing speed; dual playback mode (both drives play at the same time); relay playback mode; CD text and titling compatible; synchronized recording; 2 sets analog outputs; coaxial digital input; two coaxial digital outputs; optical digital input; two optical digital outputs; 2U rack mount kit included.

**HBB**

**CDR850 SERIES/BURNIT**

Exceptional sound quality and a comprehensive feature set make the HBB CDR850 CD recorder a popular choice for broadcast professionals. Not only is it compatible with both write-once CD-R media and the new generation of CD-R rewritable discs, the CDR850 is extremely versatile with multiple recording modes and comprehensive audio connectivity. Features: easy-to-read LED display; 4 one-touch recording modes (2 manual, 2 auto); fade in/fade out; auto pause; switchable sample rate converter; copies all CD, DAT, MD, DVD and DCC track starts; complete user control over SCMS; level margin indicator, with 1 dB increments; 4 levels of erase for CD-RW; auto finalize function; infrared remote control; balanced XLR analog I/O (+4 dBu/-8 dBu switchable balanced analog outputs); AES/EBU and S/PDIF digital I/O (coaxial and optical).

The CDR850PLUS adds a Word Clock input, essential for playback when locking to a master clock source in an all digital system. In addition, it features a balanced AES/EBU digital output which also carries track ID information.

The CDR830 has a full complement of professional features, as you'd expect from HBB, without the high price! Advanced laser assembly delivers consistent, accurate recordings compatible with a wide range of CD players. Features: records on both standard CD-R and CD-RW discs; SCMS-free digital input; double speed CD finalization; analog audio inputs are unbalanced with RCA connectors; digital inputs/outputs are optical and coax.

**MICROBOARDS**

**DSR1200 SERIES**

The DSR 1200 Series is a low-cost, easy-to-use CD recordable duplication system that utilizes superior technology from Microboards Technology and Hoen Singo. With a compact footprint, the DSR series can be used disc to disc, or disc to multiple discs for higher volume requirements. No hard drive is required, because caching image files is done on-the-fly, to multiple writers simultaneously. LED indicators provide easy detection of errors during the record process, preventing bad disc duplication, and monitoring the status of the recording session. The DSR series features one-touch operation for simple CD copying, allowing any novice user to operate it effectively. The DSR 1200 series is available in a number of configurations, from one to eight recorders and features a high 12X record speed. Order today.

**MACROBOARDS**

**DSR1200 SERIES**

The DSR 1200 Series is a low-cost, easy-to-use CD recordable duplication system that utilizes superior technology from Microboards Technology and Hoen Singo. With a compact footprint, the DSR series can be used disc to disc, or disc to multiple discs for higher volume requirements. No hard drive is required, because caching image files is done on-the-fly, to multiple writers simultaneously. LED indicators provide easy detection of errors during the record process, preventing bad disc duplication, and monitoring the status of the recording session. The DSR series features one-touch operation for simple CD copying, allowing any novice user to operate it effectively. The DSR 1200 series is available in a number of configurations, from one to eight recorders and features a high 12X record speed. Order today.

---

*Non-inventory item subject to return restrictions.*
**MICROBOARDS**

**ORBIT/ORBIT II**

The Orbit and Orbit II are low cost, high-performance CD recordable duplication systems that incorporate the ingenuity of Microboards Technology's Champ on series of standalone autoloaders. Orbit's exclusive kernel auto-loading technology, small desktop footprint, and ease of use provides CD duplication requirements with fast, consistent performance. Simply load the 50 disc input hopper with blank media, place the master disc into the CD reader, and Orbit's buttonless operation runs your job automatically. Orbit is perfectly suited for applications including professional audio, software development, desktop publishing and many more. Features: 50 disc input capacity; "Insert and Duplicate" buttonless operation; high-performance auto-loading mechanism.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Mfr. List</th>
<th>Offered Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>ORBIT</td>
<td>8X-speed, 50-disc CD duplicator</td>
<td>$2,495.00</td>
<td>ONLY $2,245.03</td>
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<tr>
<td>ORBIT</td>
<td>16x-speed, 50-disc CD duplicator</td>
<td>$3,195.00</td>
<td>ONLY $2,875.03</td>
</tr>
</tbody>
</table>

**MICROBOARDS**

**AUDIOWRITEPRO/COPYWRITER121**

The AudioWritePro allows you to connect to any analog audio source, such as tape decks or live events via RCA connectors or to a computer via a SCSI II connection. Features: 8X write from computer; 1X write from audio source; stop, play, reverse, fast forward, record and finalize disc; 18-bit A/D converter. You can also order complete packages for Mac or PC (call for software titles).

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Mfr. List</th>
<th>Offered Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUDIOWRITEPRO</td>
<td>CD Recorder</td>
<td>$499.00</td>
<td>ONLY $499.00</td>
</tr>
<tr>
<td>COPYWRITER121</td>
<td>12X CD duplicator with SCSI input</td>
<td>$995.00</td>
<td>ONLY $895.00</td>
</tr>
</tbody>
</table>

**SONY**

**CDR-W33/CDR-W66**

The exciting new CDR-W33 is the first CDR-W Recorder from Sony for professional music applications. It features high-quality, 24-bit AD/DA converters, DSP functions, and CD-TEXT support. It's an excellent choice for your project studio or radio production facility. Features: Super Bit Mapping® recording (records 24-bit quality into 16-bit format); selectable DSP functions available on the analog inputs including: 3-band mid-parametric EQ and limiter; high-quality 24-bit AD/DA converters and a 32 kHz-48 kHz sampling rate converter; Control-S for supplied remote and PS/2 (for FC keyboard) allowing basic control and text entry; CD-TEXT support Disc/Track name can be displayed and entered with alphanumeric characters; 2X Finalizes, fluorescent display; supplied wireless/wired remote control unit; digital and analog record level control; coaxial digital, optical digital and unbalanced analog phono jack out.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Mfr. List</th>
<th>Offered Price</th>
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<tr>
<td>CDR-W33</td>
<td>CD recorder</td>
<td>$799.00</td>
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<tr>
<td>CDR-W66</td>
<td>CD recorder XLR &amp; AES/EBU I/O</td>
<td>$1,275.03</td>
<td>ONLY $999.00</td>
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</table>

**TASCAM**

**CD-RW2000**

Not only is the CD-RW2000 a state-of-the-art CD burner, but it's also a full-featured CD player for live applications. Features: 24-bit AD/DA converters; input RAM buffer helps insure precise ID marks without fear of clipping the start of the audio; gain adjustment on digital inputs; user-definable fades in/out; incremental play and auto ready; 2X, 4X and 8X recording speeds; accurate input signal and time lapse metering.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Mfr. List</th>
<th>Offered Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD-RW2000</td>
<td>CD recorder</td>
<td>$1,125.00</td>
<td>ONLY $899.00</td>
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</tbody>
</table>
CD Recorders and Accessories

**TASCAM CDRPRO**

The CD-R Pro bundle combines CD-R drive, powerful software, fast recording speed and ease-of-use at a low price. By including Mac and Windows software with a SCSI card, it offers the ability to record audio and data CDs and provide 24-bit/96 kHz capabilities with advanced real-time processing. Add to that CD authoring capabilities and QuickTime 4 players for advanced multimedia playback and you have a system ready for action. Also, download MP3 files and burn them directly to Red Book audio CDs with the PC software.

**Features:**
- 8x24 CD-R drive
- SCSI card
- SCSI cable
- 2 blank CDRs
- Software: TCWorks SparkLE, Adaptec Toast, QuickTime 4 (Mac and PC), SEK'd Red Roaster Lite, Adaptec EZ CD Creator, MyNetMedia SonicBurn

**CDRPRO** 8x24 CD recorder bundle for PC and Mac  Mfr. List $749.00  **ONLY $599.00**

**TASCAM CDD4000MKII**

This cost-effective compact disc duplicator from Tascam writes in 1x, 2x, 4x, 6x and 8x speeds from the master deck to the slave deck and meets the needs of any facility requiring a duplication system. Mode Select switch for writing at different speeds; test write mode to check the integrity of the duplication process at the selected speed before execution; audio playback; easy operation via two switches; headphone jack and volume control on each drive.

**CDD4000MKII**  CD duplicator  Mfr. List $1,299.00  **ONLY $999.00**

**Complete CD Mastering Solution**

**ALEYSIS MASTERLINK**

The Alesis MasterLink ML-9600 offers a comprehensive mastering solution by combining a built-in 4.3 GB hard disk recorder, mastering tools and a CD burner in a single package. Now you can eliminate all those extra steps editing your playlists using a computer editor or DAT machine. Features: edit fade-in/fade-out and cropping; record and play with up to 24-bit, 96 kHz resolution; multiple sample rates (44.1, 48, 88.2 and 96 kHz); 16 play lists each with up to 99 songs; DSP editing functions such as compression and peak limiting; balanced XLR and unbalanced RCA analog I/O; digital AES/EBU and S/PDIF I/O.

**ML9600**  CD recorder with 4.3 GB hard drive  Mfr. List $1,699.00  **ONLY $1,399.00**

**HHB CDR80S**

This HHB 79 minute 59 second CD-R is 12X certified, with Phthalocyanine dye and silver reflective layer. It’s optimized for professional audio applications.

**CDR80S**  79 min recordable CD, silver, 12X certified  **ONLY $1.37**

**MITSUI CDR74GOLD**

This Mitsui 74 minute CDR is 12X certified, with Phthalocyanine dye and gold reflective layer. Test results proved ideal performance in all types and speeds of CD-R readers and writers.

**CDR74GOLD**  74 min recordable CD, gold, 12X certified  **ONLY $2.29**

**MICROBOARDS CDR80ZYP**

This Taiyo Yuden 80 minute CDR is 16x certified, with Super Cyanin dye and silver reflective layer. It is compatible with virtually every consumer and pro audio CD player.

**CDR80ZYP**  80 min recordable CD, silver, 16X certified  **ONLY $0.89**

**BSW CD101P**

This CD cleaner kit: 1 oz. cleaning fluid; 3 cleaning pads; 1 cleaning handle; 1 cleaning pad brush.

**CD101P**  manual CD cleaner  **ONLY $7.00**

**CD103A Disc cleaning fluid. 1 oz. spray bottle.**

**CD103A**  CD-DVD cleaning fluid  **ONLY $5.00**

**DISCWASHER FG110**

CD laser lens cleaner includes fluid and replacement pad.

**FG110**  CD laser lens cleaner  **ONLY $14.00**

**STEALTH FG1112**

Rotary-action CD cleaner with fluid.

**FG1112**  rotary CD cleaner  **ONLY $16.00**

**FG1163 Fluid, polish and applicators to remove scratches from your CDs.**

**FG1163**  CD repair kit  **ONLY $9.00**

*Non-inventory item subject to return restrictions.*
EVENTIDE

VR204

This four-channel digital logger is extremely easy to use, and because of its superior audio quality and low cost, is the perfect logging tool for radio stations in any market. Features: records more than 500 hours (20+ days), divided among up to 4 channels, on a single DAT tape; built-in hard disk memory module which allows continuous recording while the tape is playing back an earlier segment, or even if the tape runs out (when the tape resumes recording, the content of the hard disk is transferred to tape, maintaining the complete recorded log); built-in passcode security matrix; up to 4 special event flags that allow you to mark and retrieve important segments as they are recorded.

VR204  4-channel DAT audio logger  Mfr. List $7,495.00  ONLY $6,818.00

TASCAM

DA20MKII

The DA-20MKII is an affordable rack mount recorder with Tascam’s reliability and great-sounding audio. Features: sampling monitor function; Auto ID detection level switching; error rate display function; supports 32, 44.1, and 48 kHz sampling rates; long play mode for up to 4 hours of recording and playback; defeatable SCMS code; full-function wireless remote control; unbalanced RCA analog I/O; S/PDIF coaxial digital I/O.

DA20MKII  DAT recorder  Mfr. List $1,060.00  ONLY $796.00

FOSTEX

D-5

The D5 provides cost-effective DAT mastering with useful professional features. Features: three selectable sample rates and long play mode for up to 4 hours record/play time, 300-times max speed locate and search; ID and TOC functions give you CD-style track information and audio locating. Operators and engineers alike will appreciate the lack of copy ID, the balanced analog I/O, the AES/EBU and S/PDIF digital I/O and a 5-pin DIN connector for wiring remote control functions.

*D-5  DAT recorder  Mfr. List $999.00  ONLY $845.00

SONY

PCM-R300

This low-cost rack mount DAT recorder utilizes Sony’s Super Bit Mapping (SBM) technology for superior sound quality. SBM converts the audio signal from 20-bit resolution A/D into 16-bit signals, allowing it to be recorded to a standard DAT. It incorporates much of the technology used in previous DAT recorders with many new features, including a set-up menu for preference selection with switchable ID6 mode (SCMS). Features: center mounted transport; supports 32 kHz, 44.1 kHz and 48 kHz sampling rates; A/D and D/A monitoring modes; auto head cleaning; unbalanced RCA analog I/O; S/PDIF digital I/O.

PCM-R300  DAT recorder  Mfr. List $1,025.00  ONLY $699.00

TASCAM

DA302

The DA-302 contains two DAT recorders built into one 3U rack mount unit. Features: up to 8 hours recording time on two decks; external control I/O for multiple unit operation; high-speed dubbing capability; append dubbing capability facilitates dubbing from any position on the master tape; continuous recording between deck 1 and 2; simultaneous record capability; independent S/PDIF digital I/O for each deck; digital output format selection (S/PDIF or AES/EBU); unbalanced RCA I/O; Options: balanced XLR analog I/O kit.

DA302  dual DAT recorder  Mfr. List $1,899.00  ONLY $1,424.00

TASCAM

DA40

Are you looking for a very robust and flexible DAT recorder with professional audio interface? Take a closer look at the DA-40 from Tascam. Features: data/shuttle that allows for high-speed cueing, quick program entry and fast locating; switchable automatic input calibration; supports 32, 44.1 and 48 kHz sampling rates; defeatable copy code (SCMS); long record mode; 15-pin parallel remote port; balanced XLR and unbalanced RCA analog inputs and outputs; AES/EBU and S/PDIF digital I/O. Options: wired remote control.

DA40  DAT recorder  Mfr. List $1,399.00  ONLY $1,099.00

SONY

PCMR-500

This machine is a full-function professional DAT machine. Features: high-reliability transport with 4 direct drive motors; jog/shuttle dial for easy operation; high S/N ratio with Super Bit Mapping recording function; 8-pin parallel remote control port; wireless remote control; independent L/R recording level controls; balanced XLR and unbalanced RCA analog I/O; AES/EBU and coaxial digital I/O.

PCMR-500  DAT recorder  Mfr. List $1,765.00  ONLY $1,199.00

DAT MEDIA

BSW carries high-quality DATs. Call today to order the quantity you need.

DAT65  HHB 65 minute DAT  ONLY $6.60

DAT75  HHB 95 minute DAT  ONLY $8.00

DAT125  HHB 125 minute DAT  ONLY $8.50

PDP65  SONY 65 minute DAT  ONLY $6.60

PDP95C  SONY 95 minute DAT  ONLY $8.00

PDP125C  SONY 125 minute DAT  ONLY $8.50
**PRO MEDIA**

**HBB ADAT/HI-8 MEDIA**
BSW carries ADAT and Hi-8.

- **ADAT45**
  - HBB ADAT cassette, 45 min.
  - Mfr. List $11.40
  - **ONLY $9.00**

- **DA113**
  - HBB Hi-8 cassette, 113 min.
  - Mfr. List $13.50
  - **ONLY $14.00**

**HBB CDR805**
This HBB 79 minute 59 second CDR is 12X certified, with Phthalocyanin dye and silver reflective layer. It's optimized for professional audio applications.

- **CDR805**
  - 79 min recordable CD, silver, 12X certified
  - **ONLY $1.37**

**MITSUI CDR74GOLD**
This Mitsui 74 minute CDR is 12X certified, with Phthalocyanin dye and gold reflective layer. Test results proved ideal performance in all types and speeds of CD-R readers and writers.

- **CDR74GOLD**
  - 74 min recordable CD, gold, 12X certified
  - **ONLY $2.29**

**BSW CASSETTE MEDIA**
BSW carries high-quality cassette tapes in two grades. Call today to order the quantity you need.

- **VC10**
  - voice-grade 10 min.
  - **ONLY $ .57**

- **VC20**
  - voice-grade 20 min.
  - **ONLY $ .61**

- **VC60**
  - voice-grade 60 min.
  - **ONLY $ .78**

- **VC90**
  - voice-grade 90 min.
  - **ONLY $1.00**

**MICROBOARDS CDR80ZYPA**
This Taiyo Yuden 80 minute CDR is 16x certified, with Super Cyanin dye and silver reflective layer. It is compatible with virtually every consumer and pro audio CD player.

- **CDR80ZYPA**
  - 80 min recordable CD, silver, 16X certified
  - **ONLY $5.89**

**HBB/SONY DAT MEDIA**
BSW carries high-quality DATs. Call today to order the quantity you need.

- **DAT65**
  - HBB 65 minute DAT
  - Mfr. List $6.45
  - **ONLY $3.24**

- **DAT95**
  - HBB 95 minute DAT
  - Mfr. List $2.79
  - **ONLY $2.00**

- **DAT125**
  - HBB 125 minute DAT
  - Mfr. List $3.49
  - **ONLY $3.30**

- **PDP65**
  - SONY 65 minute DAT
  - Mfr. List $4.99
  - **ONLY $3.30**

- **PDP95C**
  - SONY 95 minute DAT
  - Mfr. List $2.99
  - **ONLY $2.00**

- **PDP125C**
  - SONY 125 minute DAT
  - Mfr. List $6.99
  - **ONLY $5.00**

**HBB/SONY MD MEDIA**
BSW carries high-quality recordable MiniDiscs.

- **MD74**
  - HBB MD MiniDisc, 74 minutes
  - Mfr. List $6.45
  - **ONLY $3.24**

- **MD74MEM**
  - Memorex MiniDisc, 74 minutes
  - Mfr. List $2.79
  - **ONLY $2.00**

- **MD74MEM20**
  - Memorex MD bulk pack – 20 MDs
  - Mfr. List $34.99
  - **ONLY $33.00**

**AMPEX REEL-TO-REEL MEDIA**
BSW carries high-quality reel-to-reel tapes in different lengths. Call today to order the quantity you need.

- **406151131**
  - 1/4"-1200' 7" plastic reel
  - Mfr. List $20.00
  - **ONLY $11.00**

- **406173131**
  - 1/4"-2500' 10-1/2" metal reel
  - Mfr. List $46.00
  - **ONLY $29.00**

- **456151111**
  - 1/4"-1200' 7" plastic reel
  - Mfr. List $20.00
  - **ONLY $16.00**

- **456173111**
  - 1/4"-2500' 10-1/2" metal reel
  - Mfr. List $46.00
  - **ONLY $29.00**

- **456176111**
  - 1/4"-2500' 10-1/2" pancake
  - Mfr. List $25.00
  - **ONLY $16.00**

*Non-inventory item subject to return restrictions.*
DENON DN991R SERIES

For state-of-the-art recording and playback, the DN-M991R cart-style MiniDisc machine from Denon offers exacting playback functions and the highest quality audio.

Features: Hot Start function (load up to 10 tracks into memory); program play with up to 25 tracks; shock memory; keyboard terminal for remote operation and titling; auto level record start; auto track increment (digital or analog); Pre-UTOC function for saving your recordings in case of power failure; relay recording for continuous recording to another DN-M991R; records stereo or mono (74 min stereo, 148 min mono); editing capabilities that include 2 levels of undo and redo; SCMS option (on/off); rotary track selector knob; instant start (less than 0.01sec); auto cue to music; single/all/ repeat; selectable pitch (±1%); cue search (up to 5 cue points per track); 86 frames per sec. for precise cueing/editing; fader start/pause; user adjustable presets; headphone jack; balanced AES/EBU digital I/O; balanced XLR analog I/O; parallel remote port; 25-pin D-sub; RS-232C/422A serial port w/terminator switch.

Options: wired remote.

DN-M991R rack kit
Mfr. List $330.00
ONLY $259.99

DENON DN045R

This unique machine performs digital-to-digital MiniDisc dubs, bypassing the ATRAC compression circuit and preserving the quality sound of the original MD. Features: automatically demuxes data from a fragmented disc so the dubbed copy will have a single, uninterrupted string of data; dubs can be made up to 3.5 times faster than real time; Windows® software is provided to allow MDs to be edited during replication through the RS-422A/232C serial interface board. Note: This machine does not record from an external audio source; internal dubbing only.

*DN045R mini disc duplicator
Mfr. List $4,200.00
ONLY $3,349.00

SONY MDSB5

Sony's third-generation studio MD machine sets a new standard for professional performance. Features: Direct Duplication Link allows you to make a complete copy of compressed signals at high speeds. It's also effective for eliminating fragmentation on heavily edited discs; RAM-TOC edit lets you save your edited recording to a master disc and also conduct temporary editing of a pre-mastered disc; recording times of up to 148 minutes (mono), machine can be controlled via supplied wired remote commander, an IBM keyboard, RS232C, GPI and more; Hot Start up to 10 tracks by using the supplied wired remote commander, PC keyboard or parallel remote port; ±12.5% vari-speed; balanced XLR analog I/O; AES/EBU and S/PDF digital I/O.

MDSB5 mini disc recorder
Mfr. List $3,600.00
ONLY $2,736.00

DENON DN1050R

Denon's DN-M1050R mini disc recorder allows you to take maximum advantage of the MD format. Features: front panel control input for PC keyboard; auto level record start; auto track detection; U-TOC writing; excellent editing functions (divide, erase, combine, move, track name, disc name and undo); track search select knob; jog/shuttle wheel with 1 frame precision; 25-track program play; instant start; play modes including continuous, single and A-B; auto cue; ± 9.9% pitch control in .1% increments; external control terminals (RS-232C/422A switchable, D-Sub 9 pin and D-Sub 25 pin); defeatable SCMS coding; balanced XLR analog I/O, unbalanced RCA analog I/O, AES/EBU digital I/O and S/PDF digital I/O. Options: Hot Start kit for up to 20 tracks (available via third-party manufacturer).

DN1050R mini disc recorder
Mfr. List $1,999.00
ONLY $1,599.00

DENON DN2000R

The DN-M2000R mini disc recorder for disc jockeys provides a wealth of useful features, such as a slider that controls speed, a pitch bend function that controls the beat, a seamless loop playback function and Hot Start play. Features: jog dial search by frame or second; Auto Cue: Hot Start for up to 5 tracks; A-B seamless loop; pitch control in 1% steps up to 8%; instant playback; program play up to 25 tracks; instant recording; Auto Track Increment; U-TOC writing; editing functions such as divide, combine, move and erase; headphone output; unbalanced RCA analog I/O; S/PDF digital input.

DN2000R minidisc DJ recorder
Mfr. List $699.00
ONLY $549.99

SONY MDSJB940

Sony's low priced MiniDisc recorder has a PC keyboard input for typing disc and track names as well as a high-resolution 24-bit A/D converter. Features: ATRAC Type "R" digital signal processing; editing functions with divide, combine and move tracks, and undo last edit; Scale Factor edit; CD text and custom file transfer via control A-1 II; playback pitch control; coaxial and optical digital I/O, much more. Call today for more information on this Sony recorder.

MDSJB940 mini disc recorder
Mfr. List $480.00
ONLY $339.00

SONY MDSJE440

The MDS-JE440 is a low cost, high sonic quality Sony MiniDisc recorder. It incorporates the latest ATRAC™ technology and will provide excellent value for digital recording applications. Features: Wide Bit Stream technology; ATRAC circuitry - Type R; 8x digital filter; 24-bit A/D converter; gold-plated inputs/outputs; sampling rate converter; jog dial; music scan; Shuffle Play/Program Play; Repeat Play (1/All/A-1); name disc/track; time machine recording; 6 sec.; editing features; much more.

MDSJE440 mini disc recorder
Mfr. List $250.00
ONLY $219.00

* Non-inventory item subject to return restrictions.
SONY

SONY

The first two call letters
you'll want to remember.

MDS-E10 Pro MiniDisc Recorder ¥ Introducing the MDS-E10, a 1U-high rack-mountable pro MD recorder offering advanced technology with excellent audio performance, utilizing the newest ATRAC-"R" circuitry. It has SPDIF and optical digital I/O as well as unbalanced analog I/O. Its many features include 10 programmable Hot Starts, auto cue and auto pause, varis speed and a PC keyboard input. In addition to basic editing, the MDS-E10 adds RAM Edit, A-B Erase capabilities and long-record in the ATRAC-3 Rec mode. A sound performer for any studio.

MDS-E12 Pro MiniDisc Recorder ¥ A new addition to the MiniDisc lineup, the MDS-E12 offers all the great features of the MDS-E10 plus some major extra step-up features such as: balanced analog XLR I/O; RS-232C Serial Interface; a Parallel Control Port (GPI); and Control of Record Play relay, which allows multiple units to be cascaded for sequential play or record operation. It's the step-up your studio needs.

MZ-850 MiniDisc Portable Recorder ¥ Player ¥ This recorder means business, combining the excellent sound quality of digital technology with the portable size and convenience of the MiniDisc format. It's the perfect recorder to take on the road for on-location interviews and remote news coverage. Features include a built-in stereo microphone and speaker, remote control index marking for quick search, Voice Operated Recording (VOR) and 148 minutes in mono.

MDB-B5 MiniDisc Recorder ¥ Player ¥ This half rack model is for professional use, maximizing the advantages of MD media, ATRAC and memory technology. The Direct Duplication Link allows you to make a complete copy, including text at 4x speed, and the RAM-TOC Edit lets you decide whether or not to save your edited recording. Hot Start up to 10 tracks and select the next track for playback while listening to the current selection. It's an MD must-have for any radio station.

MZ-R70 MiniDisc Walkman ¥ Recorder ¥ Travel-sized and ready-to-go, this MD Walkman recorder slips easily into a jacket pocket for the ultimate portable playback and recording unit. It features automatic and manual digital record level controls. It has dual headphone jacks, provides up to three hours of recording time on a single AA alkaline battery, and includes remote control with edit functions and titling. It also includes a built-in Sampling Rate Converter and a supplied Digital Connecting Cable for connecting to a preamp, CD or DAT machines, making this model the perfect choice to travel from studio to location.

www.sony.com/proaudio

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Maximize Your Sound with MiniDisc from TASCAM

MiniDisc is one of the most convenient two-track digital recording and playback systems available today. Designed for use in radio broadcast applications, live theater, concert halls, and any other installation where easy-to-use random access capability is required, TASCAM’s MD-301mkII and professional MD-801RmkII offer the digital advantages your facility needs. Available from BSW today.

MD-301mkII/MD-801RmkII Overview

- XLR Balanced and RCA unbalanced analog I/O
- S/PDIF optical I/O
- AES/EBU digital I/O and Word Sync In/Thru (MD-801RmkII)
- Onboard sample rate converter
- Programmable fade in/out capability
- Repeat play, shuffle play and program (up to 25 tracks) modes
- Versatile editing functions w/ undo
- Parallel port and Serial control port (MD-801RmkII)

TASCAM MD301MKII/MD801RMKII

Conveniences for the broadcaster abound on the MD-301MKII MiniDisc recorder. There are timer record/play, auto track and sync record functions and many program play options. Editing is easy with divide, combine, erase, move, title and undo. The MD-301MKII offers a front-panel keyboard connection (PS/2) for text editing. Features: 20-bit AD/DA converters, sample rate conversion facility for digital inputs, ATRAC compression; balanced XLR and unbalanced RCA analog I/O, wireless remote control.

The MD801MKII is a high-end 3U recorder incorporating a "jog" dial and is capable of editing increments as fine as 1/86th of a sec. Features: Word Sync In/Thru; On-board Fs converter; analog output trim control; 20-bit A/D and D/A converters; End of Message notification; up to 12 track instant playback; equipped with IF-8FR remote connector; XLR and RCA analog I/O; digital AES/EBU and S/PDIF I/O; RS232C serial and parallel Interface.

MD301MKII
- Mfr. List $585.00
- ONLY $469.00

MD801RMKII
- Mfr. List $2,699.00
- ONLY $2,199.00

SONY

MD5-E10/MD5-E12

The MD5-E10 is a professional MiniDisc recorder designed to set a new standard for value, with an impressive price/feature set. Sporting a 1U high design, the MD5-E10 packs a lot of performance in a small package, including improved editing features, "Hot" starts, pitch control, long play/record mode and a PC keyboard input for title entry. Features: high-quality 24-bit A/D/D-A converters; Wide Bit Stream technology for yielding 20-bit precision onto 16-bit media; ATRAC type "R" intelligent re-sampling of the encoded signal results in even more accurate sound quality; long play/recording mode; 10 multi-access “Hot Start” memories; variable-speed function ± 12.5%; PS/2 keyboard input, which allows easier access to remote and track/disc titling functions; Time Machine records the first 6 seconds of a recording, even before you press "Record"; Scale Factor Edit allows relative levels of various tracks to be changed after recording takes place; auto cue, auto pause and next track select; auto track marking; Control-5 input for supplied wired/wireless remote; large, easy-to-read fluorescent display; unbalanced RCA analog I/O, coaxial and optical digital I/O. No broadcast remote control capabilities.

The new MD5-E12 replaces the long successful MD5-E11 as the high-end staple, professional MD model, which will find its way into the hands of radio and production professionals. It includes all of the features and functions of the MD5-E10 and adds control interface capability (RS-232C and DB-9 for broadcast remote control capability), plus record/play relay control I/O and balanced analog XLR I/O.

MD5E10
- Mfr. List $999.00
- ONLY $459.00

MD5E12
- Mfr. List $899.00
- ONLY $699.00

HHB/MEMOREX

MD MEDIA

BSW carries high-quality recordable MiniDiscs.

MD74
- Mfr. List $6.45
- ONLY $3.24

MD74MEM
- Mfr. List $2.79
- ONLY $2.00

MD74MEM20
- Mfr. List $34.99
- ONLY $33.00

* Non-inventory item subject to return restrictions.
PORTABLE RECORDERS

DENON
DN-F20R

The DENON DN-F20R portable IC recorder uses up to two IC memory cards as the recording medium, doing away with cumbersome mechanisms and enhancing reliability. Recordings on the DN-F20R are created as sound files in MPEG format, the international standard, which can be ported to a PC for editing and manipulation. Features include: accepts up to 192MB CF media; selectable sampling rate of 24 kHz or 48 kHz; selectable bit rate of 16 kbps to 128 kbps (MPEG) for best audio quality versus recording time; 2 memory card slots for extended playback/recording; supports MPEG 1, MPEG 2 as well as linear PCM (.wav); stereo or mono recording; duplicates media from drive to drive; able to make 2 master recordings at once; up to 9,990 tracks are possible within ten sub-folders; built-in monitor speaker; stereo XLR mic inputs; mic limiter, compression to ensure optimum sound quality. Sonic performance is further enhanced by a high-quality balanced microphone input circuit, which also features switchable phantom power, limiting and ganging. Power is supplied by 'AA' alkaline batteries or by rechargeable Nickel Metal Hydride batteries (supplied), delivering up to 4 hours recording time. A universal 100V-240V charger is also supplied. Connectivity is comprehensive, including balanced XLR mic/line inputs, RCA phono line outputs, headphone jack and coaxial and optical S/PDIF digital I/Os. Of particular interest to radio journalists will be the provision of a USB interface for the real-time transfer of files to laptop editing systems. Basic editing functions are also available on the PORTADISC itself. The PORTADISC is housed in a tough, shockproof case with a large, illuminated display and a built in monitoring speaker and back-up microphone. A memory buffer delivers glitch-free recording on the move, and a 2-seconds pre-record buffer (continuously records audio before record button is pushed); balanced XLR and 1/4" microphone input (with -15/-30 dB attenuator); RCA I/O, coaxial digital output; telephone jack for phone recording/playback.

DENON Mfr. List 51,545.00 ONLY $1,495.00

MARANTZ
PMD680/PMD690

These rugged and compact digital recorders are specially designed for high-quality voice recording. They use flash memory PC cards that come in a variety of sizes. A 440MB card for example, provides you with up to 27 hours of MP2 audio or 1.5 hours wav file uncompressed audio (cards sold separately). Highly reliable PC cards contain no moving parts and are impervious to temperature and shock. Features: compatible with compact flash (using an adaptor) and ATA-size PC cards; saves files as .mp2, .bwf or .wav; time/date generator; marking points; manual or auto record level control; built-in mic and speaker; 2-seconds pre-record buffer (continuously records audio before record button is pushed); balanced XLR and 1/4" microphone input (with -15/ 30 dB attenuator); RCA I/O, coaxial digital output; telephone jack for phone recording/playback.
The PMD680 is a mono recorder.
The PMD690 is a stereo recorder.

MARANTZ Mfr. List 51,499.00

SONIFEX
COURIER

COURIER is a compact, digital audio recorder that uses removable PCMCIA disks (PC cards) to store from 11 minutes to 18 hours of high quality digital audio. Features: recordings can be uncompressed (.wav) or MPEG layer II compression; confidence monitoring; autolock for continuous recording; uses standard rechargeable camcorder-type batteries (adaptor/charger included); two mic/line level inputs (stereo or dual mono) with level control; LED display; built-in audio transfer via standard telephone lines or optionally via ISDN at up to 64 kbps (model COISDN only); on-board non-destructive editing capabilities. Memory cards sold separately.

SONIFEX Mfr. List $3,750.00 ONLY $3,409.00

HHB
MDP500

HHB's new rugged PORTADISC MDP500 minidisc recorder uses ATRAC compression to ensure optimum sound quality. SonK performance is further enhanced by a high-quality balanced microphone input circuit, which also features switchable phantom power, limiting and ganging. Power is supplied by 'AA' alkaline batteries or by rechargeable Nickel Metal Hydride batteries (supplied), delivering up to 4 hours recording time. A universal 100V-240V charger is also supplied. Connectivity is comprehensive, including balanced XLR mic/line inputs, RCA phono line outputs, headphone jack and coaxial and optical S/PDIF digital I/Os. Of particular interest to radio journalists will be the provision of a USB interface for the real-time transfer of files to laptop editing systems. Basic editing functions are also available on the PORTADISC itself. The PORTADISC is housed in a tough, shockproof case with a large, illuminated display and a built in monitoring speaker and back-up microphone. A memory buffer delivers glitch-free recording on the move, and a 2-seconds pre-record buffer (continuously records audio before record button is pushed); balanced XLR and 1/4" microphone input (with -15/-30 dB attenuator); RCA I/O, coaxial digital output; telephone jack for phone recording/playback.

HHB Mfr. List $1,249.00 ONLY $1,054.00

COURIER Mfr. List $2,675.00 ONLY $2,433.00

HANSON Mfr. List $3,750.00 ONLY $3,409.00

SONIFEX Mfr. List $2,675.00 ONLY $2,433.00

MFR SELL SHEET

Mfr. List $2,433.00

Mfr. List $2,675.00

Mfr. List $3,750.00

* Non-inventory item subject to return restrictions.
SONY
MZR70
Sony's smallest ever MD machine now fits in the palm of your hand. The amazing recorder has a wired remote control with editing functions and runs on battery or AC power. Features: dual headphone jack; digital record level control; internal battery compartment holds one "AA"-type battery; "AA"-type NC-WMAA rechargeable battery included; 40-second shock resistant memory; high-quality recording with digital automatic gain control; sample rate converter; AC adaptor and digital connecting cable supplied.

MD REPORT JUNIOR
The MD Report Junior offers an easy professional upgrade for your portable MiniDisc or DAT recorder. Simply connect your device, keep it in place with the supplied harness, and your portable is now able to operate at a professional level with high-quality XLR mic preamps. Features: two balanced stereo inputs on Neutrik XLR connectors; 48-volt phantom power; adjustable mic gain; headphone amp with level control and nylon carry bag.

CREW
MDJR portable recorder interface with XLR I/O Mfr. List $399.00 ONLY $299.99

TASCAM
DAP-1
Looking for a powerful tool for in-the-field reporting? This portable DAT recorder offers Tascam's quality electronics and high-end features in an extra strong, durable case. The DAP-1 has two heads and two direct drive motors, giving it one of the best transports in its class. And the audio is flawless. State-of-the-art A/D and D/A converters give it superb sound quality. Features include: 32, 44.1 and 48 kHz sampling rates; quick-charge battery system with 2 hour record/play time; switchable phantom power; switchable mic limiter and 20 dB pad; high-impact metal reinforced casing; balanced XLR mic/line and unbalanced RCA line inputs; unbalanced RCA outputs; S/PDIF digital I/O with SCMS free recording. Options include: external charger (CBD1) and handy carrying case (CSD1).

ACE
KEB CARRYING BAGS (SEE ALSO PAGE 100)
KEB20 7.5"x9.5"x2.5" carrying bag Mfr. List $25.00 ONLY $22.00
KEB22 9.5"x12.5"x3" carrying bag Mfr. List $25.95 ONLY $22.00

ARRAKIS
DIGILINK IV
Digilink IV (DL4) allows you to store programming on hard disk and automate audio playback as well as control satellite feeds and live broadcasts with the help of your Windows computer. The DL4 is ideal for a 2-studio radio station with On-Air and Production/Scheduling studios. With simultaneous triple play and record, the On-Air studio has dual overlapping play of audio while the Production/Scheduling studio features play and record. Two Studio System Components: (1) DL4 Workstation with 3 Play, 1 Record, 105 hours audio; 7-input play switcher; 7-input record switcher; (1) Automation Software (for On-Air studio); (1) Scheduling Software (for Production/Scheduling studio).

* Non-inventory item subject to return restrictions.
360 SYSTEMS

SHORT/CUT

Short/Cut Editor replaces two-track reel-to-reel tape machines for fast editing of single or dual channel audio. It offers all the features you'll need to capture and edit audio for talk radio, call-in clips, news actualities, promos and spots. Features: split-second editing; familiar tape recorder interface; high-resolution waveform display; real-time editing including cut, copy, insert, erase; insert record; crossfades; fade-in/fade-out; gain changes and ramping; one-touch instant record captures incoming audio in any mode; title and cut select with built-in keyboard; assign cuts or edited clips to 10 Hot Keys per Directory; 10 Directories with password-protect; internal hard disk stores 4 hours of audio; optional external Zip® drive for low-cost copies and archival; reads and writes WAV, BWF and AIFF files on MAC or PC disks; weighs only 12 pounds (with built-in speakers, headphone amp and a mic level input, it makes a very portable workstation); built-in D-NET File Transfer Network capability lets you transfer finished audio to DigiCart/IIs and Instant Replays; balanced XLR analog I/O (left channel input is switchable mic/line level); AES/EBU digital I/O; IEC-958/II input; D-NET output.

SC180-3 Short/cut audio editor - 4 hours audio storage
SCZIPDRIVE Zip drive for 360 Systems SC180-3
GTTPSC travel bag for 360 Systems SC180-3

INSTANT REPLAY

Instant Replay re-defined the term Hot Keys, with an easy-to-use control panel that offers rapid fire playback of 50 cuts, ordered in 10 different banks. Now Instant Replay 'Dash E' expands your ability to select the exact audio bite, or portion of an audio file that you want with 'Top and Tail' trim editing. Up to 24 hours of stereo audio can be stored on Instant Replay's self-contained hard drive. Features: stores up to 1,000 audio cuts of various lengths; records with a start on audio feature for tight starts; "top and tail" editing of sound files; built-in keyboard locates cuts by name/number; ten banks of 50 Hot Key buttons (find a cut by typing its name or ID number, or, if it has been assigned to one of the 50 Hot Keys, just hit its associated key for absolute instant access); internal hard disk stores 24 hours of random access audio; external parallel port for outboard removable storage drives or to print cut lists, bank maps, playlists and legend overlays to label Hot Keys; jump from one cut to another with completely seamless transitions; audio cuts can also be selected as part of a play list for sequential playback; different play lists can be stored for each of the 10 banks, and can be recalled for playback or editing at any time; built-in D-NET File Transfer Network capability lets you transfer audio files, including the cut names and running times to DigiCart/IIs or other Instant Replays; balanced XLR analog I/O; AES/EBU digital I/O.

DRS54-E Instant Replay with 24 hour storage

NOW WITH TOP AND TAIL EDITING

ONAIRSUITE

Order the BSI ONAIRSUITE: Includes all 4 titles (WAVESTATION30, WAVECART30, STINGER20 and SPEEDY30)

BSI WAVESTATION 3.0

WaveStation is state-of-the-art on-air digital audio automation software for radio stations. It's easy to operate and runs on an ordinary PC equipped with Microsoft Windows® (95, 98, 2000 or NT). It utilizes Microsoft standard audio files (compressed or non-compressed), MP2, MP3 files (via CODEC), and TM Century files. Wave Station can run entirely automated or as a live-assist system and will easily interface with your satellite receiver for satellite automation. It can import program log data from virtually any traffic management or music scheduling system.

WAVESTATION30 automation software

WAVECART 3.0

WaveCart software replaces radio station cart machines, providing you with lightning fast digital audio playback and true segues and overlap, even on a single audio card. It runs on any audio-equipped PC and can be controlled with your computer mouse, your keyboard or even the start button on your audio console. WaveCart is easily networked, allowing you to transfer audio files with their imbedded label information between PCs or even to other stations via e-mail.

STINGER 2.0

Stinger software provides instant playback of up to 288 PC audio files with thousands more audio files quickly available via a simple click of your mouse. Features: drag-and-drop loading of files to on-screen buttons; touch-screen compatibility or operation via PC keyboard; resizeable main screen automatic button resizing; jocks can have their own custom file "collections"; individual cuts can be color-coded for quick recognition; uses standard WAV files compatible with files from WaveCart and WaveStation.

STINGER20 instant playback software

SPEEDY 3.0

Speedy 3.0 is a professional automated CD-to-PC audio transfer system that allows you to quickly and automatically dub songs from CDs to your PC. Speedy 3.0 can trim unwanted silence from the front and back of files; normalize recorded levels and can even access multiple online CDDB audio databases to retrieve track titles and other album information automatically.

SPEEDY30 instant playback software

ONAIRSUITE includes all four software titles

* Non-inventory item subject to return restrictions.
So check this out –
Instant Replay® puts 1,000 of your favorite noises right in front of you, ready for instant playback. No other audio player makes it so easy to be spontaneous and creative. It’s fast, it’s easy, and it’s fun. Here’s the deal. One Instant Replay can store over 24 hours of stereo sound. That’s 24 hours of sound effects, spots, promos, even entire songs – anything – and you can play any of them back instantly by pressing one of 50 Hot Keys! There’s no need for training. It’s self-contained and works right out of the box – just push the buttons and go!

Log on 360systems.com®
Get the Story

Now with Editing!
360 SYSTEMS
DIGICART/II

360 Systems DigiCart/II Plus sets the standard for cart replacement in television broadcast and radio production applications, featuring amazing performance options as well as a wide range of control choices. Features: flawless digital recording, either in linear mode or with Dolby AC-2 data reduction for extended times; stores up to 232 hours of stereo audio on internal hard disks and up to 48 minutes on each removable Zip disk; playback options range from locate and play of a single cut to automated play lists; RS-422 interface for TV master control automation; playlists range from simple strings of cuts selected “on-the-fly” to complex groups of linear or rotating stacks linked together; back-to-back playback of audio cuts is absolutely seamless; cuts can be cued up while a cut is being played back; non-destructive editing of heads, tails, fades and gain; balanced XLR analog I/O; AES/EBU and IEC-958 II digital I/O; GPI/O; RS-422, ext. sync reference; D-NET File Transfer Network for high-speed transfers of audio files between machines. The RC205 mini-keyboard provides remote access to all control functions and makes cutting label fast and easy. It also provides instant access to up to 104 “Hot” Key presets. The RC210 play-only remote allows access to all playback functions, but prevents access to all destructive functions. It provides instant access to 16 “Hot Key” presets. Includes one 25 ft. (7.5m) 9-pin serial cable. RC220 (not shown) is a full-function remote similar to the RC210. The DigiCart/II travel bag is fully padded, shoulder strap, padded carrying handle and outside pocket.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Mfr. List</th>
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<tr>
<td>2750-15</td>
<td>hard disk recorder - 116 hours audio storage</td>
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<td>$3,815.00</td>
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<td>hard disk recorder - 154 hours audio storage</td>
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<td>$4,461.00</td>
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<td>mini-keyboard remote for 360 Systems 2750</td>
<td>$130.00</td>
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<td>remote control “playback only” for 360 Systems 2750</td>
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<td>RC220</td>
<td>full-function remote control for 360 Systems 2750</td>
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<td>GBTPD</td>
<td>digicart travel bag for 360 Systems 2750</td>
<td>$105.00</td>
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</tr>
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</table>

**TELOS**

**7000-0000**

For real-time audio encoding, the Audioactive MPEG real-time encoder is the most professional solution on the market. This hardware and software system makes it easy to provide both real-time and stored audio streams for Internet and Intranet applications. The Telos Audioactive MPEG encoder provides outstanding audio quality and reliability. The hardware encoder is equipped with pro-grade A/D converters, balanced analog (XLR) or digital (AES/EBU) inputs and powerful DSP MPEG Layer 3 encoding in a rack-mount chassis. Outputs are TCP/IP or RS-232. Bundled as a complete streaming solution, it ships with the Audioactive NetSuite CD-ROM featuring the Audioactive Multimedia Driver, Microsoft NetShow Windows Media Server and the Audioactive Production Studio Pro. Pricing is economically based on a one-time purchase and not restricted by fees charged on a per-listener (per-stream) basis.

<table>
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<td>MPEG hardware encoder</td>
<td>$2,800.00</td>
<td>$2,380.00</td>
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</tbody>
</table>

**WIREREADY**

**NEWSREADY32**

NewsReady32 is a cutting-edge, 32-bit Win95/NT newsroom system based on the original NewsReady and RadioReady Systems used by over 2500 radio stations. It integrates and organizes your wire services, news scripts, phone contacts, school closings, and audio bits all on the same screen and offers built-in word processing and audio editing. Digitally record and edit all your phone bits and automatically time-record all your satellite activity feeds. Use with all Windows-compatible sound cards. Requires Pentium computer.

*WNRNEWS3210* Newsready32 software, single user
Mfr. List $2,495.00 ONLY $2,157.00

*WNRNEWS32-10PK* Newsready32 software – 10 user pak
Mfr. List $9,995.00 ONLY $8,638.00

**WIREREADY**

**MUSICREADY**

Simple and affordable, MusicReady software lets stations record and store hundreds of songs, commercials, IDs, liners and other audio files on standard IDE or SCSI hard drives. The software package (SOMR1) includes audio cards. Features: supports multiple hard-drives; simultaneous play, record, overlap, crossfade and voice track with 3 audio cards. The MusicReady system runs on standard Pentium Win95/98 computers with 128MB RAM and ample drive space. If supplying your own computers, call WireReady for slot/setup requirements. Optional WireReady-built workstations are also available. Call for prices.

*SOMR1* Musicready software
Mfr. List $5,995.00 ONLY $5,181.00

**Modular Multitrack Recorders**

**360 SYSTEMS**

**TCR8/TCR4**

TCR8™ is a full-featured Master Recorder designed to produce the highest level of audio quality, coupled with rock-solid performance in professional timecode-based applications. Designed primarily for premium quality acquisition, midown and playout, the TCR8 will emulate most popular digital and analog VTRs and DAT machines. It's an ideal replacement for maintenance intensive tape-based multitracks as well. DVD-RAM is now included and provides a low cost, high-density archival solution that allows random access and real-time audio playout of selected tracks. Features: large display with cut titles, status indicators and detailed menu prompts; supports all frame rates in both NTSC and PAL formats; sample rates extend from 44.1 kHz to 96 kHz; standard internal hard disk provides 2 hours of 8-track recording (optional drives can extend storage capacity to over 96 hours of track time); includes balanced XLRs for analog I/O; AES/EBU digital I/O, LTC and VITC, sync to word clock, AES black, or video reference signals; RS-422 P2 protocols for VTR emulation (emulates BVW-75, DVW-500 and PCM-7040); GPI/O; control I/O for keyboard titling and multi-machine remote control. Production/Editing: cut-copy-insert editing with tape-style scrub; jog/shuttle; auto locate; auto punch; read-modify-write; vspeed; crossfades; offsets; individual track slip; and more. Storage: supports hard disks of unlimited size; 9 GB drive included; drive bay supports high-density SCSI removable disks and hard disks; rear panel SCSI allows use of external drive arrays; 250 MB Zip drive is included. The TCR4 is an economical 4-track digital recorder with 9 GB hard drive.

<table>
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<td>TCR4</td>
<td>4 track recorder hard drive</td>
<td>$4,950.00</td>
<td>$4,526.00</td>
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<td>TC508</td>
<td>18 GB internal hard disk for 360 Systems TCR8/4</td>
<td>$525.00</td>
<td>$480.00</td>
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<td>TC506</td>
<td>36 GB internal hard disk for 360 Systems TCR8/4</td>
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</table>
**ALESIS**

**ADAT HD24**

Designed and built exclusively for recording music, not data, the Alesis ADAT HD24 is the first hard disk recorder to match ADAT's legendary performance and affordability. The ADAT HD24 system features two hot-swappable drive bays (one drive is included for 40 minutes of 24-track recording), high 24-bit, 96 kHz resolution and easy integration into any existing ADAT system. Features: 44.1 kHz and 48 kHz internal sample rates; removable IDE computer drives; 24 analog inputs and outputs (+4 dBu, 1/4" TRS), 24 channels of ADAT optical I/O; MIDI I/O, MIDI OCE, Ethernet connection, ADAT Sync I/O; internal editing capabilities including cut, copy and paste; remote control.

*AHD24 24-track hard disk recorder
Mfr. List $2,499.00 ONLY $1,999.00*

**TASCAM**

**MX2424**

Tascam's most flexible multitrack recorder can provide 24 tracks of recording at up to 48kHz, or it can be switched into a 12-track 88.2 kHz or 96 kHz recorder. Also, the MX-2424 can record to Macintosh (SDII format) or PC (.WAV format) hard drives, allowing you to later export to the computer for other functions. Standard I/Os are two-channel S/PDIF and AES/EBU and balanced analog I/O. You may also install one of three optional 24-channel digital I/Os or analog I/O to customize the MX-2424 for your studio. It ships with a 9 GB internal drive, which equates to roughly 45 minutes of recording time across all 24 tracks. If that's not enough, you can slave more drives off the SCSI Wide port on the back panel, or build a drive into the front panel standard drive bay. The front panel can also be used to install a approved DVD-ROM drive for backup, using increasingly affordable DVD-ROM media (optional). Features: unlimited virtual tracks; 100 levels of undo; non-destructive or destructive recording modes; SMPTE synchronization, Word Clock, MIDI time code and MIDI machine control; the included ViewNet MX software runs on either Mac or PC, and connects with standard ethernet lines to provide DAW style editing, as well as system set-up screens and virtual track management; AES/EBU and S/PDIF 2 channel I/O. Options: digital I/O cards offer 24 channels of TDI/F, Lightpipe or AES/EBU I/O; analog I/O card (the analog and digital slots are separate, so the analog option and one digital option may be installed simultaneously); RC-2424 remote control.

*MX2424 24-track hard disk recorder
Mfr. List $3,999.00 ONLY $3,599.00*

*IFAN24 analog I/O 24 channels, A/D-D/A converters for MX2424
Mfr. List $1,699.00 ONLY $1,487.00*

*IFAE24 AES/EBU digital I/O 24 channels for Tascam MX2424
Mfr. List $999.00 ONLY $874.00*

*IFAD24 ADAT Lightpipe optical I/O 24 channels for MX2424
Mfr. List $499.00 ONLY $437.00*

*IFTD24 TDI/F digital I/O 24 channels for Tascam MX2424
Mfr. List $499.00 ONLY $437.00*

*RC2424 remote control for Tascam MX2424
Mfr. List $1,599.00 ONLY $1,385.00*

*MMB24-24 24-track remote meter unit for mx2424
Mfr. List $1,099.00 ONLY $813.00*

**ALESIS**

**ADAT-LX20**

The ADAT-LX20™ provides an economical solution for capturing the power of the award-winning ADAT™ recording format. Even though the LX20 is the most affordable ADAT, it offers the same 20-bit ADAT Type II digital recording format as other higher-end models, making it capable of producing professional-quality recordings. The LX20 is compatible with all ADAT-model recorders as well as third-party products like digital consoles, interfaces and more. The LX20's five specialized locate points, used with its Auto Play, Auto Return, Auto Record and Auto Loop functions, are designed to help you record quickly and easily. For standard analog interfacing like connecting to a mixer, the LX20 includes sixteen unbalanced -10 dBV inputs and outputs on phono (RCA) connectors. The LX20 also offers the ADAT Optical Digital Interface, which carries up to eight audio tracks at a time completely in the digital domain and allows you to connect to other ADATs in a system or dozens of devices that use this innovative transfer protocol.

*ADAT-LX20 8-track recorder
Mfr. List $1,399.00 ONLY $999.00*

*BRC24 remote control for Alesis ADATlx20
Mfr. List $1,499.00 ONLY $1,385.00*

**TASCAM**

**DA-88**

Tascam's renowned DA88 digital 8-track recorder utilizes the readily available Hi-8, 8mm tape format, offering CD quality recordings up to 100 minutes in length on a standard 120 minute tape. Features: rugged transport construction; rugged and reliable tape format; gateless, seamless punch in/out with advanced digital crossfading technology; variable track delay; very easy to use with large transport buttons; super fast FF/REW time (entire tape in just 80 seconds); locator jog/shuttle wheel; up to sixteen machines can be locked together for 128 tracks. Optional accessories, I/O boards and controller available.

*DA88 8-track recorder
Mfr. List $5,199.00 ONLY $3,900.00*

*IFBS2D S/PDIF digital interface
Mfr. List $1,499 ONLY $1,138.00*

*IFAE8 8 channel TDI/F-1 to AES/EBU converter
Mfr. List $599 ONLY $449.00*

*RC8013 single machine controller for DA88
Mfr. List $245 ONLY $184.00*

*SY88 synchronizer board for DA88
Mfr. List $920 ONLY $691.00*

**HHB**

**ADAT45**

HHB ADAT cassette, 45 minutes
Mfr. List $11.00 ONLY $9.00

**ADAT45 45 minute ADAT tape
Mfr. List $59.00 ONLY $49.00**
FOSTEX

VF-16

Fostex's new 16-track digital multitracker combines state-of-the-art hard disk-based digital recording with easy-to-use and precise controls. The recording engine features a total of 24 tracks (the additional 8 ghost tracks being available for multiple takes) and simultaneous 16 track recording to an internal E-IDE hard disk. Mixing functions start with 60 mm faders for all 16 input channels and master; 3-band EQ with parametric mid channel compressors and master compressor, 8 mic inputs (2 with XLR, inserts and 48-volt phantom power); two effects sends and two auxiliary sends per channel switchable pre/post; and 99 mix-scene memory. Plus the VF-16 comes with two independent digital multi-effect processors!

VF-16 16 Track Digital Multitrack Recorder
Mfr. List $1,499.00  ONLY $999.00

TASCAM

PORTASTUDIO 788

The 788 Digital Portastudio's nonlinear editing capabilities and built-in high quality effects make it a totally self-contained digital studio – just hook up a CD burner (sold separately) to the SCSI port, and your recording is ready to go. The various inputs on the 788 can accept mic and line levels. Stereo outputs for mixing down, monitor outputs and AUX outputs are all included on individual connectors. Also, MIDI In and Out jacks are provided for syncing your audio tracks to synthesizer and software-based sequencers. Features: 8-track, 24-bit hard disk recorder workstation; 250 virtual tracks for alternate takes; built-in high quality digital effects: reverb, chorus, distortion, multi-effects and more; 24-bit uncompressed sonic fidelity; 24-bit A/D, D/A converters; non-destructive editing with 999 levels of undo; 3-band EQ with true parametric mid; 5/PDIF digital output for digital mixdown; SCSI port.

788 8-track recorder
Mfr. List $1,149.00  ONLY $899.00

CDR788  CDR recorder for Tascam 788
Mfr. List $399.00  ONLY $299.00

YAMAHA

MD8

The Yamaha MD8 multitrack MD recorder combines the superior audio quality and random access capabilities of the MiniDisc format with a flexible, 12-input mixer to form an extraordinary portable multitracker. Features: up to 8 tracks simultaneous recording and playback; ability to ping-pong all eight tracks down to one or more tracks; 8-channel analog mixer with variable gain and 3-band EQ with mid sweep on each channel, 2 AUX sends (with stereo returns), pan and fader on all input channels; fast and accurate search and locate, precise auto punch in/out with up to 99 takes, disc and song; editing: jog/shuttle dial for quick and easy song location and edit function access; pitch control ± 12%; full MIDI support; part copy, track copy, song copy, song renumbering, tempo map and other handy editing functions; balanced XLR inputs (with phantom power), phone-type jacks and insert I/O jacks on channels 1-2, unbalanced phone-type input jacks on channels 3-8, direct track outs.

MD8 8-track minidisc recorder
Mfr. List $1,399.00  ONLY $1,099.00

YAMAHA

AW4416

If you're looking for the highest quality digital recording (without compression) and incredible ease of use, you'll want the Yamaha AW4416. Start with your choice of 16-bit or 24-bit resolution (either 44.1 or 48kHz). When you choose 16-bit, you get up to 8 tracks of simultaneous recording and 16 tracks of simultaneous playback. With 24-bit, you can have up to 16 tracks simultaneous recording and playback. Choose Manual or Auto Punch I/O, and since you can record up to 8 virtual tracks for each of the 16 tracks, you always have the material on hand for a hot mix every time, which you can mix down to the available stereo master tracks. There's plenty of recording space: 12 GB standard (up to 64 GB or enough for as many as 50,000 songs optional). Plus you can burn it directly to CD with the included CD recorder. Besides the incredible mixing functions, you also get powerful effects controls: great EQ (4-band parametric), plus two powerful digital effects processors. It's a complete recording studio in one - at a price every recording artist can afford. Features: 16-track recording (6 virtual tracks) to internal hard disk; 24-bit recording with no compression and 32-bit processing; 12 GB internal hard disk drive; built-in CD-RW drive; 44 channel, 8 buss and 8 AUX send mixer; 2 internal multi-effects processors; channel/ED/ dynamics/delay/attenuation/phase/insert; 8 sample trigger pads with 2 banks (max. approx. 90 seconds); scene memory and auto-mix functions; Track, Part, Region and Song editing; standard play/record transport functions plus jog with shuttle; 99 mark points per song plus Quick Locate and Repeat; manual and auto punch I/O; Word Clock I/O; MIDI In/Out/Thru; MTC IN/OUT; To Host, SCSI; mouse and foot switch connectors; 2 Mini-YGDAI card slots for multiple digital and analog I/O options.

AW4416CDHD 16-track recorder with cd burner/hard drive
Mfr. List $3,799.00  ONLY $3,299.00

* Non-inventory item subject to return restrictions.
DIGIDESIGN
DIGI001
Digi 001 is a complete audio/MIDI hardware/software solution in one box. Digi 001 comes packed with all the I/O options you need - eight analog inputs, eight analog outputs, eight channels of ADAT optical I/O and two S/PDIF I/O channels - all at 24-bit resolution. It also comes with a one-in, one-out MIDI interface built in, a footswitch input for QuickPunch control, and an additional pair of analog monitor outputs and a headphone output with separate volume control. Two of the eight analog inputs on Digi 001 include high-quality microphone pre-amps with gain control and phantom power, reducing the need to incorporate a separate mixer. Instead, you can plug in an instrument or microphone, set the levels and start recording! Because Digi 001 is an integrated system featuring hardware and software, both by Digidesign, there is no need for concern over compatibility issues. Everything about Digi 001 has been designed and tested as a complete unit in one location. With Pro Tools LE software, this cross-platform package is ready to plug in and use. Software Features: up to 24 tracks of 16- or 24-bit audio; complete integrated MIDI features; five inserts and sends per track for effects; 16 internal mixing busses, full dynamic and breakpoint automation supports Real-Time AudioSuite (RTAS) plug-ins and support of all Pro Tools automation modes except trim.

**DIGI001**
PC audio card/software package
Mfr. List $995.00
ONLY $970.00

DIGIGRAM
VX222
This high-quality, versatile sound card for your PC computer includes balanced analog inputs and outputs with 24-bit converters (as well as digital input/output in AES/EBU or S/PDIF formats). The VX222 is more than just another multimedia sound card. It boasts Digigram's famous reliability and pro performance. The VX222 is designed to work with a wide variety of applications using Microsoft's WAVE protocol (under Windows 95/98 and Windows NT 4.0) and the MacOS Sound Manager (under MacOS 8.x). An ASIO driver is available for 24-bit operation with compliant applications.

VX222 PC/Mac audio card
Mfr. List $549.00
ONLY $432.00

DIGITAL AUDIO LABS
CARDDELUXE
CardDeluxe gives you the ability to record up to 24-bit, 96 kHz audio. Features: analog two channel I/O via 1/4" TRS connectors; S/PDIF digital I/O via RCA connectors; 8 to 24-bit resolution; 22 to 96 kHz sampling rate; +/-10 balanced/unbalanced operation; full duplex; 4 channel operation using both analog and digital I/Os; slaving of multiple CardDeluxes to a single sample clock; Windows 95, 98 and NT drivers; DirectX support.

CDX01 24-bit PC digital audio card
Mfr. List $995.00
ONLY $447.00

ECHO
MONA
Monas joins Layla, Gina, and Darla as the latest in high-quality recording products from Echo. Its four universal inputs allow you to connect a variety of sources from mic to line level directly into your computer, bypassing external equipment that can add noise and distortion to your recordings. Using the latest generation of 24-bit 96 kHz converters, Mona offers the highest dynamic range and lowest distortion available. Features: dynamic range of 116 dB (A-weighted) on Inputs and Outputs; 4 high-quality mic preamps with phantom power; trim control and meters on each input; 0 outputs with XLR and RCA connectors; headphone out with level control; ADAT optical and S/PDIF digital inputs; drivers for Windows 95/98/NT, Mac and BeOS.

MONA 24-bit PC/Mac digital recording interface
Mfr. List $995.00
ONLY $799.00

**DIGIToolbox XP**

The Direct Pro 24/96 is the benchmark of Aardvark's revolutionary concept in computer hard-disk recording, combining the best features of digital mixers, studio-quality effects, dynamic signal processing and microphone preamps. It's equipped with DSP-based effects, which allow for monitoring with effects while recording, without any latency. This latency is unavoidable when using plug-in effects or native software effects on input. The Direct Pro 24/96 effects provide a real-time recording environment that rivals the real-time performance of outboard compressors, 3-Band EQs and outboard mixers! The DSP-powered Control Panel mixer software provides many of the features of an automated digital mixer. It includes a drag-and-drop digital patchbay, digital peak metering, VU meters, Record FX switch and Presets for snapshot recall of any setting on the entire Control Panel mixer. The 24/96's superior sound quality comes from its low jitter clock, shielded 24 bit/96 kHz converters and uniquely shielded PCI card, all of which are specifically designed to keep out computer noise. The front panel of the Direct Pro 24/96 features four balanced analog inputs and a convenient headphone jack. The rear panel has four balanced 1/4" analog outputs, two unbalanced RCA outputs as well as MIDI I/O to provide seamless audio and MIDI integration between hardware and software. Digital S/PDIF I/O on the 24/96 host card allows for true 24 bit stereo digital transfers.

**DIRECTPRO24-96**
digital audio interface
Mfr. List $699
ONLY $499.00

**DIGIToolbox XP**

Audiomedia III is the centerpiece of DigiToolbox XP, Digidesign's simplest cross-platform solution for audio production. The Audiomedia III card has established itself as the most popular high-quality interface card. Audio enthusiasts of all disciplines use this simple PCI card to get better than CD-quality audio into and out of their computer. With 18-bit analog stereo I/O and 24-bit S/PDIF digital I/O, Audiomedia III makes it easy to interface with a small mixer or transfer DAT recordings. Now with Pro Tools LE software, this cross-platform package is ready to plug in and use. Software Features: up to 24 tracks of 16- or 24-bit audio; complete integrated MIDI features; five inserts and sends per track for effects; 16 internal mixing busses, full dynamic and breakpoint automation supports Real-Time AudioSuite (RTAS) plug-ins and support of all Pro Tools automation modes except trim.

**DIGIToolbox XP**

The VXPocket Type II PC Card allows you to perform serious audio production and analysis on your laptop computer. It offers professional audio quality plus compatibility with the most popular applications under both Windows 95/98/NT and Mac OS. Features: 24-bit converters; two balanced analog mono inputs at microphone or line level, and two balanced analog outputs; S/PDIF input and output allowing direct digital transfer; a break-out cable with XLR connectors for the analog inputs and outputs and RCA phones (Cinch) connectors for the digital I/O; 16-bit performance with Microsoft WAVE protocol and MacOS Sound Manager; ASIO driver available for 24-bit operation with compliant applications.

**VXPOCKET2V**
audio card for laptop computer
Mfr. List $795.00
ONLY $599.00
**ECHO**

**LAYLA24**

Layla is a professional system consisting of a PCI-bus card and a rack-mount audio interface that allows you to connect directly to professional audio equipment. This latest version, the Layla24 features both a 24-bit internal signal path and 24-bit A/D and D/A converters. Other features include simultaneous record and play, on-board MIDI interface, MTC sync compatibility and a headphone jack. The connectors include 8 balanced TRS analog inputs (two front panel inputs for easy access), 8 balanced analog outputs, ADAT optical and S/PDIF stereo digital I/O.

**ALAYA24**  24-bit PC digital recording interface  Mfr. List $995.00  **ONLY $799.00**

**ECHO**

**GINA24**

Gina24 offers 2-in/8-out balanced 1/4" connections, ADAT, S/PDIF Coaxial and S/PDIF optical I/O. Gina also has an internal digital audio connection for the CD-ROM drive. Using the latest generation of 24-bit 96kHz converters, Gina24 offers a high dynamic range and low distortion. It comes with a 6 ft. shielded host cable that connects the break out box to a PCI bus master interface card. Features: headphone output with volume control; syncs to other Echo 24-bit products; compatible with Windows 95/98/ME (drivers for Windows 2000/NT/G5G5, Mac and BeOS coming soon); compatible with all popular recording/editing software; simultaneously record two analog channels while playing back eight analog channels; will record analog and digital inputs simultaneously; includes mixer application for audio outputs; monitor assignments, volume, and metering; includes Syntrellum's Cool Edit Pro® SE to get you started!

**GINA24**  24-bit PC digital audio card  Mfr. List $495.00  **ONLY $399.00**

**LYNX**

**LYNXONE**

The LynxOne integrates digital audio and MIDI into a half-size PCI card providing recording professionals with an exceptional sounding, high-performance audio production tool. Besides the expected 24-bit/96 kHz audio support, it also features dual MIDI ports plus the clock inputs and outputs sync to word and video clocks - just what television and video professionals need. Features: 24-bit stereo analog audio inputs and outputs (XLR connectors on audio cable); digital I/O supporting AES/EBU and S/PDIF formats at sample rates up to 96 kHz (XLR connectors on audio cable); highly adjustable sample clock tunable to all rates 8 kHz to 100 kHz.

**LYNXONE**  24-bit PC digital audio card  Mfr. List $549.00  **ONLY $481.00**

**SEASOUND**

**SOLOEX**

The SoloEX digital audio recording system is a complete professional solution for digital recording. Combining mixing, amplification, comprehensive zero-latency monitoring, MIDI connectivity and 24-bit/96 kHz conversion; the Solo puts everything you need in one integrated environment. The SoloEX can even be expanded to eight discrete channels with the Solo Expander. Features: 2 custom mic preamps; 2 high-Z instrument preamps; 2 channel inserts; 2 stereo headphone amps; two 24-bit/96 kHz A/D and D/A converters; MIDI In/Out/Thru; integrated mixer; digital S/PDIF I/O; PC/Mac interface card. SoloEX8 includes SoloEX and Solo Expander for a total of 8 channels.

**SOLOEX**  digital audio recording system  Mfr. List $899.95  **ONLY $549.95**

**SOLOEX8**  soloex system with expander for 8 total channels  Mfr. List $479.95  **ONLY $899.95**

**SOUND DEVICES**

**USBPRE**

Sound Devices USBPre is a complete, portable hardware interface for PC-based digital recording. Designed for USB-equipped Macintosh OS 9 and Windows computers (98SE, 2000, and ME), USBPre quickly and easily interfaces microphones, line level sources, musical instruments, and consumer audio electronics with personal computers. Its high quality, 24-bit audio inputs offer the most direct signal path into the computer. All analog-to-digital and digital-to-analog conversion is done outside of the computer, in the USBPre, for superior audio performance. Powered by the USB port from either notebook or desktop computers, no additional power source is required - the computer provides all power needed for operation.

**USBPRE2**  USB PC/Mac interface  Mfr. List $995.00  **ONLY $549.95**

*Non-Inventory item subject to return restrictions.*
SOUNDSCAPE MIXTREME

The Mixtreme PCI card provides 16 channels of 24-bit digital input and output via two industry standard 8-channel TDF (Tascam Digital Interface) ports, but it also has 24-bit digital mixing and real-time DSP effects plug-ins. The fully configurable Soundscape V2 mixer puts a 24-bit, 16-in/out, 16-bus virtual digital mixer at your fingertips, running high-end DSP effects plug-ins from Wave Mechanics, TC Works and Soundscape. DSP-based mixing has a very important advantage compared to computer based (i.e. native) effects and mixing. The latency (delay) for most computer-based mixers is anything from 100 ms upwards, which creates an extremely annoying delay when you try to record while playing back other tracks, or if even you just want to use the "real-time" effects. Mixtreme has a real DSP-based digital mixer on-board.

Mixtreme's dual TDF ports allow direct connection to a digital console or Tascam DA-88 multitrack recorder. Optionally, you can connect two IBOX8LINE 8-Channel TDF to analog interfaces to Mixtreme, for 16 channels of 20-bit analog I/O. For ADAT users, there is the IBOX8ADAT TDF-to-ADAT converter, and you can connect two of these, or combine an ADAT and analog interface.

Soundscape is offering the Mixtreme 2000 PowerPAK that includes the Mixtreme card, plus the Soundscape iBOX 2-line interface, plus a bundle of software.

**MIXTREME2000**
Mfr. List $999.00

**MIXTREMEPCI**
PC digital audio card with TDF I/O
Mfr. List $549.00

**IBOX2LINE**
2 channel analog to TDF interface for Soundscape MIXTREMEPCI
Mfr. List $200.00

**IBOX8LINE**
8-channel analog to TDF interface for Soundscape MIXTREMEPCI
Mfr. List $450.00

**IBOX8ADAT**
8-channel analog to ADAT interface for Soundscape MIXTREMEPCI
Mfr. List $200.00

**IBOX8XLR**
8-channel XLR analog to TDF interface for Soundscape MIXTREMEPCI
Mfr. List $1,482.00

**MIXTREME3PDIF**
PC digital audio card with TDF and S/PDIF I/O
Mfr. List $659.00

TASCAM US-428

With the US-428, Tascam has created the first major advancement in USB-based audio. Starting with a fully 24-bit front end, with two XLR inputs, two balanced 1/4" inputs, two unbalanced 1/4" inputs (switchable to Hi-Z), and S/PDIF I/O, and adding four channels of digital in and two out via USB, the US-428 is a powerful DAW (digital audio workstation) controller. It's got real tactile controls for the most-used functions in your DAW applications: transport, mute/solo and locate keys; unlimited banks of eight faders; an EQ module that supports control of up to four bands of fully parametric EQ; plus four aux sends and a panpot. It's even got 32 channels of MIDI I/O (2 MIDI ports). Use one for your keys and modules, and the other for MTC-to-lock your MTC-capable tape tracks to your computer. It's also ideal for professionals making the leap from Portastudios to computer-based DAW programs. There are no audio cards to mess with, and you already know how to use it. Plus you can pack it along with your laptop for the perfect mobile setup. The US-428 comes bundled with Steinberg's Cubase VST sequencing software as well as MP3 encoder.

**US428**
digital audio workstation controller
Mfr. List $625.00
ONLY $499.00

YAMAHA DSP FACTORY

The DSP Factory DSP2416 offers the mixing power of the Yamaha 02R digital mixer complete with 24 channels of digital mixing, on-board digital effects and dynamics processors plus 16 tracks of hard disk recording with up to 32-bit resolution. Features:
digital mixer with 10 bus outputs and 6 aux sends; 4-band parametric EQ; 26 dynamic processors, 2 effects processors equal in quality to the REV500 channel delay on 20 channels; 8 track simultaneous recording with 16 track playback with up to 32-bit resolution; signals to and from recorder and mixer remain in the digital domain; compatibility with a wide variety of control software programs; stereo analog I/O on RCA connectors; stereo digital (coaxial) I/O.

It is easy to expand the DSP Factory by adding multichannel interface boxes. The AX16 installs into the drive bay of a PC tower and provides four 1/4" analog inputs (two allow mic level) and four 1/4" analog outputs, plus a headphone jack. Two AX16s can be connected to one DSP2416 card to provide eight additional analog inputs and outputs.

The AX16AT is a PCI card that provides two pairs of ADAT optical connectors for transferring 16 tracks of digital audio to and from the DSP2416 card at resolutions of up to 24-bit.

**DSP2416**
32-bit PC digital audio card/processor
Mfr. List $599.00
ONLY $599.00

**AX16**
4-channel analog interface for Yamaha DSP2416
Mfr. List $299.00
ONLY $239.00

**AX16-AT**
16-channel ADAT interface for Yamaha DSP2416
Mfr. List $299.00
ONLY $239.00

**MYXTRA**
software for Yamaha DSP2416
Mfr. List $499.00
ONLY $384.00
**Production Software**

**IQS**

Saw Series

With Saw32 easily record and edit up to 16 mono or stereo tracks with 16-bit resolution (CD and DAT-quality sound files) directly on your computer's hard drive. Saw32 supports up to 6 stereo sound cards for a maximum of up to 12 physical inputs and outputs, and automatically converts 8 bit, 16 bit, mono or stereo files of any sample rate, playing them all seamlessly in sync - live...in real-time! The elegance and speed of the Saw's design offers unmatched efficiency in taking a project from conception to completion. Saw32lite offers the same functionality as Saw32, but has 8 mono/stereo tracks and supports 3 stereo devices.

**SAW32**

16-track PC recording software

Mr. List $500.00

ONLY $488.00

**SAW32LITE**

8-track PC recording software

Mr. List $300.00

ONLY $293.00

**MINNETONKA**

Fast Edit 4.0

Minnetonka

**MXTRAX**

The popular Fast Edit 4.0 editing software now runs even faster and smoother as a 32-bit program. It provides fully nondestructive editing for Windows .wav files and now supports DirectX plug-ins. Features: ultra-fast cut and paste; sample accurate editing; simultaneous record and play with mix function (makes over dubbing and layering sounds a snap); fade-in/fade-out; crop-In markers can be manually or automatically named; reverse play, variable-speed, gain change and AGC functions; accurate punch-ins; scrub function.

MxTrax "Native" works with your Windows-compatible sound card and provides an easy-to-use interface for recording, mixing and editing. This powerful software lets you drag and drop elements to build your own mixer with a host of real-time processing and effects and full mixer automation. In addition, you get lightning-fast cut-and-paste editing with instantaneous fades and gain change, unlimited undos and much more.

With MxTrax gain access to the full power of the Yamaha DSP Factory (see previous page). MxTrax supports up to 6 stereo sound cards for a maximum of up to 12 physical inputs and outputs, and automatically converts 8 bit, 16 bit, mono or stereo files of any sample rate, playing them all seamlessly in sync – live...in real-time! The elegance and speed of the Saw's design offers unmatched efficiency in taking a project from conception to completion. Saw32lite offers the same functionality as Saw32, but has 8 mono/stereo tracks and supports 3 stereo devices.

**FAST EDIT 4.0**

32-bit PC editing software

Mr. List $199.00

ONLY $161.00

**MXTTRAX NATIVE**

PC recording software

Mr. List $399.00

ONLY $307.00

**MXTTRAX**

software for Yamaha DSP 2416

Mr. List $499.00

ONLY $384.00

**SONIC DESKTOP**

SmartSound® is the powerful intuitive way to create soul-stirring soundtracks in minutes. It's the first and only audio software designed to make complete, professional soundtracks, for any broadcast project, accurate to a tenth of a second – all with an award-winning user interface you can master in minutes. Features: create professionally edited soundtracks fast; create soundtracks at any length accurate to 1/10 of a second; find the music you need faster than any music library search engine; no time wasted piecing together isolated instrument loops; powerful, patented automated music creation engine; save and export files in the most popular, widely used file formats; the perfect add-on utility for any audio system.

SmartSound's Audio Palette and Sound Palette series of add-on music and sound effects CD-ROMs are especially enabled to work with its unique patented soundtrack creation process. These CD features live musicians and top production value to give your SmartSound soundtracks that emotion-packed professional edge. Choose from 24 exciting CDs with such themes as narration backdrops, romance and memories, spicy rhythms, classical masters, holiday magic and more. Call for list of titles and prices today.

**WFM44**

PC music creation software

Mr. List $399.00

ONLY $281.00

**SONIC FOUNDRY**

SOUND FORGE 5.0

Sound Forge® 5.0 is the brand new version of Sonic Foundry's award-winning, two-track digital audio editor. Sound Forge includes a powerful set of audio processes, tools and effects for manipulating audio. This one-of-a-kind application is perfect for audio editing, audio recording, effects processing and media encoding. Combine Sound Forge with any Windows-compatible sound card to create, record and edit audio files. The clean and familiar Windows interface makes editing a breeze. It also has built-in support for video and CD burning and can save to a number of audio and video file formats, including WAV, WMA, RM, AIFF and MP3.

Sound Forge provides a combination of over 35 audio effects and processes with more than 200 presets. It includes dozens of editing features including: Cut, Paste, Move, Delete, Mute, Reverse, Crossfade, Trim, Normalize, Fade, Pan, Resample, Enhance, Insert Silence and more. Sound Forge also includes 20 DirectX Audio Plug-ins, including XFX1, XFX2 and XFX3 and Acoustic Mirror™, which can be used for acoustic simulation and microphone modeling. The entire arsenal of effects includes Amplitude Modulation, Chorus, Delay, Distortion, Flange, Gapper, Noise Gate, Pitch Bend, Reverb, Vibrato, Time Compression, Wave Hammer™ and more. Sound Forge includes three EQs – graphic, parametric, and paragraphic and supports DirectX Plug-Ins from third party applications. Simple drag-and-drop operations and a customizable interface, allowing you to build projects the way you want, make Sound Forge a favorite application for broadcasters and recording professionals.

**SSF5000**

PC multitrack editing software

Mr. List $499.95

ONLY $333.00

* Non-inventory item subject to return restrictions

**Software not returnable**
Production Software

SONIC FOUNDRY
VEGAS AUDIO 2.0
Vegas Audio 2.0 achieves a level of performance not previously available with software-only multitracks. High bandwidth 24-bit, 96 kHz audio is only the beginning. Complete flexibility and enhanced media handling allow the mixing of file properties, bit depths and sampling rates previously available with SONIC FOUNDRY i/o support; MIDI Time Code synchronization. multitrack record and play; unlimited undo/redo; multiple DirectX FX sends; 26 AUX outputs; simultaneous supports multiple file formats (.wav/.aif); 32 assignable bandwidth 24-bit, 96 kHz audio is only the beginning.

**VEGAS2.0**
Mfr. List $499.00
ONLY $366.00

**SYNTILLIUM COOL EDIT PRO**
Cool Edit Pro is a recording/editing/mixing software suite for Windows. It packs enough top-quality digital effects modules to fill a room full of equipment racks, and it can mix up to 64 tracks together, using just about any sound card. Features: time display window; level meters and clip indicators; tracks are color coded for Mute, Solo and Record; graphic volume and pan envelopes as well as loop, crossfade, zoom and snap features; multiple takes and multiple undos; SMPTE slave capability; much more.

**COOLEDITPRO**
Mfr. List $399.00
ONLY $320.00

**TRACER TECH**
DIAMOND CUT 32
Diamond Cut 32 gives you one environment for all of your noise reduction work. Now you can record, play, clean and drop your material to CD all without leaving the safe confines of Diamond Cut's intuitive user interface. Use if for restoring audio from old recordings and vinyl records, removing hiss, ticks and pops, and even cleaning audio with powerful editing tools.

**DC32**
Mfr. List $999.00
ONLY $86.00

**ATI**
DM200/MMM100
The new DM200 24-bit D/A converter from ATI is part of its famous Nanoamps line, a compact and rugged series of low cost problem solvers. The DM200 accepts loop-thru AES/EBU format digital audio via XLR, BNC and RCA connectors. A 24-bit/96 kHz D/A converter feeds balanced audio line outputs and stereo headphone drivers. Input sample rates of 32, 44.1, 48, 82.2 and 96 kHz are decoded and indicated with a front panel display.

**DM200**
Mfr. List $999.00
ONLY $555.00

**DMM100**
Mfr. List $259.00
ONLY $240.00

**DMMM100BAT**
Mfr. List $299.00
ONLY $277.00

**HOSA**
ODL SERIES
Each of these handy boxes allows simultaneous transfer (dubbing) of two independent channels of digital audio in either or both directions. ODL-276 links S/PDIF (coax RCA) into optical Toslink; ODL-312 links AES/EBU (XLR) to optical (Toslink); ODL-313 links S/PDIF (coax RCA) to AES/EBU (XLR). CDL-330 allows selection of one of two Toslink inputs to feed a single Toslink output. ODY-314 splits an optical input into two optical outputs. It works for 2-channel S/PDIF.

**ODL276**
Mfr. List $95.00
ONLY $86.00

**ODL312**
Mfr. List $95.00
ONLY $86.00

**CDL313**
Mfr. List $95.00
ONLY $86.00

**ODS330**
Mfr. List $95.00
ONLY $86.00

**ODY314**
Mfr. List $95.00
ONLY $86.00

**FOSTEX**
VC-8
This affordable ADAT optical/analogue converter adds analogue I/Os to digital recorders or adds 8 high-quality analogue inputs and outputs to a PC sound card with ADAT opticals. Features: 20-bit A/D; D/A; S/PDIF/analogue conversion; selectable clock internal (44.1 kHz), optical, word (32-48 kHz) enables seamless integration with digital equipment; Input Mode select (2/4/8 buss) for easy combination with any analogue mixer.

**VC-8**
Mfr. List $399.00
ONLY $289.00

**LUCID**
AESX4/GENX6/SPDIFX7
With these new distribution units from Lucid, you can circulate audio and sync around your studio. The AESx4 and the CLKx6 take the audio at their inputs and distribute it to multiple, same-format destinations. The AESx4 receives either Word Clock or AES audio and delivers it to four AES-connected units. The CLKx6 passes sync information, in Word Clock or Super Clock format, to 6 parallel outputs. The SPDIFx7 allows you to take S/PDIF stereo audio and feed it to four S/PDIF, two Toslink optical, and one AES outputs. Distribution in multiple formats is simultaneous.

**AESX4**
Mfr. List $399.00
ONLY $450.00

**GENX6**
word/superclock generator
Mfr. List $399.00
ONLY $540.00

**SPDIFX7**
S/PDIF distribution amplifier
Mfr. List $399.00
ONLY $360.00

**LUCID**
AD9624/DA9624
Lucid's AD9624 and DA9624 offer true 24-bit resolution assuring full dynamic range in A/D and D/A signal paths. Features Both: 96 kHz conversion for maximum sampling bandwidth; true 24-bit resolution using high precision converters; simultaneous AES-3 (XLR), S/PDIF (coaxial), and S/PDIF (Toslink) digital outputs; 20-segment level LED ladders (input). Features: AD9624: internally generated sample rates of 32, 44.1, 48, 88.2 and 96 kHz; external sync via word clock; user-selectable 16-bit noise shaping.

**AD9624**
Mfr. List $899.00
ONLY $810.00

**DA9624**
Mfr. List $749.00
ONLY $675.00

*Non-inventory item subject to return restrictions.*
**Digital Accessories/Sound Effects**

**LUCID**

**ADA1000**

The useful ADA1000 combination A/D-D/A converter offers superior sound quality with 20-bit oversampling delta-sigma technology, a +4 dBu interface to your sound card with XLR and 1/4" analog, and AES/EBU or SPDIF digital ports.

*ADA1000* digital recording hardware

Mfr. List $599.00

ONLY $540.00

**VALENTINO**

**SOUND EFFECTS LIBRARIES/SFX1000**

All Valention CD series sound effects are individually tracked on each CD (no sub-indexing) grouped together by category so cuts are easy to locate in any CD player. There are no additional royalty, clearance or license fees required once a library is purchased.

SFX1000 is a CD-ROM filled with one thousand sound effects as 16-bit .wav files that are easy to retrieve in six languages using your personal computer equipped with a CD-ROM drive and audio card. Not for use in standard audio CD players.

*CD10* sound effects library – 10 CD set

Mfr. List $400.00

ONLY $364.00

*CD25* sound effects library – 25 CD set

Mfr. List $850.00

ONLY $773.00

*CD50* sound effects library – 50 CD set

Mfr. List $1,399.00

ONLY $1,272.00

**SFX1000** PC sound effects CD

Mfr. List $100.00

ONLY $91.00

**Distribution Amplifiers**

**APHEX**

**120A**

The 120A is a high-performance 1x4 audio distribution amp. Features: one high impedance input and four low impedance outputs, all electronically servo-balanced; half-rack-wide sturdy steel chassis may be rack mounted singly or paired with another unit in a single rack space; THD < 0.002% @ +4 dBm; hum and noise better than 90 dB down.

120A 1x4 distribution amp

Mfr. List $319.00

ONLY $251.00

440085A rack kit for Aphex 120A

Mfr. List $30.00

ONLY $25.00

**AUDIOARTS**

**SDA8400**

The Audioarts SDA-8400 is a 1x8 channel stereo, rack mount distribution amplifier. Features: LED status lights for all input and output channels; extremely flat frequency response; separate 3-conductor connectors for each input and output.

SDA8400 1x8 distribution amp

Mfr. List $524.00

ONLY $451.00

**HENRY ENGINEERING**

**U.S.D.A.**

U.S.D.A. (Utility Summing and Distribution Amplifier) can be used as a conventional 1x4 or 2x4 DA, or to combine a stereo input to a mono output. Features: two inputs (one stereo pair) accept balanced or unbalanced sources; four 600 ohm balanced outputs (two stereo pairs); mono/stereo switches; built-in power supply; screw barrier connectors.

USDA

2x4 distribution/summing amp

Mfr. List $195.00

ONLY $163.00

* Non-inventory item subject to return restrictions.

**ATI**

**ENCORE DA SERIES**

These rack mount ATI distribution amps come in four models, depending on the configuration you desire. The DA206 is a dual 1x3 DA and the DA412 is a quad 1x3 DA. Features: outputs are active balanced and individually adjustable; inputs can be paralleled via internal jumpers for 1x6, 2x6 or 1x12 operation; XLR type input and output connectors.

The DA208 is a dual 1x4 DA and the DA416 is a quad 1x4 DA. Features: outputs are active balanced and individually adjustable; inputs can be paralleled on rear connectors for 1x8, 2x8 or 1x16 operation; barrier block input and output connectors.

**DMA103/DA103**

The DMA103 is a mic input to 3 line outputs microphone distribution amp. Features: three servo balanced line outputs @ +22 dBm; dip switch selection of phantom power and preamp gain for high output microphones and line level inputs; master gain control and independent output level trimmers; XLR input and output.

Both amps require power supply (WA100-1).

DA103 is a line level distribution amp. Features: 1 line level input to 3 servo balanced outputs @ +22 dBm; master gain control and independent output level trimmers; individual two-piece quick change Phoenix-type connectors, one set for each input and output.

**DXA SERIES**

These AES/EBU digital audio distribution amplifiers are available with 12 balanced XLR or 24 unbalanced BNC outputs per channel. The provide an economical stand-alone digital audio distribution solution or an effective output expander for use with other ATI distribution amplifiers. Features: accepts sample rates from 27 to 96 kHz; data re-clocking and regeneration; transformer balanced output.

**ES246/ES217**

ES246 is a rack mount, quad 1x6 DA with the choice of barrier strip or XLR connections. Features: front panel gain adjustment is available for each of the 4 input channels; balanced or unbalanced operation with switchable 600Ω or 10kΩ input termination. The barrier strip model is 1RU high. The XLR model is 2RU high. The ES217 is a 1x4 DA housed in a free-standing chassis. Choose from barrier strip or XLR connections.

**ES246**

Mfr. List $699.00

ONLY $648.00

**ES217**

Mfr. List $669.00

ONLY $610.00


U.S.D.A. (Utility Summing and Distribution Amplifier) can be used as a conventional 1x4 or 2x4 DA, or to combine a stereo input to a mono output. Features: two inputs (one stereo pair) accept balanced or unbalanced sources; four 600 ohm balanced outputs (two stereo pairs); mono/stereo switches; built-in power supply; screw barrier connectors.

USDA

2x4 distribution/summing amp

Mfr. List $195.00

ONLY $163.00

* Non-inventory item subject to return restrictions.
### RLAN Distribution Amplifiers

**DA216A**
- The Rane DA 216a Distribution Amplifier is a two-input, sixteen-output splitter/distribution amplifier. The DA 216a is capable of providing sixteen discrete balanced outputs from one or two balanced mic level or line level inputs.
- The level of each output is individually adjusted via one of the sixteen screwdriver output level controls on the front panel. Each output may be assigned to either of both inputs via front panel accessible slide switches.
- The Master A and B Level controls affect the overall level of each of the sixteen screwdriver output level controls on the front panel. Each output may be assigned to either or both inputs via front panel accessible slide switches. The Master A and B Level controls affect the overall level of each input.
- In other words, they allow all assigned outputs to be turned up or down at once. LEDs indicate an Overload (OL) at either the inputs or at the internal gain stages.

**DA216A**
- Input gain pushbutton switches provide a microphone (OL) at either the inputs or at the internal gain stages.
- The Rane RA 166 is a uni-directional stereo interface, converts the +4 dBm (or +8 dBm) line levels to -10 dBm (hi-fi) audio specifications. Active, servo-balanced circuitry yields THD + noise less than 0.009%; LED input metering, level control on inputs and outputs, internal power supply.

### RADIX Distribution Amplifiers

**DA1600**
- The Radix DA1600 is a heavy-duty distribution amp with 8 stereo or 16 mono balanced outputs. Front panel level control and selectable pads accommodate a wide range of input levels.
- Features: removal plug-in connectors that allow wiring changes to be made quickly and effortlessly with the distribution amp still in the rack; THD 0.1% max @ +20 dBm out, SNR 90 dB.

### RDL Distribution Amplifiers

**ST-DA3/STM-DA3**
- Radio Design Labs’ Stick-Ons™ are compact, high-quality audio interface devices.
- Requires 24-volt power supply (PS24A sold separately).
- ST-DA3 is a 1 x 3 mono line level distribution amplifier.
- STM-DA3 is a 1 x 3 mic level distribution amplifier.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Mfr. List</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>STD3</td>
<td>1 x 3 distribution amp</td>
<td>S130.00</td>
<td>$106.00</td>
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<td>STM3D</td>
<td>1 x 3 distribution amp</td>
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<td>$106.00</td>
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<td>PS24A</td>
<td>power supply for RDL Stick On™ series</td>
<td>S18.00</td>
<td>$15.00</td>
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</table>

### SHURE Interface Equipment

**FP16A**
- Rugged, compact and lightweight, this 1-input, 6-output distribution amplifier is specifically designed for field production and can be powered via internal batteries or an AC adapter. It's ideal as a portable press bridge.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Mfr. List</th>
<th>Price</th>
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<tbody>
<tr>
<td>FP16A</td>
<td>1 x 6 portable distribution amp</td>
<td>$557.90</td>
<td>$494.00</td>
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### APHEX Interface Amplifiers

**124A**
- 124A easily interfaces consumer audio equipment to professional studio and broadcast facilities with superior audio specifications.

<table>
<thead>
<tr>
<th>Model</th>
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<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>124A</td>
<td>level matching interface amplifier</td>
<td>$229.00</td>
<td>$185.00</td>
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</tbody>
</table>

### ROLLS Interface Equipment

**RA63**
- Looking for a cost-effective, rack mount, 1 x 6 mono DA? Try the Rolls RA63 for excellent performance.

<table>
<thead>
<tr>
<th>Model</th>
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<th>Mfr. List</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>RA63</td>
<td>1 x 6 distribution amp</td>
<td>S188.00</td>
<td>$162.00</td>
</tr>
</tbody>
</table>

### SYMETRIX Interface Equipment

**305**
- The Symetrix 305 is a quality, affordable 1-input, 4-output mono distribution amplifier with euroblock terminal connectors.
- THD-noise is less than 0.009%. Optional rack mount available (model #RMSSYMTRIX).

### ATI Interface Equipment

**DP100/MM100**
- DP100, a uni-directional level matching amplifier converts the unbalanced IHF outputs of CD players to transformer-balanced and isolated 600 ohm line levels with no compromise or degradation of the source audio.

<table>
<thead>
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<tbody>
<tr>
<td>DP100</td>
<td>unidirectional stereo level matching amplifier</td>
<td>S299.00</td>
<td>$277.00</td>
</tr>
<tr>
<td>MM100</td>
<td>bidirectional stereo level matching amplifier</td>
<td>S339.00</td>
<td>$314.00</td>
</tr>
</tbody>
</table>
**Interface Amplifiers**

**ATI**

**NANO AMP SERIES**

Nanoamps are high-quality, ultra compact (1/3 rack width) interface amplifiers.

- BI100 is a stereo, bi-directional pro/consumer interface unit.
- BU400 is a 4-channel unit - all balanced to unbalanced.
- UB400 is a 4-channel unit converting 4 unbalanced inputs to balanced outs. (RCA and XLR connectors on above units).
- L200XLR is a dual line attenuator/impedance converter/signal splitter/summing amp.

All units require an external power supply (WA100-1).

- *BI100* stereo bi-directional level matching interface
  - Mfr. List $239.00
  - ONLY $222.00
- *BU400* 4-channel bal. to unbal. matching amplifier
  - Mfr. List $229.00
  - ONLY $213.00
- *UB400* 4-channel unbal. to bal. matching amplifier
  - Mfr. List $259.00
  - ONLY $240.00
- *L200XLR* dual line level/splitting/summing amp
  - Mfr. List $235.00
  - ONLY $233.00
- *SUM100* stereo to mono summing amplifier
  - Mfr. List $225.00
  - ONLY $209.00
- *WA100-1* wall mount power supply
  - Mfr. List $15.00
  - ONLY $14.00

**BROADCAST TOOLS**

**IPC-1/IPC-2**

The IPC-1 is an active bi-directional stereo level-matching interface designed to interface IHF consumer audio equipment with professional audio equipment. Features: input and output level controls; gold plated phono jacks; active balanced pro connections on removable screw terminals; excellent immunity from hum and RFI; monaural jumpers and optional rack mount kit.

- **IPC1** stereo bi-directional interface amplifier
  - Mfr. List $169.00
  - ONLY $151.00
- **IPC2** twin stereo interface amplifier
  - Mfr. List $169.00
  - ONLY $151.00

**EBTECH**

**LLS/LLS8**

The LLS 2-channel unit converts back and forth between -10dBV and +4dBu, eliminates ground loop hum and converts between balanced and unbalanced signals at either end. The LLS8 is an 8-channel rack mount unit.

- LLS
  - Mfr. List $90.00
  - ONLY $72.00
- *LLS-8* 8-channel line level shifter
  - Mfr. List $345.00
  - ONLY $276.00

**HENRY ENGINEERING**

**MATCHBOXII/TWINMATCH**

MatchboxII is an ideal way to correctly interface consumer equipment with professional studio gear. The bi-directional unit features 4 independent amplifiers providing full stereo input and output interface; adjustable output levels and RF shielding. Balanced XLR and unbalanced RCA I/O.

Twinmatch is like the MatchboxII, but provides two stereo channels in one direction for playback of two consumer level units.

- **MATCHBOXII**
  - Mfr. List $195.00
  - ONLY $163.00
- **TWINMATCH**
  - Mfr. List $195.00
  - ONLY $163.00

**RLD**

**STICK-ON SERIES**

Radio Design Labs' Stick-Ons™ are compact, high-quality audio interface devices that can be directly and discreetly mounted on equipment, under counter tops, or combined in rack mount systems. Active units require a 24-volt power supply such as the PS24A (sold separately).

- **STA1** interface amplifier
  - Mfr. List $140.00
  - ONLY $113.00
- **STA1M** audio line amplifier
  - Mfr. List $103.00
  - ONLY $83.00
- **STA2** line amplifier
  - Mfr. List $147.00
  - ONLY $119.00
- **STGCA1** gain control amplifier processor
  - Mfr. List $123.00
  - ONLY $100.00
- **STGCA2** fast gain control amplifier
  - Mfr. List $123.00
  - ONLY $100.00
- **STGLA1** gated line amplifier
  - Mfr. List $115.00
  - ONLY $93.00
- **STGPS1** gated speech preamplifier
  - Mfr. List $124.00
  - ONLY $100.00
- **STM2A** muting monitor amplifier
  - Mfr. List $81.00
  - ONLY $66.00
- **STP1** dual attenuator (passive)
  - Mfr. List $57.00
  - ONLY $46.00
- **STRG1** ramp generator
  - Mfr. List $106.00
  - ONLY $86.00
- **STVCA1** voltage controlled amp
  - Mfr. List $116.00
  - ONLY $93.00
- **STVDX1** audio control vox relay
  - Mfr. List $99.00
  - ONLY $80.00
- **STVP1** voice over module
  - Mfr. List $130.00
  - ONLY $106.00
- **PS24A** power supply for RDL Stick-On™ series
  - Mfr. List $18.00
  - ONLY $15.00
- **STFDS** power supply distributor
  - Mfr. List $66.00
  - ONLY $53.00

**STICK-ON SERIES**

- **ST-19A**
  - Mfr. List $127.00
  - ONLY $103.00
- **ST-19B**
  - Mfr. List $150.00
  - ONLY $122.00

*Non-inventory item subject to return restrictions.*
Interface Amplifiers

**RD L**

**RU-LA2D/RU-BLA2**

These compact units offer outstanding audio performance and can be rack three across in only 1RU.

The RU-LA2D is a bi-directional impedance matching device for conversion from +4 balanced to -10 unbalanced equipment and vice-versa with XLR, RCA and barrier block connections.

The RU-BLA2 is designed to drive and/or buffer balanced audio lines. It features discrete dual channels with XLR/1.

**RU-LA2D**  
INPh/rJ/interlace  
Mr. List $574.00  
**ONLY $216.00**

**RU-BLA2** line-driver/buffer  
Mr. List $238.00  
**ONLY $199.00**

**RUSS FRIEND**

**CD100X**

Here's an inexpensive tool for converting a -10 dBv source to +4 dBu. It's perfect for interfacing a consumer CD player to pro audio equipment. Features: RCA inputs and barrier strip outputs; recessed trim pots.

**CD100X**  
interface amplifier  
Mr. List $199.00  
**ONLY $104.00**

**SYM ETRIX**

**303/307**

The 303 stereo level matching amplifier accepts balanced or unbalanced outputs. Use it to interface a consumer DAT or cassette recorder to your recording console or to other +4 dBu nominal level equipment.

Features: simple, affordable conversion of consumer audio; XLR and RCA input and output jacks; external power supply; half-rack-size unit.

The Symetrix 307 isolates ground, positive and negative audio paths to break up ground loops and improve overall system performance. The two input and two output isolation box interfaces balanced and unbalanced devices.

Features: two high-performance audio transformers; euroblock terminal connectors for quick installation; increased resistance to RF interference; flexible grounding options; half-rack-size unit.

<table>
<thead>
<tr>
<th>Model</th>
<th>Feature</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>303</td>
<td>interface amplifier</td>
<td><strong>ONLY $170.00</strong></td>
</tr>
<tr>
<td>307</td>
<td>dual isolation transformer</td>
<td><strong>ONLY $170.00</strong></td>
</tr>
</tbody>
</table>

**BROADCAST TOOLS**

**8X1DAS/XLR**

Broadcast Tools' BX1 routes any one of eight AES-3 ID or AES-3 digital inputs to three outputs. Features: programmable; last selected source memory; safety lockout; output muting; remote control/status and multi-drop RS-232 and RS-485 serial ports. Two versions are available: The 8X1DAS/XLR that's balanced AES-3 110 ohm with XLR connectors, or the 8X1DAS/BNC that's 75 ohm unbalanced AES-3 with BNC connectors.

<table>
<thead>
<tr>
<th>Model</th>
<th>Feature</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>BX1DAS/XLR</td>
<td>digital audio switcher with XLR connectors</td>
<td><strong>ONLY $480.00</strong></td>
</tr>
<tr>
<td>BX1DAS/BNC</td>
<td>digital audio switcher with BNC connectors</td>
<td><strong>ONLY $480.00</strong></td>
</tr>
</tbody>
</table>

**BROADCAST TOOLS**

**PASSIVE SERIES**

Broadcast Tools passive switchers offer excellent performance in a variety of configurations. All models feature local and remote control and status via contact closures and RS232 serial ports and balanced I/O. All audio connections are via removable screw terminals.

SS2.1/BNC offers passive switching/router with 2 composite audio, video, or AES/EBU inputs to 2 composite audio, video, or AES/EBU outputs. Features: RS232 multi-drop serial port; last selected source memory; BNC connectors.

SS2.1/TERM offers passive switching/router with 2 stereo inputs to 1 stereo output or vice-versa. Features: RS232 multi-drop serial port; last selected source memory; pluggable screw terminal connectors.

SS3.1 passively switches or routes any one of three stereo inputs to one stereo output or vice-versa. Features: step input with manual or automatic sequencing; remote control/status and RS232 serial port.

6X1 passively switches or routes any one of 6 stereo inputs to a single stereo output. Features: front panel selection switches with LED indicators; front panel safety lockout; programmable power-up selection; output muting and remote step input; last source selected memory.

10X1 passively switches or routes any one of 10 stereo inputs to one stereo output or vice-versa. Features: step input with manual or automatic sequencing; remote control/status and RS232 serial port.

**SS2.1**  
BNC 2x2 composite audio/video/AES switcher  
Mr. List $169.00  
**ONLY $151.00**

**SS2.1 TERMINAL**  
2x1 stereo audio switcher  
Mr. List $169.00  
**ONLY $151.00**

**SS3.1**  
3x1 stereo audio switcher/router  
Mr. List $179.00  
**ONLY $164.00**

**6X1**  
6x1 stereo audio switcher/router  
Mr. List $419.00  
**ONLY $404.00**

**10X1**  
10x1 stereo audio switcher/router  
Mr. List $559.00  
**ONLY $531.00**

**ONLY 5X67.00**

**BROADCAST TOOLS**

**3X2**

With Broadcast Tools Active Series switchers any and all inputs can be routed to any and all outputs. All models feature local and remote control and status via contact closures and RS232 serial ports as well as input and output level control and active balanced I/O. 3X2 is designed to accommodate 3 stereo inputs and 2 stereo outputs. Features: two control modes; cascade multiple units; local and remote control and status via contact closures and RS232 serial ports; input and output level control and active balanced I/O.

**3X2**  
stereo audio switcher  
Mr. List $419.00  
**ONLY $404.00**

**8X2D/EV**  
8x2 stereo audio switcher  
Mr. List $489.00  
**ONLY $619.00**

**BURK**

**LX1**

The Burk LX1 is a quality 6-input stereo selector. Features: 166 stereo source selector with soft switching (no pops or clicks); MIX mode, which allows multiple sources to be on the air with properly maintained levels; LOOP mode, which provides a send and return for an outboard audio processor or recorder; can be controlled from front panel, studio or remote control; start automation or tape with machine-follow outputs; matches IHF or PRO inputs; excellent audio specs; multicolored LED program level meters; all connections via plug-in screw-type connectors.

**LX1**  
6-input stereo selector  
Mr. List $1,295.00  
**ONLY $1,185.00**
The AVR-8 automatically reports changes detected on its digital inputs by sending pre-recorded or custom user-recorded voice messages to a remote telephone. Includes 4 relays.

**Time Sync II**

**GPS Time Referenced Relays**

Provides three separate GPS time referenced relay outputs. One relay pulses once every 15 minutes, one pulses at the "Top of the Hour" (00:00), and one is an open collector with a 100 ms pulse every second.

**SDD-8**

**Serial Data Director**

Provides a convenient way to control up to 8 serial devices from one serial port. Uses include control of satellite receivers, switchers or any device with an RS-232 serial port.

**ENC-16/DEC-16**

**DTMF Encoder/Coupler & Decoder/Coupler**

ENC-16 encodes and DEC-16 decodes all 16 DTMF tones and act as an autodialing couplers with 16 SPST relay contact closures and RS-232 interface.

**IPC-1/IPC-2**

**Level Matching Interfaces**

Either bi-directional (IPC-1) or dual stereo (IPC-2) active level matching with input and output level controls, gold-plated RCA jacks and removable screw terminals.

**AVR-8**

**Serial Data Director**

The AVR-8 automatically reports changes detected on its digital inputs by sending pre-recorded or custom user-recorded voice messages to a remote telephone. Includes 4 relays.

**DSC-20**

**Dual Satellite Controller**

Allows the remote control of any combination of TWO StarGuide II and/or III, Wegener Unity 4000 or ComStream receivers by serial and contact closures.

**ICM-16/DT2**

**Intercom Desktop Workstation**

New desktop unit works with the ICM-16 Controller for an intercom system of up to 16 stations. Includes built-in mic and speaker.

**ICM-16/MHI**

**Intercom Monitor/Headphone Workstation**

Offers the ultimate in intercommunications. Unit integrates into your on-air and/or production console's monitor/headphone path.

**PSCII**

**Programmable Schedule Controller**

Stores and controls up to 199 events and can be programmed with hour/minutes/seconds and day/month/year or day of week. Each event can control one of 16 provided spdt relays. Two independent serial ports, GPS receiver time base and more.

**DSC-32/64**

**Dual Satellite Controller**

Allows the remote control by serial and contact closures of any combination of TWO StarGuide II and/or III, Wegener Unity 4000 or ComStream receivers. A 16 x 2 LCD display shows program descriptions.

Call BSW Today or Visit bswusa.com for More Information on Broadcast Tools.
**Controllers/Switchers/Routers**

**CONEX**

AS101

The Conex AS101 provides silent, active switching for studio routing and monitoring. Features: allows any one of 10 stereo sources to be switched to the stereo output channel; switching is accomplished by pressing one of the buttons on the front panel, or via the optional remote control; several remote controls may be connected in parallel, and all will indicate the selected channel.

- AS101 audio switcher
  - Mfr. List $962.00
  - ONLY $926.00

- AS402 remote control for Conex AS101
  - Mfr. List $161.00
  - ONLY $156.00

**LOGITEK**

PRE SERIES

The PRE-6 provides reliable, economical audio switching in a compact desktop chassis. Features: 6x1 passive switching; buttons highlight when depressed; label strip for easy Input identification; enclosed, protected terminal block; may also be used as a 1-in/6-out distribution switcher; wire capturing terminal block connectors.

- PRE-6 stereo 6 x 1 passive switcher
  - Mfr. List $125.00
  - ONLY $112.00

- PRE10M mono 10x2 rack mount switcher
  - Mfr. List $515.00
  - ONLY $460.00

- PRE10S stereo switcher
  - Mfr. List $560.00
  - ONLY $500.00

**FURMAN**

SRM80

The Furman SRM-80 signal router/monitor makes mixdown and dubbing simple and affordable. It facilitates mixdown and copying between different audio types without tying up additional console channels and handles up to 4 stereo devices (such as DAT, cassette, CDs and MDs) in addition to main mix from the board. Monitoring is easy using the built-in headphone amp or uniquely thought out amplified speaker selection system. Features: power amp drives two speaker pairs; unit also accommodates one pair of self-powered speakers; speaker select function switches among speaker pairs; 40 segment high resolution metering for L/R monitor outputs; VU metering; DIM button reduces level by -15 dB and MONO sum button will indicate the selected channel.

- SRM80 signal router/monitor
  - Mfr. List $499.00
  - ONLY $376.00

**RDL**

RU-SX4

The RU-SX4 is a very compact audio switcher (mono 4x1) for either local or remote control. Features: 4 line level bridging inputs to a single line level output (balanced or unbalanced); front panel multi-turn trimmers; solid state audio switching; remote source selection via control points; switcher powers up in the off position (no audio input selected); front panel pushbutton steps through audio inputs; front panel LED indicators.

- RUSX4 audio switcher
  - Mfr. List $256.00
  - ONLY $208.00

**HENRY ENGINEERING**

STEREOSWITCH

StereoSwitch is a cost effective way to remotely select between 3 stereo sources. Features: sealed relays with gold-plated contacts; no circuitry in the audio path, for totally transparent source selection; controlled with any momentary or maintained contact closure, open collector, TTL/C MOS logic, or DC voltage from 5-24 volts. User can choose which of the three inputs is automatically selected on power-up. Tally outputs provided to drive remote status indicators.

- STEREOSWITCH stereo switcher
  - Mfr. List $250.00
  - ONLY $209.00

**TITUS TECH**

3DRX

The 3DRX has two stereo digital and one stereo analog input plus a stereo digital output. The 3DRX will automatically switch to the secondary digital input if the primary digital source fails (loss of lock, data error, etc.) and then switch to analog input if the two digital streams fail. Features: 32 kHz, 44.1 kHz or 48 kHz sample rates; local, remote or automatic control; up to 24-bit, 96 kHz stereo digital audio for all digital inputs and outputs.

- 3DRX digital audio crosspoint switcher and repeater
  - Mfr. List $950.00
  - ONLY $927.00

**TITUS TECH**

MLW8

MLW-8 offers two 4x4 matrix-style routers that feature push-button patching (two 16-button arrays with LED indicators) and 20 memory presets. Perfect for use with VTRs or multitrack audio systems. With four balanced bridging inputs, the MLW-2 is primarily designed for the main audio path, allowing automatic crossfade to an alternate channel if a problem or loss of signal with the main channel is encountered.

- MLW8 audio router
  - Mfr. List $1,995.00
  - ONLY $1,849.00

- MLW2 audio router
  - Mfr. List $1,800.00
  - ONLY $1,757.00

**Patchbays**

**ADC**

PRO PATCH MARK IV SERIES

Pro Patch Mark IV patchbays utilize the new QCP IV punchdown system that provides gas tight connections for stranded and solid wires. These new terminals are round and more robust than previous versions and don't require orientation of the tool before punching. The new QB-4T tip can be used in existing QB-2 punch tools. Our featured patchbays from this series are the PPA-314MKIV that have two rows of 24 longframe jacks in a 3RU (3.5") chassis that's 14" deep. Choose the configuration you need. Patchbays with custom cable harnesses are also available. Call today.

- *PPA314MKIVNO 3.5" 2x24 longframe patchbay with normals brought out
  - Mfr. List $500.00
  - ONLY $583.00

- *PPA314MKIVHNO 3.5" 2x24 longframe patchbay with half normals
  - Mfr. List $570.00
  - ONLY $695.00

- *PPA314MKIVSN OS 3.5" 2x24 longframe patchbay with normals strapped (fully normalized)
  - Mfr. List $750.00
  - ONLY $695.00

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* Non-inventory item subject to return restrictions.
**ADC**

**PPA/PPB SERIES**

These economical panels are perfect for the do-it-yourselfer wanting to build a custom patch assembly. All models are 1RU and feature a rear panel strain-relief bar to secure and dress out your wiring. PPA-1 has 2 rows of 24 longframe jacks. PPA-26 has 2 rows of 26 longframe jacks. PPB has 2 rows of 48 bantam jacks.

- **PPA-1**
  - patch panel, longframe jack 2x24
  - Mfr. List $230.00
  - ONLY $213.00
- **PPA1-26**
  - patch panel, longframe jack 2x26
  - Mfr. List $250.00
  - ONLY $232.00
- **PPB3**
  - patch panel, bantam jack 2x48
  - Mfr. List $275.00
  - ONLY $255.00

**TASCAM**

**CUPB032 SERIES**

Tascam's affordable series of patchbays offer two rows of 16 jacks that are half-normalled top to bottom. Choose from four configurations: 14" to 1/4", 1/4" to RCA, RCA to RCA and TRS to TRS.

- **CUPB032U**
  - patchbay with 1/4" jacks front and back
  - Mfr. List $120.00
  - ONLY $74.00
- **CUPB032F**
  - patchbay with 1/4" jacks front, RCA jacks back
  - Mfr. List $118.00
  - ONLY $62.00
- **CUPB032R**
  - patchbay with RCA jacks front and back
  - Mfr. List $115.00
  - ONLY $61.00
- **CUPB032B**
  - patchbay with TRS jacks front and back
  - Mfr. List $145.00
  - ONLY $76.00

AMERICAN RECORDER

**SNAKE SKIN**

This unique product makes an excellent covering for bundles of wire or cables. When your wires are tucked inside the Snakeskin they become a single audio "snake" cable that is easy to manage, providing a sleek, clean appearance. The wraparound design provides 100% coverage that holds wires snugly in place. Wires can be covered with or without ends attached and can be branched out at any point along the snake. Since Snakeskin is expandable, you can add wires to your bundle at any time. Choose 1/2" or 1" diameter sizes.

- **SKIN058B**
  - 8' section of 1/2" snakeskin cable organizer
  - Mfr. List $14.67
  - ONLY $14.67
- **SKIN108B**
  - 8' section of 1" snakeskin cable organizer
  - Mfr. List $17.60
  - ONLY $17.60

HOSACABLE ADAPTORs

- **GPP105**
  - 1/4" female - 1/4" female adaptor
  - Mfr. List $4.50
  - ONLY $2.90
- **GLT255**
  - XLR female to XLR male ground lifted adaptor
  - Mfr. List $13.00
  - ONLY $8.00
- **GPR101**
  - RCA female to 1/4" male adaptor
  - Mfr. List $4.00
  - ONLY $2.20
- **GRA101**
  - RCA female to RCA female adaptor
  - Mfr. List $3.50
  - ONLY $2.30

**NEUTRIK/SWITCHCRAFT**

**AUDIO CONNECTORS**

- **NC3FX**
  - female XLR connector
  - Mfr. List $4.00
  - ONLY $2.80
- **NC3MX**
  - male XLR connector
  - Mfr. List $4.00
  - ONLY $2.60
- **A3F**
  - female XLR connector
  - Mfr. List $5.00
  - ONLY $4.00
- **A3M**
  - male XLR connector
  - Mfr. List $5.00
  - ONLY $4.00
- **190**
  - 1/4" stereo phone plug (TRS)
  - Mfr. List $8.75
  - ONLY $6.00
- **280**
  - 1/4" mono phone plug
  - Mfr. List $4.00
  - ONLY $4.00
- **780**
  - 1/8" mini plug
  - Mfr. List $5.00
  - ONLY $4.00

Non-inventory item subject to return restrictions.
# Wire/Cable

## STUDIO WIRE

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>BELDEN 8451BLACKBOX</td>
<td>22 AWG cable with bonded shield, 1000 feet</td>
<td>$104.00</td>
</tr>
<tr>
<td>BELDEN 9451</td>
<td>22 AWG cable with bonded shield, 1000 feet in box - black</td>
<td>$91.00</td>
</tr>
<tr>
<td>GEPCO 61801EZ-0</td>
<td>22 AWG cable with bonded shield, 1000 feet, black</td>
<td>$98.00</td>
</tr>
<tr>
<td>GEPCO *61801EZGF</td>
<td>22 AWG very flexible zip-style dual pair cable</td>
<td>$246.00</td>
</tr>
<tr>
<td>WEST PENN 291</td>
<td>22 AWG 2 cond w/shield wire, 1000 feet, black</td>
<td>$98.00</td>
</tr>
<tr>
<td>WEST PENN 291</td>
<td>22 AWG cable with bonded shield, 1000 feet, black</td>
<td>$91.00</td>
</tr>
<tr>
<td>GEPCO 61801EZ-0</td>
<td>22 AWG cable with bonded shield, 1000 feet, black</td>
<td>$104.00</td>
</tr>
</tbody>
</table>

### STUDIO WIRE - SPECIALS

- *22 AWG cable with bonded shield, 1000 feet* - **ONLY $104.00**
- *22 AWG cable with bonded shield, 1000 feet in box - black* - **ONLY $91.00**
- *22 AWG very flexible zip-style dual pair cable* - **ONLY $246.00**

## MULTIPAIR WIRE

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>GA61808</td>
<td>8-pair cable with 22 AWG numbered pairs, price per foot</td>
<td>$1.40</td>
</tr>
<tr>
<td>GA61812</td>
<td>12-pair cable with 22 AWG numbered pairs, price per foot</td>
<td>$1.80</td>
</tr>
<tr>
<td>GA61816</td>
<td>16-pair cable with 22 AWG numbered pairs, price per foot</td>
<td>$2.70</td>
</tr>
<tr>
<td>GA61826</td>
<td>24-pair cable with 22 AWG numbered pairs, price per foot</td>
<td>$4.00</td>
</tr>
</tbody>
</table>

### MULTIPAIR WIRE - SPECIALS

- *8-pair cable with 22 AWG numbered pairs, price per foot* - **ONLY $1.40**
- *12-pair cable with 22 AWG numbered pairs, price per foot* - **ONLY $1.80**
- *16-pair cable with 22 AWG numbered pairs, price per foot* - **ONLY $2.70**
- *24-pair cable with 22 AWG numbered pairs, price per foot* - **ONLY $4.00**

## MICROPHONE WIRE

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>BELDEN 9192A</td>
<td>24 AWG star quad, low noise mic cable, 1000'</td>
<td>$390.00</td>
</tr>
<tr>
<td>BELDEN 8412</td>
<td>20 AWG 2-conductor mic cable, 250 feet</td>
<td>$136.00</td>
</tr>
</tbody>
</table>

### MICROPHONE WIRE - SPECIALS

- *24 AWG star quad, low noise mic cable, 1000'* - **ONLY $390.00**
- *20 AWG 2-conductor mic cable, 250 feet* - **ONLY $136.00**

## DIGITAL WIRE

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEPCO 618081EZ-0</td>
<td>4-pair enhanced Cat-5 cable, 1000 feet</td>
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<tr>
<td>WEST PENN 291</td>
<td>22 AWG 2 cond w/shield wire, 1000 feet, grey</td>
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<td>GEPCO 618081EZ-0</td>
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<td>22 AWG very flexible zip-style dual pair cable</td>
<td>$246.00</td>
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</table>

### DIGITAL WIRE - SPECIALS

- *4-pair enhanced Cat-5 cable, 1000 feet* - **ONLY $124.00**
- *22 AWG very flexible zip-style dual pair cable* - **ONLY $246.00**

## HOSA ADAPTOR/PATCH CABLES

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>CPP105</td>
<td>1/4&quot; to 1/4&quot; - 5' cable</td>
<td><strong>ONLY $3.00</strong></td>
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<tr>
<td>CPP110</td>
<td>1/4&quot; to 1/4&quot; - 10' cable</td>
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<tr>
<td>CPP202</td>
<td>1/4&quot; to 1/4&quot;, dual - 6.6' cable</td>
<td><strong>ONLY $6.00</strong></td>
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<tr>
<td>CPP203</td>
<td>1/4&quot; to 1/4&quot;, dual - 9.9' cable</td>
<td><strong>ONLY $6.00</strong></td>
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<tr>
<td>CPR105</td>
<td>RCA to 1/4&quot; - 5' cable</td>
<td><strong>ONLY $2.80</strong></td>
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<tr>
<td>CPR110</td>
<td>RCA to 1/4&quot; - 10' cable</td>
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<td>CPF202</td>
<td>RCA to 1/4&quot;, dual - 6.6' cable</td>
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<td>RCA to 1/4&quot;, dual - 9.9' cable</td>
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<td>XLR male to 1/4&quot; mono - 5' cable</td>
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<tr>
<td>PXM110</td>
<td>XLR male to 1/4&quot; mono - 10' cable</td>
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<tr>
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<tr>
<td>STX105F</td>
<td>XLR female to 1/4&quot; TRS - 5' cable</td>
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<td>XRM105</td>
<td>XLR male to RCA - 5' cable</td>
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<td>XRF105</td>
<td>XLR female to RCA - 5' cable</td>
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<td>1/4&quot; TRS male - 2 RCA female y-cable</td>
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<td>YPR104</td>
<td>1/4&quot; TRS female - 2 RCA male y-cable</td>
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* Non-inventory item subject to return restrictions.

# BSW can cover all your wire and cable needs!

## NETWORK WIRE

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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<tr>
<td>BELDEN 17000A</td>
<td>4-pair enhanced Cat-5 cable, 1000 feet</td>
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<tr>
<td>WEST PENN WP54752</td>
<td>Cat-5 4-pair plenum solid shielded network wire</td>
<td><strong>ONLY $51.00</strong></td>
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### NETWORK WIRE - SPECIALS

- *4-pair enhanced Cat-5 cable, 1000 feet* - **ONLY $124.00**
- *Cat-5 4-pair plenum solid shielded network wire* - **ONLY $51.00**

## COAX WIRE

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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<tr>
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<td>low loss RG8 type cable, price per foot</td>
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<tr>
<td>BELDEN 90913F</td>
<td>high flex, low loss RG8-type cable, price per foot</td>
<td><strong>ONLY $7.00</strong></td>
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<tr>
<td>WEST PENN *9810</td>
<td>RG8 type non plenum cable, 1000 feet</td>
<td><strong>ONLY $410.00</strong></td>
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</tbody>
</table>

### COAX WIRE - SPECIALS

- *low loss RG8 type cable, price per foot* - **ONLY $6.00**
- *high flex, low loss RG8-type cable, price per foot* - **ONLY $7.00**
- *RG8 type non plenum cable, 1000 feet* - **ONLY $410.00**

# BSW can cover all your wire and cable needs!
**HOSA DIGITAL AUDIO CABLES**

Hosa digital audio cables are durable and made of high-quality materials to ensure top performance. AES series cables are made with flexible Belden 1800f 110 ohm cable with balanced XLR connectors for use with AES/EBU compatible equipment. DRA series cables are double shielded 75 ohm coax with gold plated RCA connectors for S/PDIF applications. OPM are premium flexible fiber-optic cable with Toslink connectors utilizing a metal headshell and fiber guide. OPT series cables are standard Toslink cables with molded plastic connectors.

---

**AES003** 3' AES/EBU digital cable  
**AES005** 5' AES/EBU digital cable  
**AES010** 10' AES/EBU digital cable  
**AES015** 15' AES/EBU digital cable  
**AES020** 20' AES/EBU digital cable

---

**DRAS01** 3.3' S/PDIF digital cable  
**DRAS02** 6.6' S/PDIF digital cable  
**DRAS03** 9.9' S/PDIF digital cable  
**DRAS04** 13.2' S/PDIF digital cable

---

**OPM303** 3' premium fiber-optic cable  
**OPM305** 5' premium fiber-optic cable  
**OPM310** 10' premium fiber-optic cable  
**OPM315** 15' premium fiber-optic cable  
**OPM320** 20' premium fiber-optic cable  
**OPM330** 30' premium fiber-optic cable  
**OPM350** 50' premium fiber-optic cable

---

**OPT102** 2' fiber-optic digital cable  
**OPT103** 3' fiber-optic digital cable  
**OPT106** 6' fiber-optic digital cable  
**OPT110** 10' fiber-optic digital cable  
**OPT113** 13' fiber-optic digital cable  
**OPT117** 17' fiber-optic digital cable  
**OPT120** 30' fiber-optic digital cable  
**OPT150** 50' fiber-optic digital cable

---

**USB103AB** 3' USB cable  
**USB105AB** 5' USB cable  
**USB110AB** 10' USB cable

---

**Belden/Hosa Speaker Wire**

We stock high-quality, 14 AWG speaker wire in 100 ft. lengths. Order today.

**Speaker Wire**  
14 AWG speaker wire - 100 ft.  
Mfr. List $47.00  
ONLY $30.00

**Speaker Cable**

**SKM625** speaker cable with 1/4" plugs - 25 ft.  
Mfr. List $18.75  
ONLY $14.00  
**SKM650** speaker cable with 1/4" plugs - 50 ft.  
Mfr. List $29.50  
ONLY $22.00

---

**Microphone Cables**

**A. BSWMC24** Coiled black cable for interviews. 2.5' long retracted; extends to over 10'.  
BSWMC24 coiled mic cable with/ XLR male and female  
Mfr. List $40.00  
ONLY $39.00

**B. IC6** Mic adapter cable for some portable recorders (please call for models).  
IC6 XLR female to 1/8 mini - 6' cable  
Mfr. List $525.00  
ONLY $9.00

**C. M10/M25** Quality, low-loss mic cable in 10' or 25' lengths. XLR connectors at both ends.  
M10 10' XLR mic cable  
Mfr. List $20.00  
ONLY $11.00  
M25 25' XLR mic cable  
Mfr. List $33.00  
ONLY $13.00

**D. ME-15/ME-25** Quite possibly the finest microphone cable we carry, Merlin by Proco is Kevlar reinforced for unmatched strength and dependability. Custom Neutrik XLR connectors feature stainless steel housing with gold contacts and color-coded rings.  
ME-15 15' XLR mic cable  
Mfr. List $62.50  
ONLY $42.00  
ME-25 25' XLR mic cable  
Mfr. List $77.50  
ONLY $52.00

**ReelCable**

**E. RC25/RC-18S** Reelcable puts quick, easy and efficient cable management at your fingertips. Their self-extracting cord reels with ratchet-action and an adjustable cord stop puts an end to awkwardly hanging cables. The RC-25 is a 25-ft. retractable XLR cable. The RC-18S is an 18 ft. multi-cable snake (2 XLRs and 1 headphone jack) with breakaway connectors, perfect for the ENG technician on the move.  
RC25 retractable 35' XLR mic cable  
Mfr. List $140.00  
ONLY $130.00  
RC-18S retractable 18' XLR mic (2) headphone cable  
Mfr. List $299.00  
ONLY $272.00

---

*Non-inventory item subject to return restrictions.*
AKG K6
This dynamic, semi-open headphones provides exceptionally smooth frequency response with large 1.6" transducers. It also features a self-adjusting headband and single cord for maximum comfort and convenience. Includes mini-plug with 1/4" adaptor.

K6 semi-closed-ear headphone
Mfr. List $62.00 ONLY $39.95

BEYERDYNAMIC DT770PRO
DT770PRO from Beyer offers extremely wide frequency response (5 Hz - 35 kHz), excellent isolation and maximum comfort with "Bass Reflex" technology for improved bass response. 600 ohm nominal impedance. Mini-plug with 1/4" adaptor.

DT770PRO closed-ear headphone
Mfr. List $199.00 ONLY $159.00

FOSTEX T20R
The Fostex T20R headphones can handle high SPL without distortion. They offer sturdy construction with soft, comfortable fit in a semi-closed format. Removable cable is easily replaced. Frequency response 50 Hz to 30,000 Hz. 1/4" TRS connector.

T20R semi-closed-ear headphone
Mfr. List $119.00 ONLY $89.00

SENNHEISER HD25SP
The popular Sennheiser HD25SP offers a lightweight and comfortable alternative for listeners who spend a great deal of time wearing headphones and need maximum isolation. They are extremely rugged, with low impedance, high sensitivity drivers for unparalleled efficiency. Frequency response is 16 Hz to 22 kHz. Mini-plug connector with 1/4" adapter.

HD25SP closed-ear headphone
Mfr. List $130.00 ONLY $89.95

\* Non-inventory item subject to return restrictions.
Headphones

**SONY MDR-7509**

Offering the ultimate in durability and audio performance, the MDR-7509 is a no-compromise reference design for high-end music recording, post production and broadcast studio use. An impressive 5-30,000 Hz frequency response is possible thanks to an amorphous diamond diaphragm and large 50 mm driver, while the headphone’s massive 3W power handling ability allows it to be driven safely from a studio monitoring amplifier without overload. An invaluable ergonomic design feature allows the headphones to be folded up with both ear cups facing each other, reducing extraneous noise spill when they are left plugged in but unused in a studio.

*7509 headphone
Mfr. List $260.00
ONLY $189.00

**SONY 7500 SERIES**

Sony headphones are some of the most popular in the broadcast industry, and at these prices they’re extremely affordable! Sony MDR-7506 headphones deliver a surprisingly wide frequency range (5 to 30,000 Hz) in a comfortable, sealed ear format providing maximum isolation from external sound.

The unique MDR-7505 features 40 mm drivers with swivel earcups that allow for easy single-sided monitoring. Frequency response is 16 Hz to 22 kHz.

The Sony 7502 is a favorite economy headphone with surprisingly clear and rich sound. All models include a mini-plug connector with 1/4" adaptor.

7506 closed-ear headphone
Mfr. List $177.00
ONLY $99.00

7505 semi-closed ear headphone
Mfr. List $135.00
ONLY $80.00

7502 semi-closed ear headphone
Mfr. List $77.00
ONLY $49.00

**Headphone Amplifiers**

**BEHRINGER POWERPLAY PRO HA4400**

The POWERPLAY PRO HA4400 features 4 state-of-the-art stereo amplifiers with separate level controls. Each amplifier also sports an individual stereo AUX input.

HA4400
4-channel headphone amplifier
ONLY $119.00

**FURMAN HA6A**

Furman HA6A powers up to 6 pairs of headphones with a very generous 20 watts per channel. It can also power one or two sets of small monitor speakers, often saving the cost of an additional power amp. The front panel provides six stereo headphone jacks with independent volume controls and two speaker switches. Order today.

HA6A
6-channel headphone amplifier
ONLY $316.00

**OZ AUDIO HM6 Q-MIX**

This unique headphone matrix amplifier can create 6 independent headphone mixes at once. Each output channel can be fed any mix of the main stereo input and the 4 auxiliary inputs. Q-Mix features balanced inputs and a sturdy metal chassis. Great for your complicated remotes or busy control rooms.

HM6
headphone matrix amp
ONLY $280.00

**FOSTEX PH-50**

Drive up to 5 sets of headphones with this handy headphone distribution amplifier. Each output has its own 100mW amplifier with individual level settings. In addition, use the AUX IN as a connection for a cue system. Units may be cascaded for more outputs.

PH-50
5-channel headphone amplifier
ONLY $222.00

**JK AUDIO REMOTEAMP**

Remote Amp is a simple battery-powered personal belt clip headphone amplifier. It accepts an XLR input from your mixer, distribution amplifier or phone line hybrid and offers a volume control. The low distortion, 1 watt amplifier will cut through the crowd noise without distortion.

REMOTEAMP
headphone/earpiece amplifier
ONLY $190.00

**OZ AUDIO HR4**

The HR-4 is a high-power, single-rack-space headphone amp with 4 separate power amplifiers. All four headphone channels can be switched between the main input and individual inputs. Features: front and rear outputs for each headphone channel; individual front volume controls; balanced main line inputs; built-in power supply.

HR4
4-channel headphone amplifier
ONLY $176.00

*Non-inventory item subject to return restrictions.*
Go change the oil in the station van.

You’ve got **better** things to do with your time than worry about your station’s audio... change light bulbs, fix the PD’s radar detector, figure out where all the new batteries went.

**The New 506E HEADPHONE AMP** has everything you need to make your monitoring setup a snap.

The 506E features an internal power supply (no wall wart or line lump), LCR assignable cue input for IFB or producer talkback, and the Symetrix name.

Call BSW at 800 426-8434 to get yours today.

Then you can think about the **more important** things.
PROBLEM SOLVERS

Rolls products are known world-wide for solving those little problems that every contractor/installer encounters. We make mixers, phantom power adapters, personal monitor amps, signal processors, and more.

HEADPHONE AMPS

Rolls headphone amplifiers are loud. They are preferred in environments from noisy industrial plants to loud rock concert stages.

TEST EQUIPMENT

Rolls has signal generators, cable testers, and now the new PT102 Phase Tester.

RANE

HC6

On the HC6, the main stereo inputs drive 6 stereo headphone amplifiers through independent volume controls. Each headphone amp also has its own separate input which independently bypasses the main stereo input.

<table>
<thead>
<tr>
<th>Product</th>
<th>Mfr. List</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>HC6</td>
<td>$499.00</td>
<td>$381.00</td>
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ROLLS

RA62HA/RA53/HA43

Rolls offers portable and rack mount headphone amplifiers for varied applications. The RA62HA features 6 stereo channels with independent output controls on each channel. The stereo input includes a pan control and a mono switch to mix two stereo sources. Insert jacks are provided so each can be used independently.

The RA53 gives you 5 outputs with individual level controls and plenty of gain. Features: good selection of inputs including inserts on 2 channels; link input/output for connecting two units together; 1/4" and RCA right and left inputs; 1/4" TRS stereo input; 1/4" mono input.

The compact 4-channel HA43 is perfect for any application where space is limited. Mini-slide faders adjust individual volumes. An AC adapter is included.

<table>
<thead>
<tr>
<th>Product</th>
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<td>$190.00</td>
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<tr>
<td>RA53</td>
<td>$160.00</td>
<td>ONLY $138.00</td>
</tr>
<tr>
<td>HA43</td>
<td>$100.00</td>
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WHIRLWIND

PA-1

The Whirlwind PA-1 is a high-quality, portable stereo headphone amp. It accepts both balanced and unbalanced stereo line level signals through paralleled XLR and 1/4" TRS inputs. A mono/stereo switch allows selection of either stereo or mono operation. In mono mode, two separate inputs can be mixed in conjunction with the balance control. A pad switch attenuates the input -20 dB. It operates on two 9-volt batteries or AC power.

<table>
<thead>
<tr>
<th>Product</th>
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<tr>
<td>PA-1</td>
<td>$189.00</td>
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SYMETRIX

506E/HR-1/304S

The 506E headphone amplifier has everything you need to make monitoring setup a snap. It features an internal power supply (no wall wart or line lump) and LCR assignable cue input for IFB or producer talkback.

Features: 6 direct inputs and 6 direct outputs; proprietary high voltage drive technology; crystal clear, low distortion for reduced listening fatigue; outputs are also provided at the rear panel to provide output to the Symetrix HR-1 headphone remote.

HR-1 is a remote with audio loop thru for daisy chaining. It offers flexible mounting configurations so it more easily fastens to your console or other equipment.

The 304S stereo input, 4-output headphone amplifier is the improved version of the old, but popular SX204. It features individual volume controls for each channel plus a master input volume control; pass-thru jacks to permit daisy-chaining of multiple units.

<table>
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<tr>
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<td>HR1</td>
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<td>CALL FOR PRICE</td>
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<tr>
<td>304S</td>
<td>$299.00</td>
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</table>

Note: Non-inventory item subject to return restrictions.
**AKG C414BULS**

Type: large diaphragm electret condenser. Pickup Pattern(s): cardioid, hypercardioid, omnidirectional and figure-8. Features: low self-noise; high overload point; 126 dB dynamic range; switchable 10 & 20 dB attenuation; frequency range 20-20,000 Hz; includes stand adapter and windscreen; requires phantom power. Optional Accessories: GS-5 windscreen. C414-TL2 is a special vocal version with transformerless output and a special capsule tuned to the human voice.

C414BULS studio condenser microphone
Mfr. List $1,165.00 ONLY $799.00

**AKG C3000B**

Type: large diaphragm electret condenser. Pickup Pattern: cardioid. Features: true 1" diaphragm; gold-sputtered membrane; 6 dB/octave bass roll-off switch; switchable 10 dB internal pad for use in high SPL environments; 3mm thick internal windscreen; includes elastic spider suspension. Optional Accessories: GS-5 windscreen.

C3000B studio condenser microphone
Mfr. List $520.00 ONLY $300.00

**ALESIS AM51/AM52**

The GT-series AM51 and AM52 offer the superb sound of high-end, large-diaphragm condenser microphones at prices broadcasters and project recording studios can afford. Using solid-state field effect transistor (FET) circuitry, they provide an extremely transparent representation of the acoustic signal, with no coloration and extremely low distortion and self-noise. Features: large diameter 3-micron gold-evaporated mylar diaphragm; switchable -10 dB pad; switchable low frequency roll-off (75 Hz); high SPL handling for very loud sources. The AM51 has a fixed cardioid polar pattern. The AM52 offers 3 switchable polar patterns: cardioid, omni and figure-8.

AM51 single-pattern FET studio microphone
Mfr. List $649.00 ONLY $499.00

AM52 multi-pattern FET studio microphone
Mfr. List $799.00 ONLY $599.00

**AUDIO TECHNICA AT4050/CM5**

The AT4050/CM5 is similar to the AT4033 (below) and adds omni-directional and figure-8 polar patterns. Features: remarkable combination of warm, transparent sound and super-high SPL capability; three switchable polar patterns; large-diaphragm design for extended frequency response; symmetrical direct-coupled electronics for excellent transient response and low distortion; switchable 80 Hz hi-pass filter and 10 dB pad; includes AT8441 spider shock mount.

AT4050/CM5 studio capacitor microphone w/ shock mount
Mfr. List $995.00 ONLY $599.00

**AKG C2000B**

The medium diaphragm (1/2") C2000B features a cardioid pickup pattern and is an excellent 'entry level' model for anyone looking for an affordable, high-quality cardioid recording microphone. It offers almost ruler-flat response providing a crystal-clear, "up-front" sound. Other features include switchable bass rolloff filter, a 100 dB preattenuation pad, a built-in pop screen, rugged construction and an elegantly styled die-cast metal housing with silver-gray finish.

C2000B studio condenser microphone
Mfr. List $298.00 ONLY $199.00

*Non-inventory item subject to return restrictions.*
Low Priced Studio Microphones

**AUDIX**

**CX101/CX111**
- Type: large capsule condenser
- Pickup Pattern: cardioid
- Features: very low noise floor (17 dBA), rugged brass housing with black satin finish, CX111 adds -10 dB pad and bass roll-off switch; both mics include a shock mount and aluminum carrying case. Optional Accessories: 2-channel phantom power supply and windscreens.

**AT4047SV**
- Audio-Technica's AT4047/SV studio mic is the perfect blend of classic sound and modern engineering. It offers the sonic characteristics reminiscent of early F.E.T. studio mics and delivers the consistent performance you've come to expect from A-T's 40 Series.
- Features:
  - Cardioid capacitor mic
  - Exceptionally low self-noise and wide dynamic range
  - Gold-plated dual diaphragms
  - Switchable 80 Hz hi-pass filter and 10 dB pad
  - Shock mount.

**BEYERDYNAMIC**

**M99**
- Type: dynamic
- Pickup Pattern: cardioid
- Features: large diaphragm neodymium specially tuned element, selectable equalization curves, excellent off-axis rejection, very low handling noise, robust sound, includes suspension mount.

**ELECTRO-VOICE**

**RE20**
- This dynamic cardioid studio mic is an industry staple and extremely durable. Its patented, Variable-D design eliminates bass-boosting proximity effect when close micing and its bass roll-off switch helps to shape low-end response. Frequency response is 45 to 18,000 Hz. Includes stand clamp. Optional Accessories: 309A spider shock mount; WS1 windscren.

**NEUMANN**

**TLM103**
- TLM103 is an ideal large diaphragm mic for professional applications requiring superb sound quality on a limited budget. By utilizing the tried and true transformerless circuit found in numerous Neumann microphones, the TLM103 offers low self-noise (7 dBA) and the highest sound pressure level transmission. This condenser mic features a cardioid pickup pattern and includes a swivel mount. A wooden box is also included. Optional Accessories: EA103 spider shock mount; WS87 windscren.

**MARSHALL**

**MXL2003**
- The MXL2003 cardioid condenser is intended for the most critical recording applications where treble frequency, presence and detail are required. The 1.06' capsule is coupled through an electromagnetic screen to a FET preamp with a wideband transformerless output. It also comes complete with a high isolation shockmount (MXL56).

**SUPERLUX**

**CM-H8B**
- Looking for a wonderful large diaphragm microphone at an affordable price? The Superlux CM-H8B cardioid condenser studio microphone has a switchable -10 dB pad and external bass roll-off. Includes stand mount and case.

**MARSHALL**

**MXL2001P**
- Here's an ideal mic for projects demanding world-class sound at an affordable price. The large capsule (1'), gold-sputtered diaphragm condenser adds tremendous clarity, presence and detail to your vocals. Cardioid pick-up pattern and bass cut. Optional shock mount available.

**MARSHALL**

**MXL2003**
- The MXL2003 cardioid condenser is intended for the most critical recording applications where treble frequency, presence and detail are required. The 1.06' capsule is coupled through an electromagnetic screen to a FET preamp with a wideband transformerless output. It also comes complete with a high isolation shockmount (MXL56).
Remains the Broadcast Standard

World class headsets, a full range of shotgun microphones, some of the world’s finest lavaliers, state of the art ENG/EFP interview microphones, on-air and voice-over microphones.

For 77 years a quality manufacturer of broadcast products.

For more information contact www.beyerdynamic.com
**NEUMANN**

**TLM193**

TLM193 Type: large diaphragm, double membrane condenser. Pickup Pattern: cardioid. Features: very low self noise (10 dB); extremely clear, warm sound; 130 dB dynamic range; precision German craftsmanship; includes swivel mount and wooden box. Optional Accessories: EA87 spider shock mount; WS87 windscreen.

TLM193

- Single-pattern studio condenser mic
- Mfr. List $1,195.00
- **ONLY $936.00**

**NEUMANN**

**U87Ai**

U87Ai Type: large diaphragm condenser. Pickup Patterns: cardioid, omnidirectional and figure-8. Features: exceptional warmth and clarity; 115 dB dynamic range; 20 to 20,000 Hz frequency range. Optional Accessories: EA87 spider shock mount (also sold together with cable and windscreen as Set Z); SG367 swivel mount; WS87 windscreen.

U87Ai

- Multi-pattern studio condenser mic
- Mfr. List $2,625.00
- **ONLY $1,932.00**

**RODE**

**NT1**

Type: large diaphragm condenser. Pickup Pattern: cardioid. Features: low noise transformerless FET circuitry; gold plated diaphragm membranes; pop filtering; 135 dB dynamic range; frequency response 20 to 20,000 Hz; plastic flight case.

NT1

- Studio condenser mic
- Mfr. List $349.00
- **ONLY $199.00**

**RODE**

**NT2**

Type: large diaphragm condenser. Pickup Pattern(s): omnidirectional and cardioid. Features: gold plated diaphragm membranes; high-pass filter; -10 dB pad; frequency response 20 to 20,000 Hz. Optional Accessories: SM1 shock mount; windscreen; aluminum flight case.

NT2

- Studio condenser mic
- Mfr. List $649.00
- **ONLY $399.00**

**SHURE**

**KSM44/KSM32**

The new KSM44 is a multiple pattern (cardioid, omnidirectional, bidirectional), externally biased, dual large diaphragm condenser microphone with extremely low self-noise (7dB). Developed to meet the needs of studio recording musicians, the warm, rich sound of the KSM44 delivers exceptional performance, tailored to deliver vivid reproduction of voice for the most critical recordings. Features: dual 1-inch, externally biased, ultra-thin, 2.5 micron, gold-layered Mylar diaphragms; Class A, discrete, transformerless preamplifier for transparency, fast transient response and no crossover distortion; full range frequency response (20 Hz - 20 kHz) for an extremely accurate reproduction of voice and instruments; extremely low self noise (7dB); subsonic filter eliminates rumble from mechanical vibration below 17 Hz; 15 dB attenuation switch for handling high input SPL sound sources; 3-position switchable low-frequency filter virtually eliminates unwanted background noise and controls proximity effect; integrated three-stage pop protection grille; an internal shock mount; includes elastic suspension shock mount, swivel mount, protective velvet pouch, aluminum carrying case.

- KSM44SL
  - Studio condenser mic
  - Mfr. List $1,340.00
  - **ONLY $699.00**
- KSM32SL
  - Studio condenser mic
  - Mfr. List $1,029.00
  - **ONLY $588.00**

**SHURE**

**SM7B**

An all-time favorite, the Shure SM7B dynamic cardioid microphone is known for its warm sound and unpronounced proximity effect. Features: classic cardioid polar pattern, uniform with frequency and symmetrical about axis, to provide maximum rejection and minimum coloration of off-axis sound; flat, wide-range frequency response for exceptionally clean and natural reproduction of both music and speech; bass rolloff and mid-range emphasis (presence boost) controls with graphic display of response setting; improved rejection of electromagnetic hum, optimized for shielding against broadband interference emitted by computer monitors; internal "air suspension" shock isolation virtually eliminates mechanical noise transmission. The SM7B now ships with the original windscreen plus optional doughnut and spider shockmounts.

SM7B

- Studio dynamic microphone
- Mfr. List $599.00
- **ONLY $445.00**
- Doughnut shock mount
- Mfr. List $59.00
- **ONLY $50.00**
- Spider shock mount
- Mfr. List $250.00
- **ONLY $195.00**

SHURE KSM44/KSM32

Senders set out to design this latest edition of their very rugged Shure SM7B condenser microphone. They worked in cooperation with on-air personalities and broadcast engineers to create a sound just for radio. The affordable R-1 offers the rich, clear and articulate voice reproduction broadcasters require. And its low self-noise ensures compatibility with today's digital recording and delivery systems. Features: 1" diaphragm; transformerless FET circuitry; frequency range 20 Hz to 18 kHz; dynamic range 126 dB; internal pop filter; wood box; optional doughnut and spider shockmounts.

R-1

- Studio condenser microphone
- Mfr. List $999.00
- **ONLY $455.00**
- Doughnut shock mount
- Mfr. List $199.00
- **ONLY $50.00**
- Spider shock mount
- Mfr. List $250.00
- **ONLY $195.00**

Now also includes large windscreen like the classic Shure SM58!
Carefully interwoven technologies.

Like no other microphone you've ever used.

The KSM44 multi-pattern studio condenser captures the essence of sound. Three polar patterns and an externally biased dual-diaphragm design let you record any situation with incredibly low self-noise (7 dB). Once you listen with the KSM44, you'll discover a uniqueness that makes recordings stick. To join the growing number of KSM44 enthusiasts, call 1-800-426-8434 or visit www.shure.com.
**Microphones**

**Handheld Microphones**

**AUDIO TECHNICA**

**AT804**
Type: dynamic. Pickup Pattern: omnidirectional. Features: excellent interview mic; super rugged construction; frequency response 50 Hz to 15 kHz; includes stand clamp and carrying bag. Optional Accessories: W5600 series windscreen; M10 mic cable; IC6 interview cable (XLR/mini).

**Mfr. List $110.00**

**ONLY $77.00**

**AUDIX**

**OM6/OM5**
OM6 Type: dynamic. Pickup Pattern: hyper-cardioid. Features: designed for voice; high output with natural, undistorted sound; extended low end response; high SPL levels without distortion; very low handling noise; superior off-axis rejection. Optional: WS900 series windscreen; M25 cable.

OM5 is lower price, but lacks some of the extended low end response of the Audix OM6.

**Mfr. List $349.00**

**ONLY $235.00**

**BEYERDYNAMIC**

**TGX58**
Here's an excellent entry level handheld vocal mic at a very affordable price. It offers a supercardioid polar pattern and high gain before feedback, allowing it to perform well in close proximity to live monitor speakers. Additional features include a special soft lacquer finish on the mic barrel and a locking ON/OFF switch.

**Mfr. List $180.00**

**ONLY $99.00**

**ELECTRO-VOICE**

**RE16**
If you're looking for a quality mic for precise pickup and fine audio reproduction, try the RE16. The supercardioid model features wide, flat response with minimal off-axis coloration. Type: dynamic. Pickup Pattern: super-cardioid. Features: frequency response 80 Hz to 15 kHz; includes stand clamp. Optional Accessories: W5300 series windscreen.

**Mfr. List $334.00**

**ONLY $220.00**

**SHURE**

**SM57LC**
The classic SM57's carefully contoured frequency means rich, warm vocal pickup and clean, well defined instrumental reproduction. It's especially popular as an affordable dynamic podium mic. Choose it for your next press conference or speaking engagement. Pickup Pattern: cardioid. Features: rugged construction; frequency response 40 to 15,000 Hz; includes stand clamp and protective vinyl pouch. Optional Accessories: W55700 series windscreen; M25 mic cable.

**Mfr. List $146.00**

**ONLY $79.00**

**ELECTRO-VOICE**

**N/D267A / N/D767A**
N/D267 Type: dynamic. Pickup Pattern: cardioid. Features: large diaphragm for extended frequency response; tuned for vocal clarity; multistage shock mount for very low handling noise; includes stand clamp and soft carry bag. N/D767A adds a bass roll-off switch and a gentle rise in mid-frequencies.

**Mfr. List $349.00**

**ONLY $235.00**

**BEYERDYNAMIC**

**MCE58/M58**
The Beyer MCE58 omnidirectional condenser mic has an internal shock mount to dramatically reduce handling noise and offers very accurate voice reproduction. Frequency response is 40 Hz to 20 kHz. It also has an on/off switch (great for DAT and MD recording) and includes windscreen and case.

M58 is the popular handheld dynamic version without on/off switch.

**Mfr. List $256.00**

**ONLY $169.00**

**SM58S**

**Mfr. List $334.00**

**ONLY $220.00**

**ELECTRO-VOICE**

**RE50B/RE50DB**

**Mfr. List $256.00**

**ONLY $169.00**

**SM58S**

**Mfr. List $280.00**

**ONLY $185.00**

**ELECTRO-VOICE**

**635A**
Electro-Voice's popular dynamic interview mic features an omni-directional pickup pattern, voice-tailed response and extra rugged construction at a price that'll make you smile. Includes stand clamp and unterminated cable.

**Mfr. List $172.00**

**ONLY $103.00**

**SHURE**

**SM58LC/SM58S**
This popular and affordable handheld mic is just what you need for remote events, music gigs or speaking engagements. It features a cardioid pickup pattern, distinctive vocal presence peak and integral windscreen. Type: dynamic. Features: includes stand clamp and case. Optional Accessories: W5900 series windscreen; M25 mic cable. SM58S adds an on/off switch.

**Mfr. List $188.00**

**ONLY $79.00**

**SM58S**

**Mfr. List $196.00**

**ONLY $110.00**

*Non-inventory item subject to return restrictions.*
FIRST CHOICE FOR EVERY VOICE

You've spent years perfecting your voice with just the right articulation and timbre to get you into broadcast. You need a microphone that faithfully delivers that sound to your audience. That's why broadcasters everywhere choose the Electro-Voice RE20 and RE27N/D. Their wide-band response and Variable-D® design delivers an outstandingly clear performance every time. Variable-D® eliminates the up-close "proximity effect" bass boost that makes other directional microphones sound "muddy."

Why not check out EV's entire family of problem-solving broadcast microphones. Every one guaranteed unconditionally against malfunction from even accidental abuse, for two years from the date of purchase. The first choice of professionals...

EVERY TIME, EVERYWHERE.

www.electrovoice.com
Handheld Microphones

**SHURE**

**BETA87A/BETA87C**  
Type: condenser. Pickup Pattern: supercardioid. Features: studio quality sound for live vocals; excellent gain before feedback; sleek body design is perfect for handheld use; 3-stage pop filter; requires phantom power. Optional Accessories: WS900 series windscreen.  
The BETA87C has a less accentuated HF peak than the B7A. Cardioid pickup pattern.

- **BETA87A** handheld supercardioid microphone  
  Mfr. List $445.06  
  ONLY $249.00

- **BETA87C** handheld cardioid microphone  
  Mfr. List $455.08  
  ONLY $249.00

**SHURE**

**BETA58A**  
Type: dynamic. Pickup Pattern: supercardioid. Features: warmth of an original SM58 with an even smoother presence rise and extended top end; superior shock isolation and tight polar pattern help eliminate unwanted handling and background noise; includes stand clamp and case. Optional Accessories: WS900 series windscreen; M25 mic cable.

- **BETA58A** handheld dynamic microphone  
  Mfr. List $288.85  
  ONLY $159.00

**SHURE**

**VP64A/VP64AL**  
The affordable Shure VP64A omni-directional interview mic sounds great and is extremely rugged. Its neodymium magnet provides increased output and improved clarity. A windscreen and stand clamp are included. Type: dynamic. Optional Accessories: M10 mic cable; IC6 interview cable.  
VP64AL has longer (9 5/8") handle.

- **VP64A** handheld dynamic mic  
  Mfr. List $120.36  
  ONLY $68.00

- **VP64AL** handheld dynamic mic  
  Mfr. List $140.76  
  ONLY $79.00

**ACE**

**MB-12**  
The MB-12 nylon bag keeps 12 mics protected in foam and includes accessory compartments.

- **MB-12** 12-microphone carry case  
  Mfr. List $199.95  
  ONLY $73.00

Specialty Microphones

**AUDIO TECHNICA**

**AT815ST/AT835ST**  
These special purpose mics (in either long or short shotgun) are affordable and offer superb audio pickup. Features: compact, lightweight design is perfect for camera-mount use; independent line-cardioid and figure-8 condenser elements; switchable low-frequency roll-off; switch selection of non-matrixed M-S mode and two internally-matrixed left/right stereo modes.  
AT815B/AT835B are economical mono shotgun microphones.

- **AT815ST** long stereo shotgun microphone  
  Mfr. List $999.00  
  ONLY $799.00

- **AT835ST** short stereo shotgun microphone  
  Mfr. List $899.00  
  ONLY $719.00

- **AT815B** long mono shotgun microphone  
  Mfr. List $399.00  
  ONLY $277.00

- **AT835B** short mono shotgun microphone  
  Mfr. List $329.00  
  ONLY $228.00

**AUDIO TECHNICA**

**AT825/AT822**  
Type: condenser. Pickup Pattern: X/Y stereo. Features: fully mono compatible; 220° pickup field; LF roll-off switch; AA battery/phantom powering; AT825 has dual XLR output cable; AT822 has dual mini plug and stereo mini plug output cables (perfect for portable DATs and video cams). Mics include windscreen, mic clip and vinyl pouch.

- **AT825** stereo condenser mic  
  Mfr. List $525.00  
  ONLY $364.00

- **AT822** stereo condenser mic  
  Mfr. List $399.00  
  ONLY $277.00

**BEYERDYNAMIC**

**MCE82**  
Type: condenser. Pickup Pattern(s): two condenser capsules with cardioid polar patterns. Features: angular width 90° (± 45° of the microphone axis); elastic transducer suspension system; switchable bass roll-off switch; battery or phantom powered; LED indicator for battery condition.

- **MCE82** stereo condenser mic  
  Mfr. List $749.00  
  ONLY $600.00

*Non-inventory item subject to return restrictions.*
**BEYERDYNAMIC**

**MC837PV**
Beyer's popular shotguns include the 20-inch long MC837PV hypercardioid/lobe condenser with very wide frequency response and 12 dB attenuation switch. Features: low self noise; superb off-axis noise rejection; phantom power supply.

*MC837PV*  
Mfr. List $1,479.00  
**ONLY $1,184.00**

**MCE865.1**
Type: condenser shotgun. Pickup Pattern(s): lobe/hypercardioid. Features: high sensitivity; superb off-axis rejection; non-reflective finish; supplied with shockmount and stand clamp. Optional Accessories: fishpole booms, blimp windscreen and various shockmounts, battery/phantom/XLR. Call for prices today.

*MCE865.1*  
shotgun microphone  
Mfr. List $529.00  
**ONLY $424.00**

**ELECTRO-VOICE**

**ENG618**
This professional boom mic extends to 6 feet and is easy to hold (and it's extremely lightweight, only 2 lbs.). It's also highly directional and offers coverage from 18 inches to 25 feet. The Electro-Voice condenser microphone can be phantom or battery powered. The unit also offers a built-in headphone amp with adjustable gain. Type: condenser. Pickup Pattern: hypercardioid.

*ENG618*  
boom microphone  
Mfr. List $1,534.00  
**ONLY $1,010.00**

**SHURE**

**SM89**
Type: condenser shotgun. Pickup Pattern: supercardioid. Features: natural sound; unique post design which decreases off-axis coloration; ultra-light construction; includes windscreen and carrying case. Optional Accessories: A89SM shock mount.

*SM89*  
shotgun microphone  
Mfr. List $1,134.65  
**ONLY $631.00**

**VP88**
Type: condenser. Pickup Pattern: M-S stereo. Features: adjustable stereo width control and direct mid and side element output; fully mono compatible; includes windscreen, stand clamp and XLR cable. Requires phantom power or internal 6-volt battery. Optional Accessories: A88SM shock mount; A88ZK zeppelin windscreen kit.

*VP88*  
sterro microphone  
Mfr. List $1,217.88  
**ONLY $682.00**

**SENNSHEIER**

**ME66**
The Sennheiser ME66 supercardioid condenser shotgun mic features extremely high sensitivity, low self-noise and high-frequency boost for greater clarity on long range pickup. BSW also has all the accessories you need so you can completely outfit your mic. Call today for prices. Options: K6 power supply (required); blimp windscreen; shockmount; pistol grip.

*ME66*  
short shotgun microphone  
Mfr. List $1,850.00 ONLY $1,500.00

*MZH60P48*  
short shotgun microphone  
Mfr. List $1,600.00 **ONLY $1,280.00**

**MKH70/MKH60**
The MKH70/48 is Sennheiser's long 16-inch shotgun with lobar pickup. High-end features include switchable treble emphasis, switchable roll-off filter, infrasonic cut-off and ultra-low inherent self-noise. MKH60 is the shorter 11-inch shotgun with both supercardioid and lobar pickup patterns. Optional Accessories: phantom power supplies, windscreens; shockmounts; pistol grip.

*MKH70/48*  
long shotgun microphone  
Mfr. List $1,850.00 **ONLY $1,500.00**

*MKE2-60/K6*  
short shotgun microphone  
Mfr. List $1,600.00 **ONLY $1,280.00**

**SHURE**

**SM89**
Type: condenser shotgun. Pickup Pattern: supercardioid. Features: natural sound; unique post design which decreases off-axis coloration; ultra-light construction; includes windscreen and carrying case. Optional Accessories: A89SM shock mount.

*SM89*  
shotgun microphone  
Mfr. List $1,134.65  
**ONLY $631.00**

**VP88**
Type: condenser. Pickup Pattern: M-S stereo. Features: adjustable stereo width control and direct mid and side element output; fully mono compatible; includes windscreen, stand clamp and XLR cable. Requires phantom power or internal 6-volt battery. Optional Accessories: A88SM shock mount; A88ZK zeppelin windscreen kit.

*VP88*  
sterro microphone  
Mfr. List $1,217.88  
**ONLY $682.00**

**SENNSHEIER/SHURE**

**AT8038**
condenser omni lavalier offers high intelligibility for vocal reproduction at low cost. The Audio-Voice RE89L is a popular condenser omni with 50 to 18,000 Hz frequency range. The Sennheiser MKE2-60/K6 condenser omni comes with a permanently attached steel reinforced cable and XLR connector for phantom power. The Sennheiser K6 power supply is included. The new Shure WL50 electret condenser features an omnidirectional pickup pattern and allows for different sensitivities and interchangeable equalization caps for optimal clarity and response. Ask our sales professionals to help you get the data one for your application.

*AT8038*  
lavalier microphone  
Mfr. List $190.00  
**ONLY $132.00**

*RE89L*  
lavalier microphone  
Mfr. List $242.00  
**ONLY $160.00**

*MKE2-60/K6*  
lavalier mic system with power supply  
Mfr. List $647.00  
**ONLY $455.00**

*WL50*  
lavalier mic  
**CALL FOR PRICE**
### Microphone Preamplifiers

**ART PRO MPA/DUAL MP 254**

PRO MPA is ART's flagship stereo vacuum tube preamp. Two hand-selected 12AX7A tube gain stages provide over 70 dB of superior tube warmth and punch, monitored by full VU and tube character metering. Variable input, output, and high-pass filtering is augmented by switchable gain, phase reverse and phantom power. Balanced XLR and unbalanced 1/4" I/O.

<table>
<thead>
<tr>
<th>Model</th>
<th>Feature</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;210&quot; ART</td>
<td>dual tube microphone preamp</td>
<td>ONLY $539.00</td>
</tr>
<tr>
<td>254</td>
<td>dual microphone preamp</td>
<td>ONLY $295.00</td>
</tr>
</tbody>
</table>

**ART TUBE MP STUDIO**

The Tube MP Studio features: analog VU meter; output protection limiter; 12AX7A vacuum tube; variable input and output gain controls; provides over 60 dB of gain; +48 phantom power switch; phase reversal switch; XLR and 1/4" inputs and outputs.

<table>
<thead>
<tr>
<th>Model</th>
<th>Feature</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>TUBE M P</td>
<td>tube mic preamp w/ limiter and VU</td>
<td>ONLY $125.00</td>
</tr>
</tbody>
</table>

**ATI ML200**

The ATI ML200 is high-quality mic preamplification in a compact package. Features: flat frequency response; servo balanced line outputs (+12 dBm); front panel selection of phantom power (regulated +20VDC, optional 48VDC available); input/output peak flasher; independent front-panel gain controls. Power supply sold separately.

<table>
<thead>
<tr>
<th>Model</th>
<th>Feature</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>ML200</td>
<td>dual microphone preamp</td>
<td>ONLY $299.00</td>
</tr>
<tr>
<td>WA100-1</td>
<td>power supply</td>
<td>CALL FOR BEST PRICE</td>
</tr>
</tbody>
</table>

**BENCHMARK MICMANJR**

The MicMan Jr. is a high-quality stereo microphone preamp system. Its low noise and wide range make it ideal for portable situations where unknown sound pressure levels are expected. Features: stereo or dual preamplification; internal battery and external AC power; up to 8 hours operation with alkaline batteries; front-panel gain controls and max gain limit trim; LED power indication; balanced XLR I/Os.

<table>
<thead>
<tr>
<th>Model</th>
<th>Feature</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>MICMANJR</td>
<td>microphone preamp</td>
<td>ONLY $385.00</td>
</tr>
</tbody>
</table>

**DBX 386**

The dbx 386 two-channel mic preamp provides unparalleled flexibility in an affordable package. By combining the warmth and coloring of dual 12UA7 vacuum tubes, with the proprietary dbx Type IV™ conversion system; the dbx 386 is the perfect cross-platform tool for digital and analog applications. It boasts a plethora of high-end features including digital output in both AES/EBU and S/PDIF formats. Features: 200 tube plate voltage; 75 Hz low-cut filter; phase reverse; 60 dB of gain and +/- 15 dB of output gain; selectable mic/line switch; 48 V phantom power; 20 dB pad; selectable 96, 88.2, 48 or 44.1 kHz; XLR and 1/4" TRS analog I/Os; AES/EBU and S/PDIF digital outputs; word clock sync input and output.

<table>
<thead>
<tr>
<th>Model</th>
<th>Feature</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>386</td>
<td>tube microphone preamp</td>
<td>ONLY $499.00</td>
</tr>
</tbody>
</table>

**DBX MP20**

MP20 is the dbx MP20, a two-channel Class-A discrete, dual servo, microphone preamplifier with a stereo mix buss. Features: 20 dB pad, 48V phantom power; 80 Hz roll-off filter; polarity reverse; 1/4" level control can be used for full control over stereo imaging (mix output connectors are XLR balanced); XLR balanced input/output connectors as well as separate send and return jacks for inserting dynamics processors.

<table>
<thead>
<tr>
<th>Model</th>
<th>Feature</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>MP20</td>
<td>2-channel microphone preamp</td>
<td>ONLY $499.95</td>
</tr>
</tbody>
</table>

**RANE DMS22**

The Rane DMS22 is a two-channel mic preamp featuring 20 dB pad, +48V phantom power, selectable 150/500/1000 Hz low-cut filter, 48V phantom power, polarity swap, 26 dB of gain, balanced XLR and TRS outputs.

<table>
<thead>
<tr>
<th>Model</th>
<th>Feature</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMS22</td>
<td>mic preamp</td>
<td>ONLY $414.00</td>
</tr>
</tbody>
</table>

**SOUND DEVICES MP1**

This superb mic preamp by Sound Devices delivers studio-quality sound in the field on two "AA" batteries. Designed for high-bandwidth 96 kHz, 24-bit digital production, this device has a dynamic range that exceeds 120 dB, a bandwidth of more than 50 kHz and selectable phantom power. It's built like a tank, but weighs only 1.2 lbs. Features: maximum 66 dB of gain, adjustable in eleven steps; dual-stage, extended range peak limiter; selectable 12 and 48-volt phantom power; 6 dB per octave high-pass filter selectable at 80 and 160 Hz, aluminum chassis.

<table>
<thead>
<tr>
<th>Model</th>
<th>Feature</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>MP1</td>
<td>microphone preamp</td>
<td>CALL FOR PRICE</td>
</tr>
</tbody>
</table>

**SYMETRIX 3025**

Designed for broadcast, sound reinforcement, and digital and analog recording, the Symetrix 302 offers substantial sonic improvement over stock mixers or console preamps. It features solid state imaging, excellent transient response, very low noise and almost undetectable distortion. Features: polarity reversal switches and selectable 15/50/100 Hz low-cut filter; +48 V phantom power; gain variable from 20 to 60 dB; works with virtually any professional microphone.

<table>
<thead>
<tr>
<th>Model</th>
<th>Feature</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>3025</td>
<td>microphone preamp</td>
<td>CALL FOR PRICE</td>
</tr>
</tbody>
</table>

**SYMETRIX 306**

The 306 is a streamlined paging/foreground music front-end with comprehensive ducking controls. Separate threshold, depth, hold and release adjustments allow precise modulation of program material in the presence of a page. Features: output gain adjustable over a ± 20 dB range; XLR mic/line in for paging systems with switchable phantom power available for condenser mics; stereo RCA line input for foreground music and program sources.

<table>
<thead>
<tr>
<th>Model</th>
<th>Feature</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>306</td>
<td>microphone preamp/ducker</td>
<td>CALL FOR PRICE</td>
</tr>
</tbody>
</table>

*Non-inventory item subject to return restrictions.*
**AUDIO TECHNICA**

**CP8201**

This device from Audio Technica matches low-impedance microphones to high-impedance electronic inputs (250-50,000 ohms). It permits the use of long microphone cables and maintains high-frequency response while reducing noise pickup. Call BSW today.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Mfr. List</th>
<th>Special Offer</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP8201</td>
<td>impedance transformer</td>
<td>$20.00</td>
<td>ONLY $16.00</td>
</tr>
</tbody>
</table>

**CRYSTAL BIG EARS**

Big Ears is a true parabolic reflector capable of picking up sounds from well over 200 feet away. At approximately 25" diameter and only 5 lbs., it's perfect for sports casting, films, ENG, theater, surveillance and news gathering. Made of a patented Kevlar, Butyrate and Acrylic combination, it offers remarkable clarity over a wide frequency range. It consists of two acoustic screens with a ball and socket precision positioning system that mounts on a clamp and gooseneck for VAC6 or at the end of a mic stand. You control the precision positioning system that mounts on a clamp and gooseneck for VAC6.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Mfr. List</th>
<th>Special Offer</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>BIGEARS</em></td>
<td>parabolic reflector</td>
<td>$1,329.00</td>
<td>ONLY $1,293.00</td>
</tr>
<tr>
<td><em>LITTLEEARS</em></td>
<td>parabolic reflector</td>
<td>$879.00</td>
<td>ONLY $854.00</td>
</tr>
</tbody>
</table>

**MIDDLE ATLANTIC**

**GS5**

The GS5 is an effective way to reduce or eliminate P-popping without sound coloration. Features: double nylon screen for superior performance; unobtrusive black 5" filter frame; 13" black gooseneck; brass tipped locking screw prevents scratching of mic stands.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Mfr. List</th>
<th>Special Offer</th>
</tr>
</thead>
<tbody>
<tr>
<td>GS5</td>
<td>mic pop stopper</td>
<td>$27.00</td>
<td>ONLY $17.00</td>
</tr>
</tbody>
</table>

**POPLESS VAC SERIES**

VAC™ is an adjustable pop filter for upgrading the quality of your vocals. The VAC system goes between the vocalist and the microphone, functioning as a variable acoustic compressor, filtering out popping and sibilance. It consists of two acoustic screens with a ball and socket precision positioning system that mounts on a gooseneck or at the end of a mic stand. You control the amount pop and sibilance filtering by using just one screen or adding the second screen and adjusting the distance between them.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Mfr. List</th>
<th>Special Offer</th>
</tr>
</thead>
<tbody>
<tr>
<td>VAC3.5</td>
<td>3.5 inch diameter screen</td>
<td>$36.00</td>
<td>ONLY $28.00</td>
</tr>
<tr>
<td>VAC3.5C</td>
<td>clamp and gooseneck for VAC3.5</td>
<td>$59.00</td>
<td>ONLY $45.00</td>
</tr>
<tr>
<td>VAC6</td>
<td>6 inch diameter screen</td>
<td>$36.00</td>
<td>ONLY $28.00</td>
</tr>
<tr>
<td>VAC6C</td>
<td>clamp and gooseneck for VAC6</td>
<td>$59.00</td>
<td>ONLY $45.00</td>
</tr>
</tbody>
</table>

**POPLESS VACRE20**

The VAC-RE20 model is specifically designed to attach to the Electro Voice RE20 Microphone and its 309/A shock mount (one of the radio broadcast industry standard setups.) Simply unscrew one of the thumbscrews on either side of the shock mount, install the VAC-RE20 and put the screw back. The VAC-RE20 tracks the microphone as it is moved. Each DJ can have their own set of screens and "pop" them in for their air time, especially helpful during flu season.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Mfr. List</th>
<th>Special Offer</th>
</tr>
</thead>
<tbody>
<tr>
<td>VACRE20</td>
<td>pop filter for EV RE20 or RE27N/D</td>
<td>$46.00</td>
<td>ONLY $33.00</td>
</tr>
</tbody>
</table>

**PROCO COUGHDROP**

Quick, hit the cough button! The Cough Drop from ProCo is a simple mic mute offering clear, reliable performance with nearly any balanced or floating low impedance (150Ω nominal) microphone or signal source.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Mfr. List</th>
<th>Special Offer</th>
</tr>
</thead>
<tbody>
<tr>
<td>COUGHDROP</td>
<td>mic mute switch box</td>
<td>$55.00</td>
<td>ONLY $42.00</td>
</tr>
</tbody>
</table>

**PROCO MS42A/MC2**

MS42A has 4 channels with single female XLR input and 2 isolated XLR male outputs. Output ground lift switches. MC2 with 2 female XLR Ins, 1 male XLR out with input polarity reverse switch.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Mfr. List</th>
<th>Special Offer</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS42A</td>
<td>microphone splitter</td>
<td>$33.00</td>
<td>ONLY $23.00</td>
</tr>
<tr>
<td>MC2</td>
<td>microphone combiner</td>
<td>$129.00</td>
<td>ONLY $91.00</td>
</tr>
</tbody>
</table>

**RD1 STAMC3**

STAMC3 is an active mic combiner. STAMPA2 is a phantom power supply.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Mfr. List</th>
<th>Special Offer</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAMC3</td>
<td>active mic combiner</td>
<td>$117.00</td>
<td>ONLY $96.00</td>
</tr>
<tr>
<td>STAMPA2</td>
<td>mic phantom power module</td>
<td>$85.00</td>
<td>ONLY $69.00</td>
</tr>
</tbody>
</table>

**ULTRALIFE U9VL-FP**

Ultralife lithium batteries offer superior performance and last up to 4 times longer than alkaline 9-volt batteries. Make sure you pack them in all your remote equipment.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Mfr. List</th>
<th>Special Offer</th>
</tr>
</thead>
<tbody>
<tr>
<td>U9VL-FP</td>
<td>Battery Ultralife Lithium</td>
<td>$7.99</td>
<td>ONLY $7.99</td>
</tr>
</tbody>
</table>

* Non-inventory item subject to return restrictions.
Microphone Accessories

WINDTECH WINDSCREENS

WindTech windscreen accessories are high-quality, cost-effective, and come in a variety of colors and fit most studio microphones. These screens are made of an open-cell, hypo-allergenic foam that won’t color sound, yet provide maximum protection against wind noise and P-popping. The nature of their composition makes them long-lasting, holding their shape and color even after washing. Just call BSW, specify the mic you are using and the color you prefer.

Series | Description | Inside Diameter | ONLY
---|---|---|---
WS1 | X-large cylindrical | 2" | $33.75
*900 | large spherical | 1 5/8" | $4.96
300 | regular spherical | 1 3/8" | $4.82
600 | small spherical | 1" | $4.38
*5700 | squared cylindrical | 1" | $4.38
*1200 | large cylindrical | 3/4" | $4.16
*1300 | small cylindrical | 5/8" | $3.93
*500 | podium | 1/2" | $3.75
*1100 | lapel | 1/4" | $3.63
*1500 | round lavaliere | 3/8" | $3.75
*2300 | mini round lavaliere | 3/16" | $3.36
*2100 | teardrop | 1/4" | $3.90

AKG
E. KM231/1
This portable tabletop tripod mic stand is lightweight and collapses to fit easily into any equipment bag or briefcase. Take at least one on every remote.

KM231/1 desktop microphone stand
Mfr. List $13.00  **ONLY $9.00**

ATLAS

F. DMS7E
Features an oversized 10" cast iron base providing maximum stability for larger studio mics and boom attachments. Adjustable height 8"-13".

DMS7E desktop microphone stand
Mfr. List $43.00  **ONLY $25.00**

G. DS2
Non-adjustable 3" high chrome tube. Non-reflective 4"x 6" charcoal base.

DS2 desktop microphone stand
Mfr. List $47.00  **ONLY $27.00**

H. DS5
Non-adjustable 4" high chrome tube. 6" diameter cast iron charcoal base.

DS5 desktop microphone stand
Mfr. List $19.00  **ONLY $11.00**

I. DS7
This quality Atlas adjustable mic stand reaches from 8" to 13" for easy speaking without unnecessary or awkward crouching, and sits on a sturdy 6" diameter base. Grip-action clutch easily secures height adjustment. Order today.

DS7 desktop microphone stand
Mfr. List $31.00  **ONLY $15.00**

QUIKLOK

J. A114
Heavyweight base and pivot feature allow for optimum placement of even heavy studio mics. Adjustable from 16 1/2" to 23 1/2".

A114 desktop microphone stand
Mfr. List $60.00  **ONLY $50.00**

LUXO

K. LUXO SERIES

LM1 is a 41" extended reach arm for mics weighing up to 1 pound. LM1-3 is the same basic arm, but holds heavier mics weighing up to 3 pounds. Available in oyster or black color. LM2 is a 36" reach arm for mics weighing up to 2 pounds (gray only). Please specify color when ordering.

LM1 mic boom holds 1 lb.  Mfr. List $100.00  **ONLY $67.00**

LM1-3 heavy duty mic boom holds 3 lbs.  Mfr. List $100.00  **ONLY $67.00**

LM2 26" reach mic boom holds 1 lb.  Mfr. List $100.00  **ONLY $89.00**

* Non-inventory item subject to return restrictions.
**Microphone Accessories**

**LUXO**

**L. MIC BOOM MOUNTS**

Mounting options for the Luxo Series Microphone Booms include a clamp style (model A), a wall mount (model B), desktop mount (model C) or a 12" aluminum extension model pedestal (model RISER not shown). Specify oyster, black, or when ordering. The RISER may also be provided unpainted.

- **A.** clamp/vise mount for Luxo LM mic booms
  - Mfr. List $14.00  
  - ONLY $12.00

- **B.** wall mount for Luxo LM mic booms
  - Mfr. List $14.00  
  - ONLY $12.00

- **C.** desk mount for Luxo LM mic booms
  - Mfr. List $14.00  
  - ONLY $12.00

- **RISER**
  - mic boom extender
  - Mfr. List $24.95  
  - ONLY $20.00

**O.C. WHITE**

**M. 51900/519003**

14194 is a top-quality 29" heavy-duty mic boom and the 14199 is the 45" version. 51900 adds a 12" riser to the 14194. 519003 is a three-boom system with 14194 booms.

- **14194** 29" mic boom less riser
  - Mfr. List $99.00  
  - ONLY $71.00

- **14199** 45" mic arm less riser
  - Mfr. List $130.00  
  - ONLY $93.00

- **51900** 37" mic boom with 12" riser
  - Mfr. List $160.00  
  - ONLY $109.00

- **519003** triple mic arm system
  - Mfr. List $399.00  
  - ONLY $286.00

**WINDTECH**

**N. MPC10**

The Windtech MPC10 allows mics to be mounted just about anywhere. Fits up to 1-1/4" round members or up to 1-1/2" flat surfaces. Mic threads rotate to 3 positions.

- **MPC10** multi position mic clamp
  - Mfr. List $14.00  
  - ONLY $13.00

**ATLAS**

**AD11B/BC1/CH1B**

AD11B is a 5/8"-27 female flange with 1 3/4" base diameter. Chrome or black. BC1 is a bracket-style clamp with 6" chrome tube attaches to tables, countertops, furniture, etc. Use CH1B to hang collared mic cables or head phones on mic stand.

- **Q. AD11B** flanged adaptor
  - Mfr. List $8.00  
  - ONLY $5.00

- **P. BC1** bracket clamp
  - Mfr. List $32.00  
  - ONLY $19.00

- **Q. CH1B** cable hanger
  - Mfr. List $20.00  
  - ONLY $13.00

**WMS80/880**

This frequency agile UHF wireless system from AKG uses 4 broadcast frequency sets corresponding to television channels 54,55,58 and 59 each with 15 selectable frequencies. Features: adjustable operating frequency; adjustable output level; adjustable squelch; transmitter with 10 mW output power; battery status indicator.

- **WMS80/880** UHF wireless system
  - Mfr. List $662.00  
  - ONLY $449.00

* Non-inventory item subject to return restrictions.
**Wireless Microphones**

**AUDIO TECHNICA**

**ATWU102/ATWU101**

For quality audio transmission at very low cost, this Audio-Technica wireless system (ATWU102 consisting of a diversity receiver and plug-on transmitter) is an excellent choice. It offers 100 selectable PLL-synthesized channels; true diversity reception; operation in TV channels 57-59 to avoid interference; balanced audio output and rugged metal construction. For a body-pack wireless system (that can be used with your favorite wired mic with mini-XLR connector), order model ATWU101.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Mfr. List</th>
<th>Special Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATWU102</td>
<td>UHF plug-on wireless mic system</td>
<td>$1,099.00</td>
<td>ONLY $742.00</td>
</tr>
<tr>
<td>ATWU101</td>
<td>UHF beltpack wireless mic system</td>
<td>$1,049.00</td>
<td>ONLY $708.00</td>
</tr>
</tbody>
</table>

**AUDIO TECHNICA**

**7000 SERIES**

The 7000 series from Audio-Technica offers two low-cost UHF systems for guitar and vocals. Features: 100 PLL-synthesized channels selectable via switches on receiver and transmitter; True Diversity operation selects the better signal from two independent receiver sections, reducing drop-outs; interference-resistant UHF band operation; ground-lift switch and adjustable squelch control; balanced XLR and unbalanced 1/4" audio output jacks; operating range of 300 ft. typical. ATW-7376 includes receiver and handheld mic/transmitter featuring a dynamic element with internal shock mounting. ATW-7375 includes receiver and bodypack transmitter. ATW-7373 includes receiver and handheld mic with 4033 microphone element.

<table>
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</tr>
</thead>
<tbody>
<tr>
<td>ATW7376</td>
<td>UHF handheld wireless mic system</td>
<td>$599.00</td>
<td>ONLY $375.00</td>
</tr>
<tr>
<td>ATW7375</td>
<td>UHF bodypack wireless mic system</td>
<td>$575.00</td>
<td>ONLY $563.00</td>
</tr>
<tr>
<td>ATW7373</td>
<td>UHF handheld wireless mic w/4033</td>
<td>$1,149.00</td>
<td>ONLY $799.00</td>
</tr>
</tbody>
</table>

**ELECTRO-VOICE**

**N/DYM SERIES**

The N/DYM Series UHF wireless system is a 10-channel frequency-agile system that provides professional quality performance at a price you can afford! N/DYM wireless also features the latest in wireless technical innovations - ClearScan auto channel select. ClearScan greatly simplifies system set-up by automatically scanning and selecting a clear channel for trouble-free operation. The handheld system features EV's famous N/DYM elements for great sound and performance. Features: 10-channel UHF frequency agility; N/DYM elements; metal receiver housing; 8-10 performance hours of battery life; Secure-Phase" diversity for clear, drop-out-free audio; balanced, mic-level XLR output; adjustable squelch control.

<table>
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</tr>
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<tbody>
<tr>
<td>NRCU</td>
<td>UHF wireless rack mount receiver</td>
<td>$358.00</td>
<td></td>
</tr>
<tr>
<td>NHTU-N7</td>
<td>UHF handheld with N/D767A element</td>
<td>$215.00</td>
<td></td>
</tr>
<tr>
<td>RE90TX</td>
<td>UHF wireless transmitter w/ RE90 element</td>
<td>$144.00</td>
<td></td>
</tr>
</tbody>
</table>

**LECTROSONICS**

**200 SERIES**

Designed for television ENG, motion picture, studio and high-end production, the 200 series is considered industry standard equipment. By implementing more extensive audio processing circuitry, Lectrosonics maximizes dynamic range and frequency response and minimizes distortion and noise. An exclusive automatic high-freq. noise suppression circuit in the receivers eliminates noise in weak signal conditions to maximize operating range and eliminate dropouts in hostile RF environments. Features: 256 selectable frequencies; tracking front-end in the receivers; dual-band compandor; advanced diversity reception; computer interface on the studio receiver. The UDR200B is the rack mount version of the 200 Series receivers. The UCR205D is a compact receiver that can mount directly to a camera. It can be powered with AC via a transformer or with DC from the camera. The UCR210D is similar to the 205D, but can be powered with internal AA batteries. Receivers can be matched with 3 varieties of transmitters; all boasting 100 mW output power. The UH200 is the popular plug-on, the UM200B is a beltpack version and the UT200 is a handheld transmitter.

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</tr>
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<tbody>
<tr>
<td>UDR200B</td>
<td>UHF rack mount diversity receiver</td>
<td>$1,220.00</td>
<td>ONLY $1,220.00</td>
</tr>
<tr>
<td>UCR205D</td>
<td>UHF compact cam-mount receiver</td>
<td>$1,977.00</td>
<td>ONLY $1,977.00</td>
</tr>
<tr>
<td>UCR210D</td>
<td>UHF compact cam-mount receiver</td>
<td>$1,977.00</td>
<td>ONLY $1,977.00</td>
</tr>
<tr>
<td>UM200B</td>
<td>UHF plug-on wireless transmitter</td>
<td>$846.00</td>
<td>ONLY $846.00</td>
</tr>
<tr>
<td>UT200</td>
<td>UHF handheld wireless transmitter</td>
<td>$1,435.00</td>
<td>ONLY $1,435.00</td>
</tr>
</tbody>
</table>

**UCRUH100B**

The wireless Lectrosonics 100 series XLR plug-on transmitter and compact receiver for your camera is designed for corporate and event videography, but also works well in broadcast applications. The UCR 100 receiver is highly sensitive and the matching transmitter provides a full 100 mW of output power. The result is exceptional operating range and freedom from drop-outs. Features: 256 selectable frequencies; dual-band compandor.

<table>
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</tr>
</thead>
<tbody>
<tr>
<td>UCRUH100B</td>
<td>plug-on wireless mic system</td>
<td>$1,570.00</td>
<td>ONLY $1,335.00</td>
</tr>
</tbody>
</table>
These new UHF wireless systems from Sennheiser bring you professional performance and handling you want at a package price broadcasters can afford. The Evolution 300 series is an economical mid-range system with modular parts for expandability (we also carry the higher end 500 series, and the entry level 100 series if you desire). The rack mount receiver has Sennheiser's proprietary noise-suppressing HDX compander technology for crystal clear sound that rivals wired microphones. It also uses dual receiver circuits for the best possible interference-free reception. Features: switchable UHF frequency technology; 8 frequency presets; long transmission range (30 mW RF power); peak-hold LED display; transmitter with battery level indicator; balanced XLR audio outputs on the receiver; rugged construction.

The EW345 system includes a handheld dynamic microphone and rack mount receiver. The EW312 system includes an omnidirectional lavalier microphone, bodypack transmitter and rack mount receiver. The affordable 100 Series offers 4 presets rather than 8 and lacks the battery status display. But each system offers the same 30 mW RF power.

The Evolution RF Wireless Mics

Be Ready
Sennheiser Evolution RF Wireless Mics

Sennheiser has a full range of DTV-ready wireless mic systems to fit any budget, with options such as plug-on transmitters which can provide phantom power. Give your BSW professional a call today!

www.sennheiserusa.com

SHURE
UC24/58
Shure UC UHF systems are frequency agile, which allows you to quickly and easily change frequencies to avoid interference. Choose from 99 selectable frequencies. The 1/2-rack space UC4 receiver features diversity technology for improved reception. Features: 50 mW transmitter; SM58 mic capsule; adjustable squelch control; 2-band adjustable EQ; use up to 16 systems simultaneously.

SC SERIES
Features: 8 user selectable frequencies (4 on travelling systems); single on/off switch in transmitter supported by mute in receiver; battery fuel gauge to show how much power is left; half-rack width; metal chassis; 5-segment RF and audio metering; unbalanced and balanced XLR, mic/line switchable outputs; handheld and lavalier transmitters with popular Shure microphone elements that are perfectly matched to the system electronics.

* Non-inventory item subject to return restrictions.
**SONY FREEDOM SERIES PACKAGES**

Sony Freedom series offers 800 MHz UHF transmission quality with 94 selectable frequencies in the range from 794 to 806 MHz. Frequency-synthesis tuning to protect against unwanted interference by allowing instant channel switching; space diversity reception for added protection against a weak signal and much more. We have two simple packages priced below, but you may also call us for other pieces in the series.

- **B8544ACMPK**: UHF bodypack wireless mic system
  - Mfr. List $1,800.00
  - ONLY $999.00
- **B88PKG**: UHF plug-on wireless mic system
  - Mfr. List $1,670.00
  - ONLY $1,275.00

**FREEDOM SERIES COMPONENTS**

Build your own wireless mic system. It offers 800 MHz UHF transmission quality with 94 selectable frequencies in the range from 794 to 806 MHz. Frequency-synthesis tuning to protect against unwanted interference by allowing instant channel switching; space diversity reception for added protection against a weak signal; comprehensive LCD displays and high-quality microphones. Choose from the professional vocal hand held microphone (WRT807A) or one of three lavalier mic elements (ECM models numbers) with plug-on or belt pack transmitter (WRT808A or WRT805A). Then combine with the dual-antenna single channel receiver (WRT802A) or for greater expandability, the 6-channel rack mount receiver (MB806A) which requires a UHF synthesized tuner module (WRU-806A) for each microphone (one module in price of MB806A).

- **WRT807A64**: UHF hand held wireless mic transmitter
  - Mfr. List $820.00
  - ONLY $650.00
- **WRT805A**: UHF bodypack wireless transmitter
  - Mfr. List $495.00
  - ONLY $395.00
- **WRT808A64**: UHF plug-on wireless transmitter
  - Mfr. List $830.00
  - ONLY $670.00
- **WRR802A**: receiver
  - Mfr. List $870.00
  - ONLY $674.00
- **ECM166BP**: cardioid lavalier microphone
  - Mfr. List $137.00
  - ONLY $110.00
- **ECM448BP**: omni-directional wireless mic
  - Mfr. List $175.00
  - ONLY $122.00
- **ECM077BP**: omni-directional wireless mic
  - Mfr. List $360.00
  - ONLY $285.00
- **MB806A**: 6-channel receiver chassis
  - Mfr. List $980.00
  - ONLY $790.00
- **WRU806A**: UHF synthesized tuner module
  - Mfr. List $520.00
  - ONLY $415.00
- **AM820A**: powered UHF antenna with adapter
  - Mfr. List $200.00
  - ONLY $181.00

**SHURE UP SERIES**

Designed for professional broadcasters, the UP4 portable UHF wireless receiver provides the perfect combination of crystal-clear audio and rugged dependability. Features: engineered to shut out RF interference and deliver a clear, steady signal; frequency agility – provides over 100 selectable UHF channels; Intermediate Frequency filtering – selects the desired signal; phase locked loop circuitry ensures steady signal; tone key circuitry; noise squelch circuitry, microprocessor-controlled predictive diversity; 10 hours operation on a single 9V battery; frequency range 692-862 MHz; operating temperature range 32-120°F. Features: 100 -foot range; tone key circuitry; noise squelch circuitry, microprocessor-controlled predictive diversity; agile - provides over 100 selectable UHF channels; interference and deliver a clear, steady signal; frequency dependability. Features: engineered to shut out RF radiation; combination of crystal-clear audio and rugged dependability.

**SHURE LX SERIES**

Features: 5-segment RF level meters for A and B antennas; easy accessible noise-sensing squelch adjustment; half-rack width, metal chassis; 3-segment transmitter battery fuel gauge to show how much power is left; unbalanced and balanced XLR, mic/line switchable outputs; transmitters engineered with Shure's renowned components and designed to correspond flawlessly with system electronics; audio muting. Choose from handheld or bodypack transmitter systems.

- **LX14/83**: wireless lavalier mic system
  - Mfr. List $748.00
  - ONLY $579.00
- **LX24/58**: handheld wireless mic system
  - Mfr. List $852.00
  - ONLY $649.00

**VEGA U2020H267**

Vega's trusted U2020 wireless system offers maximum frequency agility at an affordable price. Features: 100-channel UHF system with 380 available frequencies; 50 mW of transmitter output power with a range of 1000 feet; low battery and overload LED's; Electro-Voice N/D67 element on handheld transmitter.

**Remote Mixers**

**AEQ MP10/TLE02D**

The MP-10 is really a complete portable studio for remotes. Features: 5 inputs, each with switchable mic/line level and phantom power; balanced outputs for program, AUX and talkback; 3 headphone outputs; separate headset channel allows user to talk on-air as well as communicate with studio; headphone keypad; EQ boost to compensate for poor phone audio; front panel metering; AC power or rechargeable Ni-Cad batteries; balanced XLR I/O.

The TLE-02D combines a portable mixer, audio codec, digital telephone hybrid and a frequency extender in one very compact unit. Features: audio codec, with terminal adapter for high-quality connections on ISDN lines with low-coding delay; built-in digital hybrid with echo suppression and frequency extender for use on analog telephone lines; two microphone inputs plus a third mic/line input with separate level controls; two headphone outputs with independent level control and monitor signal selector; separate auxiliary output with level control and signal selection switch; front panel telephone keypad with pulse/tone dialing; backlit LCD display.

**ATI NANOAMP SERIES**

These compact mixers can be stacked or rack-mounted three across allowing for up to eleven mic/line inputs. MXS100: designed for portable or field use; 3 low-noise, balanced mic/line inputs with pan; mic/line balanced stereo outputs with switchable peak limiting; phantom power; low-cut filters; test tone oscillator; tape in/out; XLR I/O connections. Options: input expander XPS100. MX101: mono version of the MXS100, full-featured. MX100C/MX200C: 3 low-noise, balanced mic/line inputs; phantom power; a single balanced or unbalanced output; headphone output. MX101C adds switchable limiter. MX200/MX200C: 3 balanced mic/line inputs; phantom power; balanced line level stereo out; headphone output. MX200C adds switchable limiter. Input expanders feature independent level adjustments and selectable phantom power.

- **MXS100**: stereo mic/line mixer
  - Mfr. List $949.00
  - ONLY $879.00
- **MXS101**: mono mic/line mixer
  - Mfr. List $599.00
  - ONLY $555.00
- **MX100**: mono mic/line mixer
  - Mfr. List $429.00
  - ONLY $398.00
- **MX101C**: mono mic/line mixer with switchable limiter
  - Mfr. List $479.00
  - ONLY $444.00
- **MX200**: stereo mic/line mixer
  - Mfr. List $769.00
  - ONLY $760.00
- **MX200C**: stereo mic/line mixer with switchable limiter
  - Mfr. List $789.00
  - ONLY $780.00
- **XP10**: mono 4-input mic/line expander
  - Mfr. List $319.00
  - ONLY $316.00
JK AUDIO

RETMEXMIXC+/RETMEXMIXSPORT

RemoteMix C+ is a combination audio mixer, headphone amplifier and telephone hybrid in one. It's perfect for remote broadcasts, sport events and field reporting from any location. Features: works with conventional phone lines; two XLR microphone inputs (one switchable mic/line); two 1/4" headphone jacks; RCA line in and out; XLR balanced mix output; runs 36 hours on two 9-volt batteries or AC adapter (included); DTMF keypad; auxiliary handset input for use as a standard telephone.

The more advanced RemoteMixSport offers 3 XLR microphone inputs (one switchable to line level); 3 headphone jacks; 1/4" headphone cue input; XLR clean mix or phone mix output; speaker and talkback microphone and a VU meter. Works with conventional phone lines as well as PBX or ISDN phones. And it now connects directly to cellular phones.

- REMOTEMIXC+ telephone hybrid/mixer
  - Mfr. List $595.00
  - ONLY $525.00

- REMOTEMIXSPORT telephone hybrid/mixer
  - Mfr. List $995.00
  - ONLY $878.00

JK AUDIO

DAPTOR ONE

Daptor One converts the 2.5 mm headset jack on your wireless cellular phone to a modular phone line jack. This modular RJ-11 jack connects directly to any JK Audio RemoteMix series mixer. Daptor One contains a mini-hybrid circuit that converts the earpiece and microphone signals into a balanced RJ11 phone line signal. The mic signals from the RemoteMix are sent into the wireless phone, while the earpiece signals from the wireless phone are sent into the RemoteMix headphones.

- DAPTOR1 wireless phone headphone jack
  - Mfr. List $119.00
  - ONLY $106.00

SOUND DEVICES

MIXPRE/MP2

Designed for high-definition field production, Sound Devices MixPre is a studio-quality, two-channel stereo mic preamp combining rugged construction and compact size. Features: 20 Hz to 50kHz bandwidth; greater than 110 dB dynamic range; up to 66 dB of gain per channel; conductive plastic potentiometers; phantom power; input assignment (pan) switches; built-in slate mic; 1 kHz tone oscillator; battery or DC power; dual-mono or stereo-linked limiters with adjustable thresholds; tape return enabling monitoring of external sources; aluminum chassis.

MP-2 is Sound Devices' alternate stereo mic preamp. It doesn't have the input assignment switches, built-in slate microphone or tone oscillator but instead offers a high-precision gain adjustment and an M/S stereo matrix (assignable to headphones or program output).

- MIXPRE 2-channel mixable mic preamplifier
  - Mfr. List $855.00
  - CALL FOR PRICE

- MP2 2-channel microphone preamplifier
  - Mfr. List $855.00
  - CALL FOR PRICE

- CS1 carry bag for MixPre and MP-2
  - Mfr. List $146.00
  - ONLY $105.00

Remote Mixers

NORTECH

MAX-Z

MAX-Z is a remote broadcast console providing flexibility and excellent audio quality. Features: 4 XLR mic/line inputs; front panel level and rear panel gain controls; cue buttons on channels 1 and 4; monitor input (mini jack) feeds into the cue channel; phone line out; direct audio out; 4 headphone jacks; built-in rechargeable batteries or AC power; VU meter; telephone keypad; carrying case.

- MAX-Z 4-channel remote mixer
  - Mfr. List $1,286.00
  - ONLY $1,126.00

Remote Equipment

CALL FOR PRICE

800  426  8434  www.bswusa.com
JK Audio makes hands-to-broadcast simple and easy with an exceptionally wide range of high-quality interface solutions.

Our RemoteMix series provides a variety of options for mixing audio and transmitting it seamlessly via standard or digital phone lines.

Our innkeeper 1 Digital Hybrid is available in both rack and desk versions, and provides the ultimate in affordable performance.

Our Daptor One is the latest addition to our collection of "Little Black Boxes" that solve just about any interface problem you can think of. The Daptor One, for instance, lets you quickly interface any of our RemoteMix Series mixers with the 2.5mm headphone jack on your cell phone to provide the ultimate in inexpensive wireless freedom.

A World of Solutions from JK Audio

Whatever your audio interface needs, JK Audio has a solution. Contact your BSW Sales professional to learn more about how JK Audio's product line can help you.

make contact with the RemoteMix Sport

wireless freedom with the Daptor One

communicate clearer with the innkeeper 1

JK Audio

see us on the web: www.jkaudio.com
Remote Mixers

SHURE

FP SERIES

Shure products are the elder statesmen in portable broadcast mixers and mic preamps. For years, engineers have relied on them for excellent audio quality and easy set-up and operation. From the simple FP22 headphone amplifier to the FP42 portable stereo mixer, BSW can get you the right equipment for your needs and on-site program recording.

The FP22 stereo +1 headphone amplifier provides professional quality stereo headphone monitoring and is ideal for field production and trouble-shooting applications.

The FP42 mixer offers full stereo capability and 4 XLR mic inputs along with many important features such as pull-pot cueing on all input channels and low-cut filters. It's perfect for midtown video editing.

FP33 is a high-end, 3-input, 2-output stereo mixer. Features: high-quality, sealed input potentiometers; a dynamic range of over 100dB; 48V and 12V phantom power plus 12-volt A-B (T) power for condenser mics; LED indicators of input levels, output peaks, limiter action and low battery; pop-up pan pots; mic bus to connect additional FP33s.

FP22 portable headphone amplifier Mfr. List $433.50
FP42 portable 4-input stereo mixer Mfr. List $1,264.80
FP33A UHF plug-on wireless transmitter Mfr. List $1,310.00

ROLLS

PROMIX PLUS

The PROMIX PLUS (MX54S) mixes three microphones into one transformer balanced XLR output. It has three XLR inputs, each with individually switchable phantom power, low cut switches and level control. A 1/4" aux/headphone output has been provided along with a clip indicator, power indicator and power switch, and the unit is powered by two 9-Volt alkaline batteries.

MX54S 3-channel microphone mixer Mfr. List $150.00
ONLY $97.00

SHURE

M367

The M367 is a very rugged and quiet compact mixer in the tradition of the famous Shure M267. Features: 6 balanced mic/line inputs; phantom power; input peak LEDs; balanced, 2-position mix bus; switchable output peak/limiter with adjustable threshold and limiter LED; illuminated battery/AC/VU meter and program monitor input selector; all-metal chassis; detachable power cord; easy-access side battery compartment; headphone monitor circuit.

M367 6-channel mic/line mixer Mfr. List $810.00
ONLY $609.00

STUDIOMASTER

42DCXLR

This battery powered stereo output mixer is ideal for any type of remote application such as audio for video, ENG work, remote broadcasts, etc. Features: 4 channels (each input can be XLR mic or RCA line); inputs include a pan control; 1/4" left and right output jacks; mic/line level output switch; mono/stereo mode switch; rugged steel construction; battery test light; Jack for DC 9-volt input (adapter not included).

42DCXLR 4-channel mic/line mixer Mfr. List $132.00
ONLY $106.00

AEQ

MPAC-02

The AEQ MPAC-02 is a multi-format, dual channel, portable audio codec for ISDN remotes. Offering two-way communications in two independent audio channels on a single ISDN line, the MPAC-02 enables the setting-up of simultaneous program and coordination circuits. Features: digital hybrid with frequency extender; operative on analog telephone lines; a digital audio codec G.726(16 kbps); external modem connection G.711, G.722 (statistical and H.221/242); LD-Extend and ISO/MPEG Layer II; up to 15 kHz stereo audio; up to 11.5 kHz bi-directional audio; 3 microphone and 1 mic/line inputs with XLR/jack combo connectors; 3 headphone outputs. *MPAC02 portable ISDN audio codec Mfr. List $3,490.00
ONLY $3,272.00

COMREX

HOTLINE

Finally, an affordable digital transmission device capable of providing up to 10 kHz two-way audio on a standard telephone line. The Comrex HotLine codec is tough as nails and proven reliable at thousands of remotes. Features: program and cue-back on one phone line; auto or manual dialing and answering; mic/line XLR and mini-jack tape inputs; line level XLR and 1/4" headphone outputs.

HOTLINE portable POTS audio codec Mfr. List $2,800.00
ONLY $2,620.00

COMREX

NEXUS

Capable of 15 kHz as well as 7.5 kHz low delay, two-way mono audio over ISDN or SW56, the portable Nexus is ideal for remote broadcasts. Features: mic/line input; output that provides a variable mix of local program audio and codec return audio; separate data port for SW56 DSU/CSU's; easy set up with keypad, LCD display and memory dial.

NEXUS portable ISDN audio codec Mfr. List $2,300.00
ONLY $2,153.00

NEXUSRACK rack mountable ISDN audio codec Mfr. List $3,000.00
ONLY $2,620.00

COMREX

PRIMA LT

The bi-directional stereo Prima LT ISDN codec comes with Musicam-enhanced MPEG Layer II, MPEG Layer III and G.722 algorithms for maximum compatibility. It accepts one digital interface module for direct connection to ISDN, V.35, X.21 or RS422. Features: 24-bit A/D and D/A converters; dynamic range better than 92 dB, ultra-low distortion at less than 0.01%; data rates to 384 kbps; built-in terminal adaptor for U:S.; optional AES/EBU and S/PDIF I/O.

PRIMALT03 rack mountable ISDN audio codec Mfr. List $3,495.00
ONLY $3,329.00
## AUDIO CODEC

### Comrex Codec Values

<table>
<thead>
<tr>
<th>COMREX</th>
<th>VECTOR</th>
</tr>
</thead>
</table>
| ** Matrix **
| If you've got the Matrix, you've got options, because this 15 kHz POTS codec allows for easy conversion to ISDN operation using Layer III or G.722 and/or GSM wireless phones operation. These conversions simply require optional slide-in modules. Besides real-time transmission, the Matrix includes a store and forward feature so that 15 kHz audio cuts can be sent in "non-real" time, which can be useful when a circuit won't sustain adequate data rates for modern transmission. Features: 15 kHz full duplex audio on a single, standard telephone line; 2 microphone inputs (one is mic/line switchable); headphone output; line level output on XLR providing direct connection to mics and headphones or mixer; -10 dBu tape input allows connection to a Minidisc or DAT player; compatible with Vector and HotLine codecs. Options include: ISDN module; GSM wireless phone module. |
| ** Envoy **
| The Envoy codec delivers 15 kHz audio at 128 kbps or 7.5 kHz at 64 kbps audio for great sounding, full duplex ISDN broadcasts. It uses the G.722 algorithm for compatibility with other brand G.722 ISDN codecs and has a 6 millisecond delay for seamless two-way communication. The mixing capabilities consist of three mic level inputs with the third switchable to line level plus a forth input for the main program or just for cueing, as well as three headphone outputs and a forth output for PA feeds or recorders. |

### Comrex Codec Values

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| ** Vector **
| The latest POTS codec in the Comrex line, the Vector delivers nearly 15 kHz audio on a plain telephone line at a realistic data rate of 24 kbps or higher. Plus it offers complete mixing capabilities! Features: 4 XLR mic level inputs (3rd and 4th are switchable to line level); 3 headphone outputs on 1/4" phone jacks; an extra line level output on XLR that could feed a PA quick dial memory; compatible with Comrex HotLine POTS codec. Order today. |

### Comrex Codec Values

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<thead>
<tr>
<th>Audio Codec</th>
<th>Comrex Codec Values</th>
</tr>
</thead>
</table>
| ** Fieldfone II/Studiofone **
| FieldFone II and StudioFone are an integrated system for sending broadcast quality audio over a single analog phone line. Features: bi-directional broadcast quality audio (10.2 kHz at 33.6 kbps); operates at transmission bit rates as low as 12 kbps; easy to operate - just speed dial and you're on the air; real-time line quality monitor; automatic fall-back to correct for changes in line quality; four bi-directional relay contact closures to actuate remote equipment; Layer III-based algorithm optimized for great sounding remote at low bit rates; FieldFone with 2 XLR mic and 1 XLR mic/line input plus 2 independent headphone monitor jacks. Studiofone with front rack mount panel, IFB Talk-Back and monitor speaker. |
| ** Roadrunner **
| Roadrunner is an economical, compact codec that provides full frequency (up to 20 kHz) bi-directional mono audio over an ISDN line. It comes complete with mic and line level mixing inputs so you can mix "on the fly" and it offers high-quality Musicam electronics. Features: 3-channel mixer; 2 headphone jacks; fully bi-directional with a built-in terminal adapter for U.S.; automatically adjusts to incoming algorithms and bit rates; provides the highest quality digital audio at bits of 56, 64, 112 and 128 kbps; compatible with G.722, CCS MUSICAM, Layer II and Layer III; balanced and unbalanced line level outputs for received audio; remote control. Order today. |
**Audio Codec**

**TELOS 9202**
Zephyr is the ideal solution for remote broadcasts, ad hoc networks, voice covers, commercial distribution, backup to microwave and satellite links, and many other applications. On just one ISDN circuit, Zephyr can convey 20 kHz duplex stereo audio, and it can transmit 15 kHz mono audio using only one of an ISDN line's two channels. MPEG audio Layers III and II, as well as G.722, are provided for the highest audio quality and compatibility with nearly every installed codec. Features: a built-in ISDN terminal adapter with NT-1 and 9600 baud RS-232 bi-directional data for communications and control; available V.35 connection allows Zephyr to connect with Switched 56 and other data links; full metering; a headphone jack; mic/line inputs; input protection limiting.

Only BSW Extends the Warranty on Your Telos Codecs by One Full Year!

**TELOS 9302**
With the ZephyrExpress sending live audio from the field via ISDN has never been easier. Telos lightens your remote broadcast burden by combining a full-featured codec, an ISDN terminal adapter, and an audio mixing/monitoring system, all in a road-rugged chassis. With ZephyrExpress, there is no need to lug additional electronics. It includes the complete features of the standard Zephyr. You get MPEG Audio Layers III and II, as well as G.722 for the compatibility and performance you require. G.711 allows you to place a voice-grade call to any standard telephone, saving you the expense of an additional circuit at the remote site. The three-input mixer has two mono mic level and a two-channel line level input. Two independent headphone outputs have selectable source controls for monitoring local and/or return audio. Optional hard and soft carrying cases available.

**TIELINE EXPRESS/COMMANDER**
For broadcast audio at low connect rates with low audio coding delay and a stable connection, you'll prefer the TieLine Express POTS codec. For additional flexibility, the TieLine Commander adds an ISDN input for audio transmissions over ISDN achieving 15 kHz audio with just one "B" channel. Features: bi-directional 15 kHz mono audio over standard telephone lines; super-fast digital signal processing power; gives you imperceptible delay (100 ms delay); 3 XLR mic level Inputs; 2 headphone jacks; 20-bit A/D-D/A converters; programmable hot keys; stream text, control data and control remotely via any PC over your broadcast link (means you can remote control your automation system from the remote broadcast site); type messages back and forth on your PC while you're broadcasting; user selectable data channel bandwidth up to 9.6 kbps with simultaneous 7 kHz audio transmission under certain conditions; ability to upgrade algorithms, remote control and DSP software over the Internet; remote control the audio input levels of the remote codec from your studio to ensure correct audio levels; one touch setups and the ability to lock the controls to avoid tampering; software for remote control included. Call our knowledgeable sales staff today.

**Cellular Interfaces**

**CONEX CELLJACK II/CELLJACK/FLIPJACK**
CellJack, CellJack II and FlipJack turn your cell phone into a remote broadcast center. CellJack II works with Motorola"-brand bag-type cell phones and operates off the power from the cell phone. It features two balanced XLR mic/line inputs; separate auxiliary input; front panel LED level indicator; two headphone jacks - each with its own level control; tuner input for off-air monitoring; send and receive level controls and interconnect cable. CellJack is a scaled-down two-input version. FlipJack can be used with Motorola StarTac cell phones or other phones with a 2.5mm hands-free adaptor. It features two XLR inputs (one switchable mic/line), headphone output with level control and a separate external tuner/aux input.

**Marti CELLCAST**
Marti's Cellcast cellular remote broadcasting system eliminates line-of-site requirements, phone line access and antenna problems while reporting from the source. Portable and cost-effective, the Cellcast combines a frequency extender and mixer with all the convenience of cellular technology. Features: cellular or land line transmission; 4-channel mixer (mic or line selectable); runs off AC, internal battery or 12-volt cigarette lighter adaptor; 3-watt cellular transmitter; broadcast timer.

Note: The cell phone transmitter is analog. Check the cellular service in your area to verify the continued availability of analog service.

*Non-inventory item subject to return restrictions.*
**HD25 SP**
Rugged, high performance headphone with up to 16 dB of passive noise attenuation.

Features:
- Very lightweight
- Tough, detachable steel cable
- Fully modular design with replaceable parts for long life

**HMD 25**
Exceptional sound quality and versatility in a lightweight boomset.

Features:
- Supercardioid dynamic microphone for left or right side placement
- Thickly-padded split headband for added comfort and non-fatiguing wear
- Supraural, closed earcups for excellent isolation from ambient noise

For announcing sports or news, Sennheiser is the first choice. The industry standard HMD 25 boomset gives you the isolation you need to hear yourself, and the clarity offered by its mic capsule is unparalleled. The HD25 SP is a super lightweight, closed dynamic headphone which offers full frequency response for extra precision and excellent isolation.

**COMREX**
**CTA SERIES**
This Comrex Cue System sends program and instructions from its transmitter to pocket receivers. The CTA Cue Transmitter is a 1-watt rack mount unit that can be installed in a van, studio, press box, etc. It accepts program and cue audio sources, combining them so that cues automatically override the program. Program remains audible at a lower level. The LPQRA Receiver has a 6 kHz audio response for accurate program monitoring. Ceramic filters allow for interference-free operation. The LPQRA has high-level output for clear understanding in noisy surroundings. A sturdy leather belt pouch and headphone are included.

**LISTEN**
**LISTENPKG**
This Listen Technologies package makes it easy for the broadcast booth to communicate with on-field/court reporters. The system is made up of an interruptible feedback (IFB) transmitter and a receiver (plus necessary accessories such as ear piece and antennas). The wireless transmitter is channel selectable to 57 channels in the 216 MHz frequency band and works equally well indoors or outdoors. The portable receiver has a visual display of channel selection, battery level and RF signal strength. Package consists of the following pieces: LT800-216, LR400-216, LA117, LA164, LA102.

**SHURE**
**SM2**
Shure's popular SM2 headset offers great sound in a comfortable, two-ear configuration. It has been proven reliable with consistently high quality sound reproduction. Headphone frequency response is 100 Hz to 8 kHz; mic response is 50 Hz to 15 kHz. Cable detaches from headset and ships unterminated at the other end.
**Headsets**

**Top Seller**

**BEYERDYNAMIC DT290**

A low profile, lightweight design makes the DT290 very comfortable for long-term operation. It also offers excellent isolation from ambient noise. The incredible price shown is for the DT290 with a high-quality dynamic mic element. It also includes a cable terminating in a 1/4" connector for headphones and XLR connector for mic.

DT290 headset with connectors
Mfr. List $339.00
ONLY $249.00

**BEYERDYNAMIC DT190**

Beyerdynamic is a world leader in broadcast and communications headsets. Their full-featured DT190 combines their best sounding hypercardioid mic element and studio quality headphone elements in the classic Beyerdynamic headset design. It includes a cable terminating in a 1/4" connector for headphones and an XLR connector for the microphone.

DT190 headset with connectors
Mfr. List $459.00
ONLY $339.00

**MARTI SR10**

The frequency agility and superior selectivity of the Marti SR-10 help you maneuver through the high interference levels that plague today's RPU bands. Features: front panel channel selection (12.5 kHz steps) with 6 programmable priority channels that can be scanned or selected (option available for remote channel selection and display); front panel speaker and headphone jack with monitor level control; automatic noise reduction circuit; optional subaudible tone decoding. Call for frequency agile models now available for the VHF band.

*SR10 RPU receiver
Mfr. List $2,500.00
ONLY $2,353.00

**KATHREIN-SCALA CA7-460**

The Scala CA7-460 seven-element yagi is designed for the very highest reliability even under severe environmental conditions. Its broadband design makes it particularly suitable for systems requiring frequency agility within a specified band. This model covers the 450-470 MHz bands. The impedance is 50 ohms, gain is 10 dB (over dipole) and input power rating is 250 watts.

*CA7-460 yagi antenna
Mfr. List $240.00
ONLY $215.00

**WESTCO SUPERLITE FOLDING TRUCK**

Haul all your bulky loads without having to lug around a big kart! This lightweight folding truck can be transformed from a compact 29.5"x19"x2" to an extended 42"x19"x19" by extending the wheels back and nose plate. Features: lightweight aluminum (only 9.6 lbs.); elastic straps; big 7" rubber tread wheels; capacity 175 lbs.

RR-4
Mfr. List $130.00
ONLY $113.00

**Hand Trucks**

**MULTI-CART RR-10/RR-4**

The Multi-Cart combines the space-saving advantages of a lightweight, foldable, luggage cart with the big load capacity of an industrial size four-wheel dolly. Standing up it's a heavy duty handtruck with long forks. Lying down, it's a four-wheel cart that expands in length. RR-10 can hold up to 500 pounds of equipment and extends in length from 34" to 52" long. The smaller RR-4 can hold up to 350 pounds and extend in length from 26" to 39" in length.

RR-10
500 lb. max. handtruck/dolly
Mfr. List $1,650.00
ONLY $1,613.00

RR-4
350 lb. max. handtruck/dolly
Mfr. List $1,199.95
ONLY $99.00

**Remote Equipment**

**WILLBURT HURRYUP**

Here's a simple, inexpensive, and effective portable antenna mast for your remotes. The Marti Hurry-Up mast is designed for fast deployment of lightweight antennas. It consists of 6 graduated aluminum tubes which nest one inside another. The mast is extended by pushing up the sections and fixing them into position using quick lock release collars. It can be fully extended to 25' in one minute. Hurry-Up's universal vehicle mounting stand allows you to take it on remotes using whatever vehicle is available. It weighs only 20 lbs. with a nested height of 6 ft.

*HURRYUP telescope mast
Mfr. List $1,650.00
ONLY $1,613.00

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*CA7-460 yagi antenna
Mfr. List $240.00
ONLY $215.00

**MARTI YC450**

Marti's YC-series antennas offer five or six elements depending on the frequency selected and offer a gain of 10 dB. Please specify frequency when ordering (from 152.08 to 455.99 MHz to cover any RPU application).

*YC450 yagi antenna
Mfr. List $225.00
ONLY $212.00
## Remote Equipment

### Equipment Cases

#### Otter Box

**WATER PROOF UTILITY BOXES**

The Otter Box was built to keep items dry. The closed cell neoprene O-ring creates a positive seal which does not allow water in. All models have been pressure and leak tested to depths beyond 100 feet and can withstand the weight of an automobile. Because of its toughness in design and materials, each Otter Box has a lifetime guarantee. All Otter Boxes come with a black nylon lanyard for carrying. Soft foam lines all boxes except 1000 Series box. Color choice is black with clear lid or bright yellow with clear lid. Dimensions are as follows:

- **1000** - (4.37"x2.87"x1") ID 3.93"x2.62"x1.37" OD good for miniature mics, flash ROM cards, etc.
- **2000** - (6"x3.37"x1") ID 4.37"x2.87"x1.37" OD can fit smallest MD and MP3 recorders.
- **2500** - (6"x3.37"x3") ID 6.5"x3.87"x3.37" OD used for portable MD and DAT recorders, cell phones and cell interfaces.
- **3000** - (7.87"x3.81"x1.5") ID 8.37"x4.37"x1.87" OD for small shotgun capsules, multimeters or flat battery packs.
- **3500** - (7.87"x3.81"x3.62") ID 8.37"x4.37"x4" OD can hold small mixers, handheld test equipment & microphones.

#### ACE

**KEB SERIES**

KEB bags are perfect for toting remote gear into the field. These padded nylon bags can hold mixers, recorders, mics, codecs and much more. Each bag has a main compartment, a separate accessory compartment, carrying handle and adjustable shoulder strap. Main compartment sizes are shown below.

<table>
<thead>
<tr>
<th>Code</th>
<th>Size</th>
<th>Mfr. List</th>
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<td>$54.95</td>
<td>$45.00</td>
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</tbody>
</table>

#### Pelican

**1500/1600 SERIES**

Made of lightweight space-age structural resin with neoprene O-ring seal and exclusive purge valve. Pelican hard cases are water proof (to 30 feet) and airtight for the ultimate in protection. Dimensions:

- **1500** - (17"x11.5"x6.25") ID 18.31"x14.12"x7"
- **1520** - (17.93"x12.75"x6.25") ID 19.12"x15.68"x7.62"
- **1600** - (21.62"x16.87"x7.87") ID 24.25"x19.43"x8.68"
- **1650** - (28.75"x17.87"x9.75") ID 32.68"x20.18"x11.18"

<table>
<thead>
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#### Ace KEB Series

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<tr>
<td>KEB22</td>
<td>9.5&quot;x12.5&quot;x3&quot;</td>
<td>$25.95</td>
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#### Ace Pelican Series

**1527**

The Pelican Convertible Travel Bag is designed to fit inside a 1520 Hard Case. The bag is constructed of heavy-duty waterproof padded nylon with multiple front and side gadget pockets. Size 15.5" x 12.5" x 6.25".

<table>
<thead>
<tr>
<th>Code</th>
<th>Size</th>
<th>Mfr. List</th>
<th>ONLY</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1527</td>
<td>convertible travel bag</td>
<td>$113.56</td>
<td>$102.00</td>
<td></td>
</tr>
</tbody>
</table>

#### Ace Ace Series

**SKB ATA SERIES**

These tough 19" rack cases are made for punishing road and air travel with latched and gasketed front and rear covers to protect equipment from moisture and dirt. All cases are 14" deep and are available in sizes from 2 to 12 rack spaces. The ultra tough polyethylene shell is half the weight of old-fashioned wood cases, yet offers maximum protection. ATA approved.

<table>
<thead>
<tr>
<th>Code</th>
<th>Size</th>
<th>Mfr. List</th>
<th>ONLY</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><em>SKB19-2U</em></td>
<td>2-space portable rack case</td>
<td>$185.95</td>
<td>$112.00</td>
<td></td>
</tr>
<tr>
<td><em>SKB19-4U</em></td>
<td>4-space portable rack case</td>
<td>$209.95</td>
<td>$137.00</td>
<td></td>
</tr>
<tr>
<td><em>SKB19-6U</em></td>
<td>6-space portable rack case</td>
<td>$239.95</td>
<td>$144.00</td>
<td></td>
</tr>
<tr>
<td><em>SKB19-8U</em></td>
<td>8-space portable rack case</td>
<td>$309.95</td>
<td>$186.00</td>
<td></td>
</tr>
<tr>
<td><em>SKB19-12U</em></td>
<td>12-space portable rack case</td>
<td>$399.95</td>
<td>$240.00</td>
<td></td>
</tr>
</tbody>
</table>

#### Ace Switch Series

**ROKSAK RC154**

This lightweight 4-space rack bag has a tough inner shell and a durable nylon cover with handles for carrying equipment safely into the field. Front flap zips up to protect the face of your equipment.

<table>
<thead>
<tr>
<th>Code</th>
<th>Size</th>
<th>Mfr. List</th>
<th>ONLY</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>RC154</td>
<td>4-space rack bag</td>
<td>$69.95</td>
<td>$53.00</td>
<td></td>
</tr>
</tbody>
</table>

#### Ace SKB Rack Series

**SKB RACK SERIES**

Roto-Racks are the newest line of racks from SKB that combine toughness with style and value. These rotationally molded racks have front rails, a removable front lid and rear access door. A durable exterior with large molded-in handles make them excellent for protecting all of your audio equipment. As always with SKB racks, they're designed to be stackable. Available in 4-, 6- and 8-rack sizes.

<table>
<thead>
<tr>
<th>Code</th>
<th>Size</th>
<th>Mfr. List</th>
<th>ONLY</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><em>SKBRACK4</em></td>
<td>4-space, portable equipment rack</td>
<td>$119.00</td>
<td>$80.00</td>
<td></td>
</tr>
<tr>
<td><em>SKBRACK6</em></td>
<td>6-space equipment rack</td>
<td>$139.95</td>
<td>$93.00</td>
<td></td>
</tr>
<tr>
<td><em>SKBRACK8</em></td>
<td>8-space equipment rack</td>
<td>$159.95</td>
<td>$105.00</td>
<td></td>
</tr>
</tbody>
</table>

* Non-inventory item subject to return restrictions.
BELAR

FM/AM SERIES

For more than 30 years, Belar has been making precision modulation monitoring products and established a reputation that makes them synonymous with reliability. Belar makes a model and options to fit every application. Call BSW with your needs and speak to our knowledgeable sales professionals.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>FMMA1</td>
<td>FM modulation monitor</td>
<td>$1,790.00</td>
</tr>
<tr>
<td>FMMA2</td>
<td>FM stereo modulation monitor</td>
<td>$1,930.00</td>
</tr>
<tr>
<td>FMMA4</td>
<td>FM digital frequency monitor</td>
<td>$1,497.00</td>
</tr>
<tr>
<td>SCM2</td>
<td>SCA modulation monitor</td>
<td>$1,930.00</td>
</tr>
<tr>
<td>RFA4</td>
<td>frequency agile FM RF amplifier</td>
<td>$1,200.00</td>
</tr>
<tr>
<td>RFA1A</td>
<td>fixed frequency FM RF amplifier</td>
<td>$900.00</td>
</tr>
<tr>
<td>AMM2C</td>
<td>AM modulation monitor</td>
<td>$1,497.00</td>
</tr>
<tr>
<td>AMM3</td>
<td>AM modulation monitor</td>
<td>$1,685.00</td>
</tr>
<tr>
<td>AMM4</td>
<td>AM digital freq monitor</td>
<td>$1,390.00</td>
</tr>
<tr>
<td>RFA2</td>
<td>AM RF amplifier (specify frequency)</td>
<td>$744.00</td>
</tr>
</tbody>
</table>

*Non-Inventory Item subject to return restrictions.*

BELAR

WIZARD SERIES

The FMMA1 Wizard is a microprocessor-controlled, digital modulation monitor/analyzer, available in FM and AM models that precisely measure peak modulation, peaks per minute, average peak modulation, modulation density and more. The Wizard Software (included with the Wizard) and your IBM-compatible computer enable real-time graphing, logging and remote operation. The FMSA1 combines with the FMMA1 baseband unit to offer DSP-based stereo monitoring.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>FMMA1</td>
<td>FM modulation monitor</td>
<td>$3,300.00</td>
</tr>
<tr>
<td>FMSA1</td>
<td>stereo monitor for use with Belar FMMA1</td>
<td>$3,671.00</td>
</tr>
<tr>
<td>AMMA1</td>
<td>AM modulation monitor</td>
<td>$3,300.00</td>
</tr>
</tbody>
</table>

MODULATION SCIENCES

MODMINDER FMMM2

Increase modulation with less processing, and still stay within FCC limits. ModMinder gives you more accurate measurement of modulation in accordance with the most recent FCC standard. FM ModMinder registers only those longer events that the FCC really cares about. The end result is you may be able to boost your modulation up to 3 dB depending on the type of processing you use. Digital technology improves measurement accuracy by 500% and user-selectable response time allows less processing without sacrificing loudness. Remote software is included for dialup access. This ModMinder FMMM2 includes an internal demodulator.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>FMMM2</td>
<td>FM modulation monitor</td>
<td>$2,793.00</td>
</tr>
</tbody>
</table>

*Non-Inventory Item subject to return restrictions.*

MODULATION SCIENCES

MSI-320

The Modulation Sciences MSI-320 precision video demodulator provides advanced, accurate measurement and monitoring of visual and aural signals for TV and cable at an affordable price. Features: Nyquist SAW filter; synchronous video detector; continuous all-channel tuning; a high-quality aural composite baseband output; non-intercarrier or quasi-parallel aural, and status alarms for sync, audio and RF; <1.2% differential phase and <1.2% differential gain; easy-to-read and easy-to-set-up front panel display and menus.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS1320</td>
<td>video demodulator</td>
<td>$5,318.00</td>
</tr>
</tbody>
</table>

MODULATION SCIENCES

QEI

691/01

The 691/01 is a highly technical, precision instrument employing a combination of test techniques in a versatile yet very compact package. It was designed to be a complete FM test package with facilities for all proof-of-performance measurements and a wide range of trouble-shooting tests. Operator convenience and simplicity of use were primary considerations in the design of the 691/01. 18 tests can be performed in addition to measuring FM and SCA modulation when used with an oscilloscope.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>*691/01</td>
<td>FM modulation monitor/test set</td>
<td>$6,412.00</td>
</tr>
</tbody>
</table>
Dependable Modulation Monitors for AM & FM

520 AM Mod-Monitor
- Built-in, tunable preselector for accurate off-air measurements
- Easy-to-read, peak-hold modulation display
- Alarm and RS-232 data outputs
- Companion active antenna option

530 FM Mod-Monitor
- Off-air operation with 8 station presets
- High-resolution displays for deviation, audio, pilot, RF signal and multipath
- Accurate and affordable
- Check out our 540 Subcarrier Monitor for SCA, RDS and data

Download full spec sheets at www.inovon.com

RDS/RBDS/Tuners

INOVONICS
701
The 701-00 is a unique and inexpensive encoder that, within minutes, will have you broadcasting the radio-data IDs, service flags and text messages which the latest consumer receivers are already seeking. Features: stand-alone operation does not require a dedicated host computer; messages held in non-volatile memory (the encoder may be conveniently programmable, then taken to the final installation site); locks to stereo pilot from bridged composite/MPX sample (no special 19 kHz sync port is required); simple menu-driven programming software included.

70100 RDS encoder Mfr. List $390.00 ONLY $349.00

INOVONICS
710
Get RDS on the air quickly with this versatile dual-mode encoder. The 710 is a fully dynamic encoder that can be used in tandem with a PC to give you on-line control, or it can operate in static mode with up to 15 pre-programmed frame sets that can be selected locally or remotely. Features: unity-gain, loop-through operation with fail safe bypass; phase-locks to stereo pilot or defaults to internal crystal timebase; front-panel or remote message frames selection (automatic sequences through selected message frames); free initial factory programming of the static message frames (menu-driven EPROM programming software comes with the 710); no additional hardware required for PC controlled dynamic operation (all necessary software is supplied).

71000 RDS/RBDS encoder Mfr. List $1,050.00 ONLY $940.00

INOVONICS
711
The 711 is a low cost, dynamic encoder that's simple to install and easy to use. Featuring the Universal Encoder Communications Protocol (UECP) standard, the 711 has the ability to work with popular hard-disk automation systems and offers a standardized interface that supports song titles, contests, etc. Loop-through or sidechain operation allows the 711 to operate with any exciter/stereo-generator combination.

71100 RDS encoder Mfr. List $1,200.00 ONLY $1,074.00

*Non-inventory item subject to return restrictions.
RBDS for the USA

RBDS radios are being supplied as standard equipment in a growing number of new US automobiles. Don't let your station be skipped-over for lack of an RBDS presence. Either Inovonics encoder is easily installed and programmed to get your 'digital signature' on the air in a matter of minutes.

**Model 701**
A low-cost encoder for name, format and other basic IDs, plus static RadioText for a fixed station promo, phone number or simple advertising message.

**Model 711**
A full-featured encoder supporting all the common RBDS functions. In addition to basic IDs, the 711 includes the auto-tuning "TA" traffic flag and interfaces with station automation for song titles, contests and other dynamic RadioText applications.

Download full spec sheets at www.inovon.com
GORMAN-REDLICH

EAS1

Gorman-Redlich provides a cost-effective, easy-to-use EAS system. Features: 6 audio inputs; all audio inputs and outputs are transformer isolated from the encoder/decoder board; selectable manual or automatic modes; programmable automatic interruption of stereo program lines when preselected header code is received for insertion; digital audio storage; 5 programmable relays to supply contact closures for automation or other signal equipment; alert messages can be scrolled on a computer screen.

*EAS1  EAS encoder/decoder system  Mfr. List $1,750.00  ONLY $1,695.00
*CRW  weather receiver  Mfr. List $540.00  ONLY $529.00

MTS

3000D

MTS 3000D is a comprehensive EAS solution in a single 7" high rack mount box. Features: 3 frequency agile internal receivers for AM, FM and national weather service (specify combination when ordering); 5 EAS inputs (three receivers, one audio and one RS232/EAS); built-in digital audio recorder and player (15 kHz bandwidth and hours of storage time); internal speaker can repeat standard EAS messages in any spoken language; operates from front panel keyboard or PC keyboard; unlimited user-programmable event and location codes; 8 control inputs/8 status outputs; 4 user programmable relays; built-in multiple station operation.

3000D  EAS encoder/decoder system  Mfr. List $3,199.00  ONLY $3,084.00
EASE II  encoding software  Mfr. List $499.00  ONLY $481.00

TFT

EAS 911

The EAS911R4 encoder/decoder includes printer, digital recorder and four audio inputs, and is part of a modular system that can be configured to fit a wide variety of applications. Features: sequentially lighted keys guide operators through EAS tests or alerts with ease; all programming, tests and entry are performed on front panel buttons; Practice key allows off-line operator training; control from multiple locations (up to 16) with optional remote control status modules (EAS941A) via twisted pair wiring up to 5000 feet away. Call for more information on this TFT EAS solution.

EAS911R4  EAS encoder/decoder system with 4 audio inputs  Mfr. List $2,195.00  ONLY $2,049.00
EAS930A  multi-module receiver with hot standby  Mfr. List $1,470.00  ONLY $1,373.00
EAS940A  program/transmitter interrupt unit  Mfr. List $499.00  ONLY $463.00
EAS941A  remote control status module  Mfr. List $495.00  ONLY $463.00

MARTI

STL10/R10

For mono operations or for non-composite stereo applications, choose the STL10. Separate right and left units can be linked for stereo operation with greater interference rejection, superior noise specifications and lower channel crosstalk than most composite systems. Four optional sub-channels are available. Features: excellent square wave response; user selectable audio processing; low pass and band pass filtering for minimum overshoot and high selectivity; extensive front panel test functions and built-in automatic switching capability.

*STL10  STL transmitter  Mfr. List $1,850.00  ONLY $1,728.00
*R10  STL receiver for use with Marti STL10  Mfr. List $1,935.00  ONLY $1,728.00

STL15C/R15C

The Marti STL-15C transmitter and companion R-15C receiver form a high-quality, frequency synthesized, radio communications link. Depending upon the available channel bandwidth, the systems can transmit composite stereo with two subcarriers, or digital stereo audio when used with external modems. Features: unexcelled composite stereo separation, noise and distortion specs; high interference rejection receiver; 9.5 watts of power; new narrow channels provision for automatic switching.

STL15C  composite STL transmitter  Mfr. List $3,000.00  ONLY $2,824.00
R15C  composite STL receiver for use w/ Marti STL15C  Mfr. List $3,000.00  ONLY $2,824.00

MOSELEY

PCL6020 SERIES

Replace your tired old STL with a new rock-solid Moseley system. The popular PCL6020 employs a synthesized reference oscillator to eliminate fixed frequency crystals. Monaural or composite operation is available from a single system. By selecting appropriate jumpers, you can enable wideband composite stereo or 15 kHz monaural basebands. The PCL6020 system consists of a transmitter and receiver. The PCL6030 and PCL6060 are designed for hostile RF environments where adjacent channel rejection is required.

*PCL6020  STL system  Mfr. List $8,250.00  ONLY $7,765.00
*PCL6030SYS  high-rejection STL system  Mfr. List $9,250.00  ONLY $8,706.00
*PCL6060  high-rejection STL package  Mfr. List $9,950.00  ONLY $9,365.00

* Non-inventory item subject to return restrictions.
With its Open-Architecture, All Digital, Spectrally Efficient QAM design, it can deliver up to four non-compressed audio channels over a single narrow bandwidth 1.5 GHz STL channel. AES/EBU I/Os and built-in sample rate conversion provide seamless connection without compression or delay. Selectable digital audio sampling rates of 32, 44.1, or 48 kHz together with a choice of 16, 32, or 64 QAM allows the optimization of occupied bandwidth, robustness and connectivity to equipment in the all-digital air chain. With your finger on the trigger of 4 barrels of unrestrained audio, you win. Every time.

**MOSELEY**

**SL9003Q-4S**

Moseley’s Starlink SL9003Q is the transmission leader: an open architecture, all-digital, 4-channel aural STL without compromise. Using spectrally efficient QAM (quadrature amplitude modulation) technology, it conveys up to four linear uncompressed audio channels over a single narrow bandwidth 950 MHz STL channel. This uncompressed 16-bit linear audio is absolutely uncompromised and can be configured with up to two pairs of stereo audio (that’s like getting two radios for the price of one). AES/EBU I/O, combined with a built-in sample rate converter, provide seamless connection without delay. User selectable digital audio sampling rates of 32, 44.1 or 48 kHz together with a choice of 16, 32 or 64 QAM allow the optimization of occupied bandwidth, robustness and connectivity to equipment in the all-digital air chain. Other features include T1/E1 connectivity and full metering and diagnostics. Talk to our knowledgeable sales staff today.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Mfr. List</th>
<th>ONLY</th>
</tr>
</thead>
<tbody>
<tr>
<td>SL9003Q-4S</td>
<td>4-channel STL system</td>
<td>$16,250.00</td>
<td>$15,295.00</td>
</tr>
</tbody>
</table>

**MOSELEY**

**DSP6000 SERIES**

Your key to an STL system that can pass CD quality audio is the DSP6000. This digital encoder/decoder system is designed to be used with the PCL6020 (shown on previous page). Features: 90 dB SNR with only .01% distortion; operates in existing channel allocations from 100 to 500 kHz, coexisting with established analog radios; higher system gain (up to 25 dB over analog STLs); constant SNR unaffected by fades, no crosstalk, no degradation.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Mfr. List</th>
<th>ONLY</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSP6000E2</td>
<td>2 audio and 1 data channel encoder</td>
<td>$2,995.00</td>
<td>$2,819.00</td>
</tr>
<tr>
<td>DSP6000D2</td>
<td>2 audio and 1 data channel decoder</td>
<td>$2,995.00</td>
<td>$2,819.00</td>
</tr>
<tr>
<td>DSP6000D4</td>
<td>digital encoder</td>
<td>$4,450.00</td>
<td>$4,189.00</td>
</tr>
<tr>
<td>DSP6000Q4</td>
<td>digital decoder</td>
<td>$4,450.00</td>
<td>$4,189.00</td>
</tr>
</tbody>
</table>

* Non-inventory item subject to return restrictions.
**RF Equipment**

**STL Antennas**

**MARK**

**SSH9A72GN**

The SSH9A72GN is a point-to-point grid antenna designed to work in any frequency between 940-960 MHz. The antenna has a mid band gain of 20 dB and half power beamwidth of 19° (horizontal) and 10° (vertical). It weighs only 30 lbs. (including feed and mount), and utilizes universal clamps for quick installation on pipe diameters from 1.9" to 3.5".

**Mfr. List $1985.00**

ONLY $884.00

**MARTI**

**SC48**

This low cost, 4' antenna is broadband for the 940 to 960 MHz aural STL band and is category B rated in vertical and horizontal planes.

**Features:** gain at 950 MHz 21.05 dbi; 1/2 power beamwidth of 19° (horizontal) and 10° (vertical). It weighs only 30 lbs. (including feed and mount), and utilizes universal clamps for quick installation on pipe diameters from 1.9" to 3.5".

**Mfr. List $895.00**

ONLY $843.00

**KATHREIN-SCALA**

**PR950**

Widely used for point-to-point STL links, telemetry, and UHF-TV, the PR Series Paraflector offers rugged construction for reliable long-term service, even in severe environmental conditions. Universal mounting bracket allows for easy horizontal or vertical mounting. Specify frequency when ordering.

**Mfr. List $860.00**

ONLY $840.00

**KATHREIN-SCALA**

**TY900**

The Scala TY-900 is a rugged broadband yagi antenna specifically designed for professional fixed-station applications in the 890-960 MHz band. The TY-900 is fabricated of 6061/76 aluminum rod and seamless drawn pipe, anodized for maximum reliability and corrosion resistance. The internal balun, coax feed and connector are sealed in a foam potting system to prevent moisture penetration and assure long service life. Input power rating is 100 watts, gain is 10 dB and impedance is 50 ohms.

**Mfr. List $150.00**

ONLY $147.00

**Transmitters**

**CROWN**

**FM SERIES**

More than just an FM exciter or amplifier, a Crown integrated FM transmitter system combines built-in audio processing and stereo generation in one rugged, compact unit. Each model provides excellent signal quality, ease of use, and economical long-term reliability with a variety of features including: quick set-up; built-in digital metering and diagnostics; 87-108 MHz user-selectable frequency range; 100/120 VAC, 220/240 VAC or DC operation. Reliable operation is a major design criterion. With Teflon circuit boards and copper heat spreaders in the RF chain, the unit functions with less heat for improved life span. A unique Automatic Level Compensation (ALC) circuit protects the unit from voltage, temperature and VSWR variations. If operating parameters move outside the safe operating range, the ALC automatically reduces output power to safe limits until normal conditions are restored. Highly efficient power amplifiers are added in the 1 kW and 2 kW transmitters.

The FM2000T 2 kW transmitter is broadband and 75 to 80% efficient across the band. It includes a power amplifier, power supply, FM100T driver and features hot-swappable 500 watt power modules, a responsive protection mode and a power-factor-corrected power supply.

The FM1000T 1kW transmitter includes power amplifier, power supply, FM30T driver and four hot-swappable 250-watt power modules. All Crown units feature a 3 year warranty.

**FM30T**

30-watt FM transmitter

**Mfr. List $4,195.00**

ONLY $3,824.00

**FM100T**

100-watt FM transmitter

**Mfr. List $6,150.00**

ONLY $5,295.00

**FM250T**

250-watt FM transmitter

**Mfr. List $7,495.00**

ONLY $6,471.00

**FM500T**

500-watt FM transmitter

**Mfr. List $9,795.00**

ONLY $8,412.00

**FM1000T**

1-kW transmitter

**Mfr. List $15,795.00**

ONLY $14,412.00

**FM2000T**

2-kW FM transmitter

**Mfr. List $20,795.00**

ONLY $19,000.00

**MARTI**

**PNP150**

The new Plug-n-Play 150 FM transmitter gives you all the reliability, performance, ease of use and support you've come to expect from Marti. The Plug-N-Play products use the latest in digital RF technology coupled with proven exciter technology from Broadcast Electronics. The exciter portion of the transmitter takes advantage of recent advances in DSP speed and efficiency to provide performance previously not available in this price range. Along with this ground breaking digital technology, the Plug-N-Play product line takes advantage of control and RF amplifier designs that have been proven through years of reliable use in the Broadcast Electronics exciter lines.

Features: accepts analog or digital audio input from an STL, ISDN or direct feed; built-in digital stereo generator and colorless audio processor; up to 150 watts into 1.5 to 1 VSWR; frequency range: 87.5 MHz to 108 MHz; jumper selectable to specific operating frequency; programmable in 10 kHz steps; full remote control ready; easy to install; rack mountable or suitable for table top operation; digital inputs: AES/EBU, S/PDIF, TOSLINK; analog inputs: composite, left and right, audio.

**Mfr. List $4,950.00**

ONLY $4,659.00

**MARTI**

**ME40**

The ME40 is a quality 40 watt synthesized FM exciter at a surprisingly low price. This is an excellent choice to replace your older exciter or for use as a standby. Features: 40 watts VSWR protected power, peak-hold baseband modulation LED display, test multimeter with forward and reverse power ranges, full remote capability; 2-year limited warranty.

**Mfr. List $3,495.00**

ONLY $3,290.00

* Non-inventory item subject to return restrictions.
We Still Get Rave Reviews

Ever since we introduced our groundbreaking integrated transmitter, we’ve been getting rave reviews. With more than 50 years of broadcast industry experience behind our company, it’s no wonder.

Just as importantly, at Crown Broadcast, we’re committed to designing and manufacturing the FM radio products that will earn you rave reviews from your listeners.

Call BSW today for these versatile and innovative products:

- Transmitters
- Exciters
- Translators and Satellators
- Amplifiers

(In power levels from 30 watts to 2 kW)

---

**QUANTUM M SERIES**

Designed for years of trouble free service, the totally solid state QUANTUM M-Series FM transmitters, provide an unsurpassed broadcast signal. These transmitters feature modular power amplifiers and are available in power levels between 1.2 and 5.4 kilowatts in 600 watt increments. You can buy precisely the amount of power you need. This makes the QUANTUM M-Series transmitters affordable to own and operate by avoiding the inefficiency of running a higher power transmitter at low output power levels. Up to 9.6 kW solid state FM models and up to 30 kW tube FM models are also available.

*QUANTUM1.2* | 1.2-kW solid state FM transmitter with exciter
---|---
Mfr. List $20,595.00 | ONLY $18,610.00

*QUANTUM1.8* | 1.8-kW solid state FM transmitter with exciter
---|---
Mfr. List $22,695.00 | ONLY $20,508.00

*QUANTUM2.4* | 2.4-kW solid state FM transmitter with exciter
---|---
Mfr. List $24,795.00 | ONLY $22,406.00

*QUANTUM3.0* | 3.0-kW solid state FM transmitter with exciter
---|---
Mfr. List $26,895.00 | ONLY $24,303.00

*QUANTUM3.6* | 3.6-kW solid state FM transmitter with exciter
---|---
Mfr. List $29,995.00 | ONLY $26,833.00

*QUANTUM4.2* | 4.2-kW solid state FM transmitter with exciter
---|---
Mfr. List $32,295.00 | ONLY $29,183.00

*QUANTUM4.8* | 4.8-kW solid state FM transmitter with exciter
---|---
Mfr. List $34,895.00 | ONLY $31,532.00

*QUANTUM5.4* | 5.4-kW solid state FM transmitter with exciter
---|---
Mfr. List $37,495.00 | ONLY $33,882.00

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**QUANTUM E SERIES**

The QUANTUM “E” establishes a new level in FM performance with the advantage of the highest power emergency back-up available in an exciter style package. QEI took the field-proven design of the model 695 exciter and incorporated a high power FET amplifier to deliver uncompromised performance as a transmitter, exciter, booster or optionally as a translator. The QUANTUM “E” is an all solid state, broadband, frequency synthesized “on carrier” direct FM transmission system, designed to exceed the FCC requirements for use in the FM broadcast band. The QUANTUM 150E, 300E and 600E are housed in a rack space saving dual 5-1/4" package. These transmitters will fit into virtually all transmitters to act as an exciter/drive upgrade for older systems.

*QUANTUM150E* | 150-watt FM exciter/transmitter
---|---
Mfr. List $4,950.00 | ONLY $4,473.00

*QUANTUM300E* | 300-watt FM exciter/transmitter
---|---
Mfr. List $5,595.00 | ONLY $5,147.00

*600E* | 600-watt FM exciter/transmitter
---|---
Mfr. List $7,795.00 | ONLY $7,044.00

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*Non-inventory item subject to return restrictions.*
**Transmitter Equipment**

**ALTRONIC**

ALTRONIC GROUP

Altronic Research, Inc., manufactures the Omegeline RF coaxial load resistors (dummy loads). These are economical, lightweight, portable dummy loads for terminating coaxial transmission lines and are available in air or water cooled models.

*Prices Based On Configuration

**DELTA**

COAXIAL TRANSFER SWITCHES

Delta Electronics offers a range of high quality RF related products including a series of coaxial transfer switches for 3-1/8" and 1-5/8" transmission line. These units can switch transmission line in less than two seconds with manual or remote operation.

*Call BSW For More Information

**ANDREW**

COAXIAL CABLE

The Andrew Corporation, world leader in the design and manufacture of communications equipment and systems, is well known in the radio broadcast community for supplying high quality transmission cable and related accessories. BSW is proud to represent a complete line of products for all your transmission cabling requirements including HELIX® foam and air dielectric cable connectors and accessories, rigid transmission line and accessories, and STL antennas.

*Call BSW With Your Requirements

**ELECTRO IMPULSE**

RF COAXIAL LOADS

Electro Impulse is a leading supplier of specialized equipment for the communications and broadcast industries such as dry, convection and forced air-cooled loads.

*Prices Based On Configuration

**JAMPRO**

FM ANTENNAS

Jampro manufactures a complete line of FM antennas and associated RF products including the "Penetrator" series of FM sidemount antennas, the JBCP "Rototiller" design and the revolutionary JBBP sidemount with balanced feed design. Jampro antennas are available in a wide variety of power levels and configurations for virtually any application. Over 35 years of manufacturing expertise goes into every antenna, combiner, filter and rigid line component they make.

*Call BSW For Prices And Specifications

**KINTRONICS**

ISOCOUPLERS

Kintronic Laboratories' Isocouplers provide versatility to existing AM radiating elements by allowing for installation of transmit/receive, FM and TV antennas operating in the frequency range of 30-1000 MHz without disrupting AM antenna characteristics.

*Pricing Based On Configuration

**CABLEWAVE**

COAXIAL CABLE

Cablewave Systems is dedicated to the design and manufacture of RF related products including: aluminum and fiberglass parabolic microwave antennas, Flexwell and Cellflex low loss coaxial cables, rigid coaxial lines, Flexwell elliptical waveguides, connectors, pressurization equipment, and RF associated accessories. BSW carries the complete line of Cablewave products and can supply the proper products for any situation.

*Call BSW Toll Free With Your Requirements

**02WIRELESS SOLUTIONS (TWR)**

LIGHTING EQUIPMENT

The TWR lighting division of 02wireless Solutions offers a full range of ETL-certified and FAA-approved obstruction lighting for any height or voltage requirement. Whether you need replacement lamps or parts, or need a complete lighting system design, BSW can plug you into the TWR resources you need.

*Call For BSW Pricing And Configurations
**BROADCAST TOOLS**

**DC8A**

This dial-up remote control allows the user to control a facility from any touch-tone telephone. The DC-8A will answer the phone line after the programmed number of rings (up to 20), accept an access code of up to 8 digits and if valid, will allow the control of 8 form-A relays and the monitoring of 8 logic level status inputs. **Features:** audio hybrid allows user to send and/or receive external audio, while controlling the unit; the pager alert function can activate up to 3 digital pagers; programming of nearly all functions via a standard touch-tone phone; defeatable CPC control; each relay may be configured for momentary, latching or interlocking closures.

**Mfr. List $279.00** **ONLY $265.00**

**ENC16**

The ENC-16 encodes all 16 DTMF tones. **Features:** modes for decimal, binary input contact closures, RS-232, single and sequential tone operation; telephone coupler w/autodialer and balanced output. Meters with the DEC-16 for a complete remote control system.

**Mfr. List $299.00** **ONLY $284.00**

**PBB24**

The PBB-24 provides 24 SPST buttons that may be used to remote control external equipment. **Features:** button caps allow for legend cards; 24 SPST N.O. heavy duty silent switches; 32 character-printable ASCII serial strings per switch; RS-232 serial port; non-volatile program memory; power and data activity LEDs.

**Mfr. List $319.00** **ONLY $303.00**

**UI411**

The UI-411 facilitates interfacing transmitters, audio/video equipment or any piece of equipment with differing logic levels and functions. **Features:** four optically isolated/bridged 5-28 volt AC or DC inputs that operate four SPDT relays with LED indicators; operates independently or paired for latched or momentary outputs; momentary or continuous inputs; onboard DIP switches allow 2 dozen configuration combinations; compatible with TTL/COMS logic levels, open collectors, contact closures or any voltage between 5 and 28 vdc/vAC; can monitor telephone ring voltage.

**Mfr. List $149.00** **ONLY $138.00**

**BOR-4**

4 independent 2PDT relay interfaces with two opto-isolated and logic inputs-programmable logic and pulse stretching (delays) from 500 ms (1/2 second) to 108 minutes.

**Mfr. List $159.00** **ONLY $151.00**

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*Non-inventory item subject to return restrictions.*
Remote Control

SINE SYSTEM RFC1/RAK/RP8

Call and monitor your transmitter from any telephone with the Sine Systems RFC1/RAK-1 and RP-8. This system, comprised of a remote facilities controller and relay panel (sold separately) is one of the most reliable in the industry. The RFC1/RAK-1 is the "brain" of the system and incorporates the popular RFC-1/B in a upgraded rack mount chassis. This unit now contains a 2400 baud 'AT' modem for external control by computer and a parallel printer port so you can have simultaneous modem and printer operation. It also features built-in battery backup and surge suppression on the phone line (with optional SP8/TO surge protector). The RP-8 is the interface to outboard equipment. It provides eight channels of telemetry input and control output. In addition to being controlled manually via telephone, the RFC1/RAK-1 can be programmed to perform tasks automatically.

RFC1/RAK dial up remote site controller with RAK1 Mfr. List $1,960.00 ONLY $1,540.00
RFC1B dial up remote site controller Mfr. List $1,250.00 ONLY $987.00
RAK1 rack adaptor with modem for RFC1B Mfr. List $700.00 ONLY $553.00
RP relay panel for Systems RFC1B Mfr. List $425.00 ONLY $365.00
SP8/TO battery backup/surge prot. for RFC1B Mfr. List $100.00 ONLY $79.00

SINE SYSTEM DAI-2

The DAI-2 is designed primarily to allow remote broadcasts at unattended stations but its uses are nearly unlimited. The DAI-2 combines a telephone autocoupler, a DTMF tone operated controller, audio switching, alarm sensing and output relay into an incredibly flexible system. The new relay panel includes one DPDT and seven SPDT relays with LED Indicators. The optional DA12/DB delay board can be used to eliminate the brief control tone bursts from reaching the air audio signal.

DAI-2 dial up audio interface Mfr. List $595.00 ONLY $762.00
*DAI/DB delay board for Sine Systems DB1 Mfr. List $135.00 ONLY $107.00

CIRCUITWERKES DR10

Control your equipment from anywhere there is a DTMF phone with the DR-10. Features: audio hybrid lets you control equipment while monitoring external audio; audio in and out are active balanced with gain controls; password protected; control 10 relays (two are DPDT) that can be momentary, latching or interlocked with other relays; a special momentary-at-end-of-tone mode makes it easy to control automation from the field without getting start tones on the air; relays can be assigned to any tone; anti-falsing and two-tone modes prevent unwanted closures during audio feeds; relays can beep when activated; four status inputs can dial pagers, etc. and can close relays when activated; auxiliary audio input lets you control the DR-10 from an external audio source, with or without telephone connection; status indicators for power, unlocked, DTMF and programming mode; external logic outputs for online and unlocked. Options: Silencer power, unlocked, DTMF and programming mode; external without telephone connection; status indicators for close relays when activated; auxiliary audio input lets you activated; four status inputs can dial pagers, etc. and can closures during audio feeds; relays can beep when

GENTNER VRC2500PKG

Intelligence, reliability and versatility make the VRC2500 one of the best values in remote facilities management. The remote site control unit is ideal for single-site stations providing 16 channels each of metering, status and command. The VRC2500 monitors your transmitter and alerts you if an alarm condition occurs. It also enables you to create commands and macros which can be executed automatically or at scheduled intervals. The dial-up option allows you to use a standard telephone to retrieve data, execute commands or macros, and receive alarm notifications. It also has the ability to operate unattended. A PC is only required for setup and monitoring, not for smart operation. The highly innovative Windows-compatible operating software is included. The VRC2500 system includes the main unit, one command relay, two wiring interfaces and one 2-wire modem. Call today for pricing on other systems.

VRC2500PKG dial-up remote site control Mfr. List $3,750.00 ONLY $3,530.00

MOSELEY MRC1620RT/MRC1620CT

The MRC1620 system consists of a remote terminal that allows an optional control terminal or IBM PC with TaskMaster20 software to monitor and control a remote facility from both dedicated and/or dial-up control points. The MRC1620 remote terminal comes equipped with 32 relay isolated command outputs (16 raise/16 lower), 16 TTL status inputs and 16 analog metering inputs with the required terminal connectors. All status channels are simultaneously displayed on a set of 16 LEDs. The front panel displays read-outs of selected channel number and telemetry data. LEDs indicate operation mode, alarms and other parameters. During alarm conditions, intelligent automatic corrective action can be taken by the remote terminal under the direction of the TaskMaster20. The remote terminal comes equipped with the appropriate modems to communicate over dedicated circuits.

*MRC1620RT MRC1620 remote site terminal Mfr. List $3,450.00 ONLY $3,081.00
*MRC1620CT MRC1620 control site terminal Mfr. List $1,550.00 ONLY $1,384.00
*T20 TaskMaster 20 software for MRC1620 Mfr. List $1,500.00 ONLY $1,015.00

* Non-inventory item subject to return restrictions.
## Remote Control

**RDL AUDIO CONTROL RELAYS**

Radio Design Labs' Stick-Ons™ are compact, high-quality audio interface devices that can be directly and discreetly mounted on equipment, under counter tops, or combined in rack mount systems. Requires 24-volt power supply (PS24A sold separately).

- **ST-ACR1** is an audio control relay (.5-5.0 sec. release - line in).
- **ST-ACRM1** is an audio control relay (.5-5.0 sec. release - mic in).
- **ST-ACR2** is an audio control relay (.5-50 sec. release - mic in).
- **ST-LCR1** is a logic controlled relay (momentary pulse).
- **ST-LCR2** is a logic controlled relay (alternate pulse).
- **ST-SSR1** is a solid state audio relay.

**STACR1**
- Mfr. List $93.00
- ONLY $76.00

**STACRM1**
- Mfr. List $95.00
- ONLY $77.00

**STACR2**
- Mfr. List $93.00
- ONLY $76.00

**STLCR1**
- Mfr. List $72.00
- ONLY $59.00

**STLCR2**
- Mfr. List $106.00
- ONLY $86.00

**STSSR1**
- Mfr. List $101.00
- ONLY $82.00

## Broadcast Tools

### DSC32/64

The DSC-32/64 allows complete remote control of two StarGuide II/III, Wegener Unity 4000 or ComStream receivers. An encoder control with a 16x2 LCD display provides local control and program descriptions, while external control may be in the form of serial or 32 contact closures. Sixty-four, thirty-two character ASCII character strings are provided for each receiver port. The unit also provides preset memory location for most networks. Custom programming is accomplished with a non-dedicated computer. Order today.

- **DSC32/64**
  - Dual satellite controller
  - Mfr. List $399.00
  - ONLY $379.00

### DSC20

The DSC-20 adds remote control capability to the StarGuide II/III, Wegener 4000, ComStream and SA Encore DSR-3610/AD-4595 receivers allowing control by serial and contact closures. The DSC-20 may be configured to control any combination of two receivers listed above. Customized programming is accomplished with a non-dedicated computer.

- **DSC20**
  - Dual satellite controller
  - Mfr. List $309.00
  - ONLY $265.00

### USC-16

The USC-16 provides remote channel selection for DAT-SEDAT digital audio cards installed in Scientific Atlanta DAT-32 series, Comtech/Fairchild DART-384 and Ariel receivers, along with 16 memory selections for Scientific Atlanta ENCORE, DSR-3610 or AD-4595 receivers. It features a 2400/9600 baud serial port for computer control, status and easy programming.

- **USC-16**
  - Satellite channel controller
  - Mfr. List $319.00
  - ONLY $265.00

### SUB03/SEN-6

The Circuitwerkes SUB-03 decodes Industry standard 25 Hz, 35 Hz and combination tones with dry contacts for each. Features: LEDs for all three outputs, audio presence and clipping LEDs, balanced input and output with gain adjustments and integral audio filtering. It may also be ordered for 50 Hz operation.

- **SUB03**
  - Subaudible tone decoder
  - Mfr. List $349.00
  - ONLY $244.00

- **SEN-6**
  - Subaudible encoder
  - Mfr. List $399.00
  - ONLY $362.00

### DTMF16/DS-8

The DTMF-16 listens to practically any audio source and activates its optocoupler output when it hears any of the sixteen DTMF tones. Jumper selectable modes are available for momentary, interlocking-latching, two-tone and anti-falsing. Applications include backup transmitter control over STL; radio or telephone coupler; remotely controlled audio switcher; etc. Options: Silencer option board lets you send inaudible DTMF control signals via your RPU, satellite, dedicated loops, or dial-up phone lines.

- **DTMF16**
  - DTMF decoder
  - Mfr. List $219.00
  - ONLY $178.00

- **DTMF**
  - DTMF encoder
  - Mfr. List $159.00
  - ONLY $139.00

*Non-inventory item subject to return restrictions.*
ARRAKIS
MODFLEX1

The popular Modulux Flex-Studio furniture package can be assembled in dozens of different ways to meet nearly any studio design. It can be assembled left or right-handed as well as in three standard configurations: Short L, Long L and Unbalanced U. All pedestal returns have front equipment racks and rear access doors. The table pedestals have both inside and outside access doors. A 60-inch interview table is standard. The console table is 36" deep and 45" wide to accommodate most consoles. And a 37" wide, console spanning, copy stand completes the package.

Modulux is a top-selling studio furniture system with nearly 2000 studios sold worldwide. It features solid oak trim, high-pressure laminate table surfaces, complete laminate finish inside and out, ease of assembly and fast delivery from factory stock.

*MODFLEX* modular studio furniture Mfr. List $4,995.00 ONLY $4,815.00

MIDDLE ATLANTIC
EDIT CENTER SERIES

Middle Atlantic's Edit Center studio furniture has been specifically designed for the rigorous demands of audio and video editing and post-production environments. Featuring two choices of high-pressure laminate desktops (cherry or graphite), the Edit Center system can be quickly arranged by simply rotating the unique side bay racks to the desired angle. Desks are available in two widths (60" and 84") and are designed with overbridges that fit multiple monitors at easy viewing angles. Each system comes complete with your choice of two styles of attached overbridge (with two under-bridge rackbays or with an underbridge open span), and features rotating speaker monitor platforms as standard equipment.

Side bay racks are available with plexiglass front doors and gasketed rear doors with ultra-low-noise cooling fans. Call today.

ELURD12DG+512DG 84" desk Mfr. List $5,341.00 ONLY $3,818.00
ESS12DC+512C 60" desk Mfr. List $3,981.75 ONLY $2,846.00

* Non-inventory items subject to return restrictions.
MIDDLE ATLANTIC
MULTIDESK VIDEO SYSTEM
MultiDesk Video System gives you the flexibility to create the ideal workstation from only six interchangeable components. Any system component may be connected with any other, allowing you to set up your furniture for the way you work. The lower 26.5" desktop height is ideal for hands-on production and the attractive gray-speckled, pressure-laminated top resists damage and is supported by heavy-duty 2" steel tube legs for stability. On the desks, heavy-duty risers hold all of your video monitors. Call BSW today to select the right components for your work space.

MDVCNR1 corner desk w/ flat overbridge Mfr. List $722.00 ONLY $533.00
MDVCNR3 corner desk w/ raised overbridge Mfr. List $860.00 ONLY $618.00
MDV2DSK straight desk Mfr. List $489.00 ONLY $359.00
MDVR12 side rack, multidesk series Mfr. List $244.00 ONLY $194.00
MDVOB overbridge for Middle Atlantic MDVR12 Mfr. List $160.00 ONLY $118.00
MDVW connecting wedge, multidesk series Mfr. List $120.00 ONLY $89.00

OMNIRAX
FORCE SERIES
OmniRax Force12 and Force24 are elegant and expansive workstations for audio/video editing and music production. Both are available in black melamine laminate or in combination with maple or mahogany formica desk and riser surfaces, creating a beautiful environment with a high-end look. The curved workstations come in two different overbridge designs: Force12 (18x80-inch table) has three 8-space rack units underneath the overbridge. Force24 (28x85-inch table) offers two larger 12-space racks underneath the desk.
OmniRax ProStation ST is a popular economical mixing station with straight sides and slightly less thick construction. But what it lacks in glamour it makes up in functionality. It features audio racks located both underneath and above the worksurface.

FRC12-B Force 12-Series desk (black) Mfr. List $1,450.00 ONLY $1,173.00
FRC12-MF Force 12-Series desk (mahogany) Mfr. List $1,700.00 ONLY $1,375.00
FRC12-MAF Force 12-Series desk (maple) Mfr. List $1,700.00 ONLY $1,375.00
FRC24-B Force 24-Series desk (black) Mfr. List $1,450.00 ONLY $1,173.00
FRC24-MF Force 24-Series desk (mahogany) Mfr. List $1,700.00 ONLY $1,375.00
FRC24-MAF Force 24-Series desk (maple) Mfr. List $1,700.00 ONLY $1,375.00
PSST-B Prostation desk (black) Mfr. List $1,280.00 ONLY $1,021.00
PSST-MF Prostation desk (mahogany) Mfr. List $1,530.00 ONLY $1,205.00
PSST-MAF Prostation desk (maple) Mfr. List $1,530.00 ONLY $1,205.00

* Non-inventory item subject to return restrictions.
**Equipment Racks and Accessories**

**MIDDLE ATLANTIC**

**WRS4**

The WRS series low-profile wall rack allows mounting of equipment in a vertical "knobs-up-fashion" for space efficiency and aesthetics. With adjustable rack rail providing 20' to 23' of usable rack depth, the innovative WRS design includes a backpan, body and solid hinged top cover to protect the equipment. Three sizes are available and each hold 150 lbs.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Mfr. List</th>
<th>Special Offer</th>
</tr>
</thead>
<tbody>
<tr>
<td>WRS4</td>
<td>4-space wall rack</td>
<td>$311.00</td>
<td>ONLY $186.00</td>
</tr>
<tr>
<td>WRS6</td>
<td>6-space wall rack</td>
<td>$334.00</td>
<td>ONLY $271.00</td>
</tr>
<tr>
<td>WRS8</td>
<td>8-space wall rack</td>
<td>$356.00</td>
<td>ONLY $289.00</td>
</tr>
</tbody>
</table>

**MIDDLE ATLANTIC**

**SLIM 5 SERIES**

A versatile rack frame system, the SLIM 5 provides a rugged, cost effective way to build out your studies and engineering rooms with the rack space you need. Features: patented bolt-together design ships knocked down via UPS; mechanically interlocking corner for exceptional strength; heavy-duty 14-gauge steel top and bottom; 2 pairs fixed-position 11-gauge threaded 10-32 front and rear rack rail; can be ganged together with or without optional cable chase; 19-1/8" OD width; finished in a durable black powdercoat. Optional oak or painted metal side panels available.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
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</tr>
</thead>
<tbody>
<tr>
<td>5-43</td>
<td>43-space (75.25&quot;) equipment rack</td>
<td>$371.25</td>
<td>ONLY $222.00</td>
</tr>
<tr>
<td>5-37</td>
<td>37-space (64.75&quot;) equipment rack</td>
<td>$355.75</td>
<td>ONLY $212.00</td>
</tr>
<tr>
<td>5-29</td>
<td>29-space (50.75&quot;) equipment rack</td>
<td>$339.00</td>
<td>ONLY $202.00</td>
</tr>
<tr>
<td>5-21</td>
<td>21-space (36.75&quot;) equipment rack</td>
<td>$308.00</td>
<td>ONLY $184.00</td>
</tr>
<tr>
<td>5-14</td>
<td>14-space (24.5&quot;) equipment rack</td>
<td>$273.50</td>
<td>ONLY $163.00</td>
</tr>
</tbody>
</table>

**MIDDLE ATLANTIC**

**PTRK-14/PTRK-21**

PTRK rolling racks are perfect for portable applications. Features: welded construction for a substantial 500 lb. weight capacity; 16-gauge steel throughout; smooth-rolling 4" cushion casters; locking front and rear doors standard; rubber padded, spring-loaded handles top mounted for balance; fully adjustable 10-32 threaded front rackrail; finished in a durable textured black powder coat.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Mfr. List</th>
<th>Special Offer</th>
</tr>
</thead>
<tbody>
<tr>
<td>PTRK14</td>
<td>14-space (34&quot;) rolling equipment rack</td>
<td>$585.00</td>
<td>ONLY $349.00</td>
</tr>
<tr>
<td>PTRK21</td>
<td>21-space (46&quot;) rolling equipment rack</td>
<td>$617.50</td>
<td>ONLY $368.00</td>
</tr>
</tbody>
</table>

**MIDDLE ATLANTIC**

**DR12**

This desktop rack unit provides 12 rack spaces for equipment mounting. Racks can secure to desktop with wood screws.

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>DR12</td>
<td>12-space desktop rack rail</td>
<td>$44.00</td>
<td>ONLY $27.00</td>
</tr>
</tbody>
</table>

**NIKEL B. ALDRS/RS-STD**

The Nigel B. ALDRS desktop stand features a 13RU (22.75") open frame with angle adjustment. The RS-STD heavy-duty portable rack is ideal for any rackmount equipment such as mixers, processing gear or test equipment. Features: upper rack with 13 rack spaces can tilt to desired angle. Rack in the pedestal base has 7 spaces.

<table>
<thead>
<tr>
<th>Model</th>
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<th>Mfr. List</th>
<th>Special Offer</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALDRS</td>
<td>desktop equipment rack</td>
<td>$200.00</td>
<td>ONLY $188.00</td>
</tr>
<tr>
<td>RS-STD</td>
<td>roll-around equipment rack</td>
<td>$400.00</td>
<td>ONLY $375.00</td>
</tr>
</tbody>
</table>

**RAXXES**

**ISORAXX**

The new IsoRaxx acoustic isolation rack provides engineers and musicians with the ideal place to house computers, samplers, hard-disc recorders, MDs, and other noisy studio equipment. The IsoRaxx allows you to keep your gear nearby for easy access, but reduces ambient noise by as much as 19 lb. With 14 spaces for your rack equipment, the IsoRaxx is available in two depths: 24" or 30" overall depth. Choose from two attractive melamine finishes: light maple and ebony fleck. A clear 1/4" plexiglass panel in the front door allows perfect visibility while the solid rear door houses the specially designed blower box. Three cable access passages in the rear of the rack allow for SCXI, AC and audio cables to be routed separately, reducing cable noise. Interior depth is shortened by about 3" in front of the fan box at the top of the rack.

<table>
<thead>
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<th>Model</th>
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</tr>
</thead>
<tbody>
<tr>
<td>ISR1424B</td>
<td>isolation rack, 24&quot; deep, ebony fleck</td>
<td>$1,299.00</td>
<td>ONLY $1,084.00</td>
</tr>
<tr>
<td>ISR1424M</td>
<td>isolation rack, 24&quot; deep, maple</td>
<td>$1,299.00</td>
<td>ONLY $1,084.00</td>
</tr>
<tr>
<td>ISR1430B</td>
<td>isolation rack, 30&quot; deep, ebony fleck</td>
<td>$1,399.00</td>
<td>ONLY $1,167.00</td>
</tr>
<tr>
<td>ISR1430M</td>
<td>isolation rack, 30&quot; deep, maple</td>
<td>$1,399.00</td>
<td>ONLY $1,167.00</td>
</tr>
</tbody>
</table>

* Non-inventory item subject to return restrictions.*
**Rack Equipment Accessories**

**MIDDLE ATLANTIC**

**CDRACK**
- 7" high (4-space) unit holds 40 CDs. Brushed, black anodized finish.
- **CDRACK** Mfr. List $102.25
- **ONLY $61.00**

**CLAW**
- Easily organize and keep your patch cords from getting tangled with the claw.
- **CLAW** wall mount cable hanger
  - Mfr. List $15.25
  - **ONLY $10.00**

**D3**
- Fully enclosed drawer with ball-bearing slides is 14.5" deep. Also available in 2-, 4-, 5- and 8-space versions.
- **D3** 3-space rack drawer
  - Mfr. List $162.00
  - **ONLY $97.00**

**FAN**
- 115-volt fan features smooth, ball-bearing design for quiet operation. 4-1/2" size fits FP1, FP-2 and FP-3 fan panels. Hardware and cord included.
- **FAN** fan
  - Mfr. List $54.00
  - **ONLY $33.00**

**DAT**
- 5-1/4" (3-space) unit holds 27 DATs. Brushed, black anodized finish.
- **DAT** DAT storage rack
  - Mfr. List $79.00
  - **ONLY $48.00**

**EB SERIES**
- Middle Atlantic makes quality rack equipment and these blank panels are no exception. Choose from 1-, 2-, 3- and 4-rack-space panels.
  - **EB1** 1-space blank rack panel
    - Mfr. List $8.00
    - **ONLY $5.00**
  - **EB2** 2-space blank rack panel
    - Mfr. List $11.00
    - **ONLY $7.00**
  - **EB3** 3-space blank rack panel
    - Mfr. List $13.00
    - **ONLY $8.00**
  - **EB4** 4-space blank rack panel
    - Mfr. List $16.00
    - **ONLY $10.00**

**EVT1**
- Flanged steel vent panels with black finish.
  - **EVT1** 1-space vent rack panel
    - Mfr. List $10.50
    - **ONLY $6.00**
  - **EVT2** 2-space vent rack panel
    - Mfr. List $13.00
    - **ONLY $8.00**

**FP1**
- These fan panels, made from 16-gauge flanged aluminum, accept 4-1/2" fans. Panels are three rack spaces high and finished in black textured finish. TFP models feature black textured finish.
  - **FP1** fan panel for 1 fan
    - Mfr. List $30.00
    - **ONLY $18.00**
  - **FP-2** fan panel for 2 fans
    - Mfr. List $41.00
    - **ONLY $25.00**
  - **FP-3** fan panel for 3 fans
    - Mfr. List $43.00
    - **ONLY $26.00**
  - **TFP1** fan panel for 1 fan
    - Mfr. List $31.00
    - **ONLY $19.00**
  - **TFP2** fan panel for 2 fans
    - Mfr. List $33.00
    - **ONLY $20.00**
  - **TFP-3** fan panel for 3 fans
    - Mfr. List $36.00
    - **ONLY $22.00**

**RM-CPU**
- Occupying 3 spaces, the RM-CPU features 16-gauge steel construction and 1/8" thick aluminum face. Holds your PC computer securely.
  - **RM-CPU** computer chassis rack
    - Mfr. List $656.00
    - **ONLY $391.00**

**RMKB**
- The one-space keyboard rack mount includes a high-quality standard AT-style, 101-key keyboard.
  - **RMKB** computer keyboard rack
    - Mfr. List $534.00
    - **ONLY $319.00**

**SECL2/SECL4**
- Keyed plexiglass hinged security cover.
  - **SECL2** 2-space security cover
    - Mfr. List $54.50
    - **ONLY $33.00**
  - **SECL4** 4-space security cover
    - Mfr. List $64.00
    - **ONLY $39.00**

**U2**
- This heavy-duty metal 2-space rack shelf will hold your recording and audio processing equipment. Fits equipment up to 17-3/8" wide.
  - **U2** 2-space utility shelf
    - Mfr. List $56.00
    - **ONLY $28.00**

**UTR1**
- Universal mounting hole pattern works with many 1/2 rack units.
  - **UTR1** 1/2 rack universal shelf
    - Mfr. List $28.00
    - **ONLY $17.00**

**Rack Lighting**

**MIDDLE ATLANTIC**

**HW500**
- Here's a large quantity of 500 3/4" long screws with 10-32 threads. A pre-installed nylon cup washer speeds installation while providing a clean, professional appearance.
  - **HW500** 500 rack screws/washers
    - Mfr. List $100.00
    - **ONLY $60.00**

**RACK RELEASE**

**QR**
- Once in place, these quick release rack fasteners allow you to mount and unmount rack equipment without a screwdriver. 4 to a package.
  - **QR** 4 quick-release rack fasteners
    - Mfr. List $6.00
    - **ONLY $4.00**

**LITTLITE**

**LIGHTS AND ACCESSORIES**
- With their sleek, unobtrusive look, Littlites complement any audio studio. The 12" L-3/12 high-intensity light features a quartz halogen bulb, a dimmer control with off position, a wall plug-in transformer with 6" cord and permanent mounting hardware (6" and 18" sizes available at the same price).
  - The popular G-series lamps offer low-intensity bulbs, available in 6", 12" and 18" models. They feature a BNC base for use with popular mixing consoles. For lamps with XLR connectors see the RLX series.
  - **L3/12** lamp set with attached 12" gooseneck
    - Mfr. List $59.00
    - **ONLY $33.00**
  - **WB** weighted base for Littlite L3/12
    - Mfr. List $14.00
    - **ONLY $8.05**
  - **HTC** high tension clamp
    - Mfr. List $9.00
    - **ONLY $8.05**
  - **6G** 6" gooseneck lamp with BNC connector
    - Mfr. List $26.00
    - **ONLY $24.00**
  - **12G** 12" gooseneck lamp with BNC connector
    - Mfr. List $28.00
    - **ONLY $26.00**
  - **18G** 18" gooseneck lamp with BNC connector
    - Mfr. List $30.00
    - **ONLY $27.00**
  - **QS** 5-watt replacement bulb
    - Mfr. List $9.00
    - **ONLY $8.05**
  - **1815** low intensity bulb
    - Mfr. List $2.69
    - **ONLY $2.69**
**Rack/Studio Lighting**

**LITTLITE RLX SERIES**

The high-quality RLX series rack lights consists of a black single space rack panel equipped with two 3-pin XLR connectors ready to receive one or two detachable Littlites (6", 12" or 18" lengths). The convenient dimmer allows you to adjust the brightness of the lamp to the desired intensity. The flexible gooseneck allows you to direct the light where desired.

*RLX* lamp rack panel w/two XLR lamp connectors
Mfr. List $95.00
**ONLY $86.00**

6X 6" gooseneck lamp w/ XLR connector
Mfr. List $52.00
**ONLY $29.00**

12X 12" gooseneck lamp w/ XLR connector
Mfr. List $34.00
**ONLY $31.00**

18X 18" gooseneck lamp w/ XLR connector
Mfr. List $36.00
**ONLY $33.00**

**LUXO MH806**

This well built, heavy-duty copy holder is designed for letter and legal-size documents. A spring-loaded holder clip keeps documents in place. The MH806 holds up to 4 lbs.

MH806 copy holder
Mfr. List $150.00
**ONLY $134.00**

**FIDELIPAC 65340/340REC**

A popular warning light seen in stations nationwide, the 65340 has 3" red back-lit letters on a black background. Available in several languages. Dimensions: 5'H x 10"W x 2-1/2"D. Custom text available.

65340 "ON AIR" light, 3" high letters
Mfr. List $80.00
**ONLY $69.00**

340REC "RECORDING" light, 3" high letters
Mfr. List $80.00
**ONLY $69.00**

**TITUS TECHNICAL LABS OAL SERIES**

The OAL Series provides a beautiful, practical means of indicating that a studio is in use. The lights feature a smoked glass window mounted in either a gold or silver frame which is attached to a solid wood mounting base. Oak is the standard wood used; however, custom woods are also available. The warning "ON AIR" or "RECORDING" only appears when illuminated and is blacked out when not in use. Orientation is either vertical or horizontal and wiring is class-2 type low voltage. Letters are 1-1/2" high.

OAL_____ warning light (specify when ordering)
Mfr. List $125.00
**ONLY $116.00**

**NIGEL B POWER/LIGHTING ACCESSORIES**

Nigel B offers a 35" 12-outlet AC power strip with full surge protection and gooseneck lamp socket that can be mounted vertically in a standard equipment rack (2 units fit in a 70" rack for 24 outlets). Innovative power strips are available featuring triple surge protection with options including a BNC gooseneck lamp and a front panel telephone/modem jack with cord for a phone extension in your rack.

3512SPL 12-outlet power strip with lamp socket
Mfr. List $150.00
**ONLY $140.00**

SP-8 8 OUTLET POWER STRIP
Mfr. List $140.00
**ONLY $132.00**

SP8LT 8-outlet power strip with lamp socket
Mfr. List $170.00
**ONLY $160.00**

6XHNI 6" gooseneck lamp w/ BNC connector
Mfr. List $40.00
**ONLY $38.00**

**PROLITE ON AIR SERIES**

Designed to fit any variety of interior specifications, these Prolite Architectural series lights are attractive and functional. The housing and canopy are triple ground, cast aluminum with a baked, matt black enamel finish. Dimensions are 7.5 inches square with .75" high letters casted with either English or metric text. The lens canopy ceiling pendant mount. Two 20-watt, 6.5" long-life lamps are supplied. Choose from three different configurations to mount where you want: single lens flat, dual lens, wall/ceiling "ON AIR" light, 3" high letters
Mfr. List $231.95
**ONLY $205.00**

AW single lens, wall "ON AIR" light
Mfr. List $231.95
**ONLY $205.00**

AP dual lens, pendant "ON AIR" light
Mfr. List $274.00
**ONLY $249.00**

AC dual lens, wall/ceiling "ON AIR" light
Mfr. List $251.95
**ONLY $229.00**

RW single lens, wall "RECORDING" light
Mfr. List $231.95
**ONLY $205.00**

RP dual lens, pendant "RECORDING" light
Mfr. List $274.00
**ONLY $249.00**

RC dual lens, wall/ceiling "RECORDING" light
Mfr. List $251.95
**ONLY $229.00**

AIRLENS "ON AIR" lens only
Mfr. List $42.00
**ONLY $39.00**

RECLENS "RECORDING" lens only
Mfr. List $42.00
**ONLY $39.00**

BLANKLENS blank panel
Mfr. List $18.95
**ONLY $15.00**

L101 "ON AIR" warning light, .75" high letters
Mfr. List $20.00
**ONLY $19.00**

**FURMAN ARPRO**

The AR-PRO voltage regulator accepts single phase input AC voltages within two capture ranges (88-134 or 170-264 volts) and converts them to the North American standard 120 volts (+/-4%). This unit is ideal for situations where local power is unstable, or for use worldwide to convert different voltage levels. AC-Pro includes twelve AC outlets on its rear panel and two in the front panel, each featuring spike and RFI protection.

*ARPRO* worldwide AC voltage regulator
Mfr. List $2,295.00
**ONLY $1,728.00**

**FURMAN AR1215/AR2330**

Furman AC line voltage regulators protect audio, video, computer and electronic equipment from problems caused by AC line voltage irregularities.

AR-1215 Features: delivers a stable 120 ±5V AC whenever the input AC line voltage is between 97V and 141V; eight outlets on the back panel, one on the front; output capacity: 15 amps; eight-tap toroidal autoformer; LED voltage meter; extreme voltage shutdown indicator.

AR-2330 Features: output voltage may be switched to either 220, 230 or 240; regulation to ± 10V AC; output capacity 30 amps; six outlets on back, one on the front; eight-tap toroidal autoformer; LED voltage and current meters; extreme voltage shutdown.

*AR1215 AC voltage regulator
Mfr. List $599.00
**ONLY $447.00**

*AR2330 AC voltage regulator
Mfr. List $1,895.00
**ONLY $1,662.00**
FURMAN

**PLUGLOCK**

PlugLock is the secure solution to your wall wart problem. This inexpensive, heavy-duty outlet strip securely locks in place up to five bulky transformer or regular electrical plugs.

* Non-inventory item subject to return restrictions.

FURMAN

**IT1220**

Designed for the most critical, ultra-low-noise installations, the IT-1220 can supply 20 amps of balanced AC power. It drastically reduces hum and buzz caused by ground currents from power supply filtering and by radiation from supply cables into sensitive signal sources, such as microphones. Features: up to 16 dB improvement in grounding from supply cables into sensitive signal sources, such as microphones. Dimensions: CD8OW (23-1/2"W x 15-1/8"H x 4-5/8"D), CS80W (20-13/16"W x 24-1/2"H x 3"D), W100 (23-1/2"W x 24-1/2"H x 4-3/4"D).

*Non-inventory item subject to return restrictions.*

**PL8/PL-PLUS**

This original, high-quality Furman power conditioner and light module is the perfect accessory to any rack-mount system. Install in the top slot of your rack, and the eight switched AC outlets on the rear panel will power up and protect your equipment. All are for use with 120 volt AC lines, and are rated at 15 amps (or a total load of 1800 watts, combining all outlets). The RR-15 and RR-15-PLUS feature two slide-out, swiveling light fixtures to provide discrete illumination of your equipment. The RR-15-PLUS adds a display of incoming AC line voltage. RR-15NL is similar to the RR-15, but without the rack lights.

**RACKRIDER SERIES**

A Furman RackRider power conditioner and light module is the perfect accessory for any rack-mount system. Install one in the top slot of your rack, and the eight switched AC outlets on the rear panel will power up and protect your equipment. All are for use with 120 volt AC lines, and are rated at 15 amps (or a total load of 1800 watts, combining all outlets). The RR-15 and RR-15-PLUS feature two slide-out, swiveling light fixtures to provide discrete illumination of your equipment. The RR-15-PLUS adds a display of incoming AC line voltage. RR-15NL is similar to the RR-15, but without the rack lights.

**DR. FERD**

PSA

The PSA (AKA Dr. Ferd's Wart Remover) is an easy answer for those frustrating wall wart power supply transformers. The Wart Remover takes the bulky housing of the transformer away from the power strip.

**BRYCO**

**MEDIA STORAGE RACKS**

These high-impact molded plastic racks hold 8 DAT/16MD or 40 DAT/80MD (21-3/8"W x 9-1/2"H x 2"D). Or for your CDs, Bryco's plastic rack holds 63 CDs (15-3/4"W x 13-3/4"H x 4-3/4"D).

**PORTABLE CASES**

If travelling with your media, these high-impact molded plastic DAT/MiniDisc racks in cordura carrying cases are superb. The smaller rack holds 8 DATs or 16 MDs. The larger model holds 40 DATs or 80 MDs. Carrying cases are made specific to DAT or MD size due to the differences in media height.
ACOUSTIC WALL PANELS

Middle Atlantic now offers acoustic wall panels to improve your studio's audio quality and give it the professional look you want. These panels are made of 2' thick molded fiberglass for good acoustical performance and long life. All components have a Class "A" fire hazard rating and come with the same craftsmanship you expect in any Middle Atlantic product. For example, the edges are reinforced using a resin hardener and each panel comes with metal mounting clips for easy installation. Outfit your studio in one of two sizes (24x24" or 24x48") and your choice of colors (beige or gray).

AP24X24B 24"x24"x2", beige acoustic panel
Mfr. List $133.50  ONLY $80.00

AP24X24G 24"x24"x2", gray acoustic panel
Mfr. List $133.50  ONLY $80.00

AP24X48B 24"x48"x2", beige acoustic panel
Mfr. List $189.00  ONLY $113.00

AP24X48G 24"x48"x2", gray acoustic panel
Mfr. List $189.00  ONLY $113.00

CUTTING WEDGE 2000

Cutting Wedge 2000® is made of 2 pound density high quality acoustic foam that eliminates many of the inconsistencies of other types of foam. The futuristic design allows for increased sound absorption because the sound waves travel through multiple surfaces. It comes in a standard 2.25" stackable foam allowing you to add additional layers of foam for increased absorption; You can also add additional layers of Cutting Wedge 2000® foam to rooms that may already have the Cutting Wedge Classic predecessor. Both 12"x12" (64 tiles/box) and 2'x4' (8 tiles per box) ship via UPS. Choose charcoal, tan or blue.

CW2X2X12(4CH, TAN, BLUE) BOX 2'x2"x2.5" stackable foam (box of 4)
Mfr. List $177.60  ONLY $163.00

CW2X12X2(4CH, TAN, BLUE) BOX 12"x12"x2.5" stackable foam (box of 64)
Mfr. List $177.28  ONLY $163.00

SONEX SOUND TREATMENT

SONEXclassic sound treatment features a modified anechoic wedge design for cost-effective, yet impressive sound control. Made from Class 1 fire-rated willtec foam, these 2' x 4" panels are fiber-free and available in 2" or 3" thickness. SONEXClassic panels come impregnated with a charcoal dye (colortec) which provides consistent color throughout the panel, from top surface to back. Available colors are painted charcoal, beige, brown, blue or light grey. Please call with your requirements.

BROADCAST TOOLS

TIME SYNC II

The Time Sync provides three separate GPS time referenced relay outputs and one serial port. The first relay pulses once every 15 minutes. These times are programmed for 13:00, 28:00, 43:00 and 58:00. The second relay pulses at the "Top of the Hour" (00:00). The final output is an open collector with a 1 ms pulse every second. The 4800-baud, RS-232 serial port provides UTC time in HH:MM:SS format.

TIMESYNC II  time sync Mfr. List $429.00  ONLY $408.00

BROADCAST TOOLS

PSC/PSC II

With the PSC (Programmable Schedule Controller) store and control up to 160 time and date events. It's equipped with 20 SPDT relays and can also send up to 32 serial custom commands. All program events are stored in nonvolatile EEPROM memory. Programming the PSC is simple. Just attach it to a PC running of-the-shelf communications software such as Bitcom, ProCom Plus, Windows Terminal, etc. The PSC features an AC line 60 Hz time base for precise timing, DST correction.

*PSC: programmable schedule controller
Mfr. List $419.00  ONLY $390.00

*PSCII: programmable schedule controller
Mfr. List $869.00  ONLY $822.00

ESE

ES192AP/ES185A/ES101

ESE offers a wide selection of accurate time-keeping systems, including state-of-the-art GPS master clocks and slave systems.

The ES192A is an affordable 12-hour master clock with hours, minutes and seconds displayed in .56" high amber LED numbers. Features: an ES1 serial time code output; a 1 pps output; line frequency time base.

The ES185A master clock/time code generator features an 8-channel GPS receiver for maximum accuracy (45 nanoseconds) anywhere in the world. It provides outputs for SMPTE/EBU, IRIG-B, ASCII (R5232C) and ESE time code. Features: .56" display; rugged 1RU chassis; indoor/outdoor antenna with cable; automatic daylight savings correction; timezone offset; four-hour battery back-up and more.

The new ES101 is a lower-cost GPS master clock/time code generator. ESE also offers a wide variety of digital slave displays ranging from 4" to 4' high with six enclosure types available. Call today for more information on ESA master clock and slave systems.

*ES192AP 12-hour master clock
Mfr. List $320.00  ONLY $308.00

*ES185A GPS receiver/master clock
Mfr. List $2,495.00  ONLY $2,400.00

*ES101 GPS receiver/master clock
Mfr. List $995.00  ONLY $957.00

ESE

MX-5100 SERIES

The smartest analog clock in the world, the MX5100 series is able to self-set its hands to the correct time as received via any one of three different time code inputs (SMPTE/EBU, ASCII or ESE). Daylight Savings Time correction is automatic. Alternate modes of operation allow the unit to synchronize with an alternating 12- or 24-hour impulse signal, or to act as a stand-alone clock. Sweep or step mode and time zone offset are user-set via rear panel DIP switches. Choose from dial faces of .5", 12" or 16" in diameter. Options: rack mount versions, lighted dial with brightness control and "UL" operation.

*LX5105 5" self-setting analog clock
Mfr. List $575.00  ONLY $553.00

*LX5112 12" self-setting analog clock
Mfr. List $575.00  ONLY $553.00

*LX5116 16" self-setting analog clock
Mfr. List $675.00  ONLY $650.00

* Non-inventory item subject to return restrictions.
ESE

**ES520/LX520**

The ES520 is a 4-digit, 60 minute timer with .56" amber LED displays. Three front panel buttons (Start, Stop and Reset) are used to control the unit. The timer can also be remotely operated by a rear panel connector.

*ES520 60-minute timer  
  Mfr. List $185.00  
  ONLY $178.00

*LX520 60-minute timer  
  Mfr. List $285.00  
  ONLY $275.00

RADIO SYSTEMS

CT-6 TIMING SYSTEMS

CT-6 clock/timers offer a front panel mode switch to select on-the-fly between clock or timer (of course, the other mode keeps running). CT-6 timing systems can also be synchronized with an optional master driver board (which fits into desktop or large models). All connectors are already in place on the clocks for easy connection to a master unit. Even CT-6 analog clocks can be added as slave displays. Call today and let BSW set your station up with an entire Radio Systems master/slave clock system.

**CT6THIN** and **CT6DSK** feature .56' high digits and are 7' wide x 2.5' tall. **CT6LARGE** features 2.3' high digits and is 15' wide x 5.25' tall.

*CT6THIN  thin clock/timer  
  Mfr. List $135.00  
  ONLY $131.00

*CT6DSK  desktop clock/timer  
  Mfr. List $175.00  
  ONLY $169.00

*CT6LARGE  large clock/timer  
  Mfr. List $95.00  
  ONLY $334.00

CONEX

**JDB1**

The Conex Jumbo Digital Barometer shows the barometric pressure at a glance. Its large display allows it to be easily visible from across the room. Features: trend indicator shows how fast pressure is rising or falling; reads in inches of mercury or millibars; 9-volt alkaline battery runs over a year.

**JDB1**  
  digital barometer  
  Mfr. List $189.00  
  ONLY $152.00

**WJ10**

WeatherJack is a simple, battery-operated barometer that connects to your PC via a RS-232 port. Now you can easily view pressure and outside temperature graphs and trends on your desktop. It's an excellent tool for your station's weather updates and records up to 5 days of data even while your PC is off.

**WJ10**  
  barometric pressure/temperature instrument  
  Mfr. List $120.00  
  ONLY $118.00

RODCO

**COMPUTEMP 5 PLUS**

The Computemp 5 Plus accurately monitors outdoor and indoor temperatures and time of day. Features: temperature alarm alerts to any predetermined setting; week-long memory of daily high and low temperatures and the exact time of occurrence; continually alternating LCD display; battery back-up memory; removable temperature sensors; optional rotary switch for monitoring up to nine locations; 30' outdoor cable standard (additional lengths available).

**COMPUTEMP 5 PLUS**  
  temperature/time instrument  
  Mfr. List $100.00  
  ONLY $82.00

INFORMER II

For accurate temperature reporting, use the Informer II. The LCD display operates on one "AA" battery (replace yearly). It records high and low temperatures in memory, is very accurate and works in high RF fields. Includes 50 feet of cable for outside probe (additional lengths available).

**INFORMER II**  
  temperature sensor  
  Mfr. List $59.00  
  ONLY $54.00

* Non-inventory item subject to return restrictions.
Telcos ONE-x-SIX

The ONE-x-SIX has all of the telephone interface equipment needed for talk show programming. A single rack mount unit houses both a Telos ONE digital hybrid and a six-line, broadcast phone system which includes all of the most popular features you expect in a on-air system. For system control, the ONE-x-SIX is packaged with a desktop Switch Console (sold separately). The ONE-x-SIX is very easy to install - all six phone lines are connected using standard RJ-11C plugs and all audio connections are XLR. Special function buttons on the Switch Console are used to automatically select the next caller, to put callers on the air or to conference, to control external recorders and delays, and to access several other unique features. A standard telephone set may be used for call screening. Call for more information today.

235
6-line Telos ONE-x-SIX telephone system
Mfr. List $1,430.00
CALL FOR PRICE

310
core control surface for Telos 235
Mfr. List $590.00
CALL FOR PRICE

TS612-6
6-line telephone system
Mfr. List $3,149.00
ONLY $2,964.00

TS612-12
12-line telephone system
Mfr. List $4,195.00
ONLY $3,949.00

910003200
extra control surface for TS-612
Mfr. List $489.00
ONLY $461.00

GENTNER

TS612

The popular Gentner TS612 multi-line telephone system makes it easy to manage call-in broadcast programming. The TS612 contains two digital hybrids that provide a high-quality interface to six or twelve telephone lines. The dual hybrids allow the TS612 to operate as a single-studio telephone system able to conference up to four callers simultaneously or as a two-studio system able to conference two callers to each studio. The TS612 supports a dedicated “phone-like” call-screening control surface. An off-air screener takes incoming calls and places them in a screened-hold queue. The on-air talent or producer presses the NEXT button on the main control surface and the call is immediately “on-the-air”. The integrated mix-minus provides superior audio quality and simple installation. Automatic gain control (AGC) provides consistent audio levels on all calls. Features: Split-Caller mode brings the two hybrid outputs to the audio console independently; Split-Hybrid mode brings the two hybrid outputs to the console independently and returns your program mix to the TS612 on two separate channels; Previous-Hold places calls on hold automatically when you select another line; Two-Button Hold allows you to place a single call on hold when two or more lines are conferenced together; Two-Button Off allows you to disconnect any line by pressing the Off button; 6 or 12 lines (also expandable to 12); auto mix-minus; RS-232 control (Enhanced); drop-in console panels; AUX I/O control (Enhanced); Options: on-air screening software.

GENTNER

TS612

The popular Gentner TS612 multi-line telephone system makes it easy to manage call-in broadcast programming. The TS612 contains two digital hybrids that provide a high-quality interface to six or twelve telephone lines. The dual hybrids allow the TS612 to operate as a single-studio telephone system able to conference up to four callers simultaneously or as a two-studio system able to conference two callers to each studio. The TS612 supports a dedicated “phone-like” call-screening control surface. An off-air screener takes incoming calls and places them in a screened-hold queue. The on-air talent or producer presses the NEXT button on the main control surface and the call is immediately “on-the-air”. The integrated mix-minus provides superior audio quality and simple installation. Automatic gain control (AGC) provides consistent audio levels on all calls. Features: Split-Caller mode brings the two hybrid outputs to the audio console independently; Split-Hybrid mode brings the two hybrid outputs to the console independently and returns your program mix to the TS612 on two separate channels; Previous-Hold places calls on hold automatically when you select another line; Two-Button Hold allows you to place a single call on hold when two or more lines are conferenced together; Two-Button Off allows you to disconnect any line by pressing the Off button; 6 or 12 lines (also expandable to 12); auto mix-minus; RS-232 control (Enhanced); drop-in console panels; AUX I/O control (Enhanced); Options: on-air screening software.

Talk radio is suddenly intimate

Telos Twox12™
Integrated Talkshow System

Using POTS or ISDN lines, the TWOx12 handles up to 12 callers on two built-in digital hybrids. The intuitive phone controller tames even the wildest talk shows.

Telos Digital Talkshow Systems

Telos Talk show systems offer the ultimate in a talk show system designed to be intuitive, easy-to-use, and to control even the wildest shows. With new generation of digital talk show systems from Telos. With intuitive, easy-to-use controls that help make your talk segments smooth and error free (whether you're juggling a few calls or a few dozen) and the latest advances in digital phone hybrids from the company that invented them. Never have your callers sounded so consistently loud and crystal clear - it's the next best thing to having them there. Don't just talk to your audience... get intimate.

Top Seller
**TELEXIS TWOX12**

Wouldn't it be great to have a talk show system that connects directly with digital lines — without all the hassle of analog conversion? The solution is the TWOx12 Talk Show System from Telos. This 12-line telephone system uses two digital hybrids to bring ISDN clarity right into the studio. Initially, you purchase either a POTS or ISDN system. Then if you would like to add the other capability simply purchase an optional add-on module. Each system uses a 12-line telephone control surface (TWOX12DD sold separately). Features: two high-performance digital telephone hybrids for high-quality conferencing between callers — no need for any external equipment; AGC/limiting functions plus three-band dynamic equalizer; studio-grade 20-bit A/D conversion; unmatched send/receive separation using three-band dynamic EQ; studio-grade 20-bit A/D for any external equipment; AGC/limiting functions plus priority channel gains for high-quality conferencing between callers — no need for any external equipment; AGC/limiting functions plus three-band dynamic equalizer; studio-grade 20-bit A/D conversion; unmatched send/receive separation using three-band dynamic EQ; studio-grade 20-bit A/D for any external equipment; AGC/limiting functions plus priority channel gains.

**TELEXIS**

**POTS**

**ISDN**

**CALL FOR PRICE**

**Mfr. List $51,180.00**

**TWOX12ISDNCARD ISDN I/O card for Telos Twox12**

**CALL FOR PRICE**

**Mfr. List $280.00**

**TWOX12POTSCARD POTS I/O card for Telos Twox12**

**CALL FOR PRICE**

**Mfr. List $54,180.00**

**HBRIDS/COUPLERS**

**INOVONICS PBX**

The PBX allows as many as 7 devices to share a single line for both incoming and outgoing calls. Features: up to 7 devices per unit. PBXs can be daisy-chained to accommodate additional devices if needed; incoming calls are selectively routed to the proper extension. Ports can be enabled, disabled, or modified. Priority channel gains immediate access to the line (useful for alarms and signal problem notifications); easy installation.

**PBX000 telephone line switch**

**Mfr. List $420**

**ONLY $376.00**

**CIRCUITWERKES AC-12**

Circuitwerkes AC-12 fits up to a dozen affordable, full-featured auto-couplers in a 3 rack space ($1/4") unit. It offers two balanced bridging input, switchable busses for audio distribution. Each coupler card has an individual 600 ohm bi-directional audio connection with level trim for special feeds. Cards can be removed or installed while unit is powered without affecting the other cards. Features: LED indicators for incoming ring, on-line, clipping and power; strappable input attenuator which accepts a wide range of input signals; individual relay isolated, user-selected, momentary or latching dry contacts upon connection; automatic signal limiting. Optional CP-1 call progress decoder available for PBXs and installations not providing normal end-of-call hang-up signals.

**AC12 auto coupler chassis**

**Mfr. List $349.00**

**ONLY $323.00**

**AC18 coupler card for Circuitwerkes AC12**

**Mfr. List $175.00**

**ONLY $152.00**

**CP1 call progress decoder for AC12**

**Mfr. List $100.00**

**ONLY $93.00**

**CIRCUITWERKES HC-3**

The HC-3 automatically answers your phone line on a programmable number of rings. It features a simple hybrid circuit that separates incoming and outgoing telephone audio, bridging balanced audio input with a send level control and a low impedance, balanced output. The HC-3's features make it ideal for a variety of telephone tasks such as listen lines, concert lines and installations not providing normal end-of-call hang-up signals. Features: LED indicators for incoming ring, on-line, clipping and power; strappable input attenuator which accepts a wide range of input signals; individual relay isolated, user-selected, momentary or latching dry contacts upon connection; automatic signal limiting. Optional CP-1 call progress decoder available for PBXs and installations not providing normal end-of-call hang-up signals.

**HC3 auto answer telephone coupler**

**Mfr. List $249.00**

**ONLY $191.00**

**CIRCUITWERKES HC-3**

The HC-3 automatically answers your phone line on a programmable number of rings. It features a simple hybrid circuit that separates incoming and outgoing telephone audio, bridging balanced audio input with a send level control and a low impedance, balanced output. The HC-3's features make it ideal for a variety of telephone tasks such as listen lines, concert lines and installations not providing normal end-of-call hang-up signals. Features: LED indicators for incoming ring, on-line, clipping and power; strappable input attenuator which accepts a wide range of input signals; individual relay isolated, user-selected, momentary or latching dry contacts upon connection; automatic signal limiting. Optional CP-1 call progress decoder available for PBXs and installations not providing normal end-of-call hang-up signals.

**HC3 auto answer telephone coupler**

**Mfr. List $249.00**

**ONLY $191.00**

**COMREX TCB-1/TCB-2**

TCB-1 broadcast coupler sends and receives program material via the switched telephone network. This unit requires no external power and connections are via standard modular plugs. The TCB-1 contains an FCC-registered coupler which provides isolation from hazardous voltages and currents and includes an active circuit to hold the telephone line. Includes 1/4" jack for line level input. Built specifically for broadcast use, the TCB-2 auto-answer coupler is perfect for listen-line applications. Just plug in the standard connectors, attach the power supply and you're ready to go. Coupler answers on the first ring and disconnects when calling party hangs up.

**TCB1A telephone coupler**

**Mfr. List $150.00**

**ONLY $141.00**

**TCB2A auto answer telephone coupler**

**Mfr. List $250.00**

**ONLY $234.00**

**COMREX MIX-MINUS BRIDGE**

While mixing remote audio sources to program can be easily done on a studio console, it can be very difficult to manage the audio feed back to each remote site. The MIX-MINUS Bridge makes it easy to handle this process by creating up to 5 separate mix-minus feeds (a sum of all program audio except for the audio coming from that device). These feeds are necessary because hosts at remote sites cannot tolerate the time delay associated with modern audio processing. The MIX-MINUS Bridge sends a backfeed to all devices from the studio's audition bus. Inputs are separately selectable, levels are individually controllable, and an IFR feed is available to each source for producer cues.

**MIXMINUSBRIDGE mix-minus bridge**

**Mfr. List $1,200.00**

**ONLY $1,123.00**

**COMREX LXT/R**

This basic system restores the low end on telephone transmissions, offering a substantial improvement for telephone remotes. LXT/R combines encoding/decoding functions and a telephone coupler in one unit and can be set up to send or receive with a flip of a front panel switch. A high frequency enhancement circuit has been added to the encoder for improved audio quality. Compatible with all Comrex One Line Systems. An LXT/R is required on both send and receive ends of the telephone line.

**LXT single line frequency extender**

**Mfr. List $850.00**

**ONLY $796.00**

*Non-inventory item subject to return restrictions.*
## Hybrids/Couplers

### EXCALIBUR

**HC-1/HA-1**

The HC-1 gives you the simplest, quickest, most convenient way to connect audio to a telephone. The HC-1 connects in series with the handset of any telephone using modular connectors. External audio is connected via 1/4" connectors on back. The unit is passive, so no power is required. Simply press the front panel on-off button and external audio in and out are connected to your telephone.

The HA-1 hybrid adapter allows you to use your favorite broadcast hybrid with almost any telephone ... old, new, single or multiple line, etc. Since the HA-1 hooks up through your telephone instrument's handset connector, no connection to the telephone line is needed.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>HC-1</td>
<td>telephone coupler</td>
<td>$83.00</td>
</tr>
<tr>
<td>HA-1</td>
<td>telephone hybrid adapter</td>
<td>$88.00</td>
</tr>
</tbody>
</table>

### GENTNER

**TELEHYBRID**

TeleHybrid turns your existing phone system into a broadcast-ready telephone system. TeleHybrid installs easily to any phone set (analog, digital, single, or multiple line) as long as the handset is detachable with a modular plug. Once connected to your studio phone, TeleHybrid will provide high quality digital nulling for full duplex audio without echo or feedback. Operation is simple: answer each call with the handset as you normally would. When you're ready to put the call on the air, just set the handset down on TeleHybrid's pressure sensitive keypad.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>TELEHYBRID</td>
<td>digital telephone hybrid</td>
<td>$705.00</td>
</tr>
</tbody>
</table>

### GENTNER

**HYBRID COUPLER/AUTO COUPLER**

Hybrid Coupler is a low-cost telephone coupler that provides both Send and Caller capabilities. It turns the two-wire telephone circuit into a four-wire system.

If you're looking for an automatic answering and disconnect hybrid coupler, the Auto Coupler is just what you need. It gives you both Send and Caller capabilities.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>HC</td>
<td>telephone coupler</td>
<td>$188.00</td>
</tr>
<tr>
<td>AUTO COUPLER</td>
<td>auto answer telephone coupler</td>
<td>$329.00</td>
</tr>
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</table>

### HENRY ENGINEERING

**DIGISTORRI/AUDIO ONLINE**

DigiStor II is a digital multi-message storage system suited for telephone 'information lines' (e.g., concert, ski report, scores, etc.). DigiStor II will store up to 8 minutes of monaural audio with a bandwidth of 6.5 kHz for playback via a regular telephone line. Up to 8 messages are stored in digital flash memory with no battery backup needed. Recording and playback is via local or remote control; it records from either a mic or line level source.

Audio Online is Henry Engineering’s fully automated “listener information line” system providing concert information, weather/ski/surf reports, school closings and more. Audio Online is caller interactive. It’s fully automatic and runs on your PC computer completely unattended. Messages are recorded on the computer’s hard drive. An 80 MB drive will store over 2 hours of messages. Up to 16 phone lines can be answered simultaneously with hundreds of messages available to callers (order a 2-, 4-, 8- or 16-line systems).

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>DIGISTORII</em></td>
<td>information line message recorder</td>
<td>$770.00</td>
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<tr>
<td><em>ONLINE2</em></td>
<td>2-line automated information system</td>
<td>$962.00</td>
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<td><em>ONLINE4</em></td>
<td>4-line automated information system</td>
<td>$1,539.00</td>
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<tr>
<td><em>ONLINE8</em></td>
<td>8-line automated information system</td>
<td>$2,597.00</td>
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<tr>
<td><em>ONLINE16</em></td>
<td>16-line automated information system</td>
<td>$4,712.00</td>
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### GENTNER

**TELEHYBRID**

TeleHybrid turns your existing phone system into a broadcast-ready telephone system. TeleHybrid installs easily to any phone set (analog, digital, single, or multiple line) as long as the handset is detachable with a modular plug. Once connected to your studio phone, TeleHybrid will provide high quality digital nulling for full duplex audio without echo or feedback. Operation is simple: answer each call with the handset as you normally would. When you're ready to put the call on the air, just set the handset down on TeleHybrid's pressure sensitive keypad.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>TELET</td>
<td>digital telephone hybrid</td>
<td>$705.00</td>
</tr>
</tbody>
</table>

### JK AUDIO

**INNKEEPER SERIES**

The JK Audio Innkeeper 1X digital hybrid gets high-quality audio in and out of the telephone for talk radio. It connects audio signals to a standard analog telephone line without the variations in quality found with traditional analog hybrids. It's especially good at preventing trans-mix/receive crosstalk. The Innkeeper 1X uses a 16-bit digital signal processor to continuously monitor the phone line and audio signals to deliver better separation. The dual-convergence algorithm achieves superb trans-hybrid loss, typically exceeding 50 dB. Features: AGC, caller ducking and 1 kHz tone generator; 16-bit DSP technology; proprietary auto null algorithm; auto answer/disconnect; headphone jack; monitor speaker terminals; Voice Presence Compensation for richer caller audio; balanced XLR/mic/line input; balanced XLR caller output; Balanced XLR user-defined output; Innkeeper 1XR is a rack mount version. Options: Guest Module 1 remote control keypad.

The original Innkeeper 1 and Innkeeper 1R do not offer the new AGC, caller ducking and tone generator features.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>INNKEEPER1X</em></td>
<td>desktop digital telephone hybrid</td>
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<td><em>INNKEEPERT1X</em></td>
<td>rack mountable digital telephone hybrid</td>
<td>$839.00</td>
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<td><em>INNKEEPER1</em></td>
<td>desktop digital telephone hybrid</td>
<td>$862.00</td>
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<tr>
<td><em>INNKEEPER1R</em></td>
<td>rack mountable digital telephone hybrid</td>
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<tr>
<td><em>GUESTMODULER1</em></td>
<td>remote control keypad for Innkeeper 1</td>
<td>$164.00</td>
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</table>

* Non-inventory item subject to return restrictions.
Great Sounding

Telephone Audio

**Six-Line Telephone System**

The TS612-6 six-line telephone system is an excellent choice for broadcast talk shows. A basic TS612 system consists of a rack-mounted control system, two Gentner digital superhybrids, I/Os for six telephone lines and a tabletop control surface. 

*Features include:* automatic mix-minus, telephone line selection and conference buttons; Split-Caller and Split-Hybrid modes; a handset for talking with callers off-line, remote control via RS232; expandable to 12 lines and up to 3 control surfaces.

Gentner TS612-6 List $3,149.00 Only $2,964.00

Gentner TS612-12 (12-line system) List $4,195.00 Only $3,949.00

**24-bit Digital Telephone Hybrid**

Gentner's digital hybrid provides the highest quality audio interface between your telephone line and audio equipment. With its 24-bit digital signal processing, it's an excellent hybrid for use with your digital or analog console.

*Features include:* three remote-accessible presets; auto mix-minus, adjustable compressor and expander; acoustic echo cancellation; 3-band digital EQ; balanced analog XLR I/O; balanced digital AES/EBU I/O.

Gentner DH30 List $1,795.00 Only $1,690.00

**Quality Telephone Audio Hybrids**

Interfacing your audio equipment to a telephone line has never been easier and more affordable. Gentner's analog and digital telephone hybrids are reliable and offer excellent audio quality. Choose between the SPH10 analog hybrid and two digital hybrids, the DH20 single and DH22 dual, each with 16-bit digital signal processing.

*Features include:* Built-in monitor amp allows monitoring of calls without headset; Balanced XLR inputs and outputs; SPH10 autotuning and equalization makes callers sound great; DH20/DH22 with auto mix-minus, selectable AGC & caller cueing.

Gentner SPH10 (Analog Hybrid) List $499.00 Only $447.00

Gentner DH20 (Digital Hybrid) List $995.00 Only $937.00

Gentner DH22 (Dual Digital Hybrid) List $1,595.00 Only $1,502.00

**To Order Call BSW**

1 800 426 8434
**HENRY ENGINEERING**

**MIXMINUS PLUS**
MixMinus Plus is a differential summing amplifier designed to add a Mix-Plus output to a broadcast audio console. This output is typically used to feed the send input of a telephone hybrid device. MixMinus Plus subtracts the hybrid receive signal from the program output, creating a program mix, minus the receive audio. The null adjustment will provide 40 dB rejection.

MixMinusPlus telephone mix-minus  Mfr. List $195.00  
ONLY $163.00

**RAYK AUDIO**

**THAT-1/THAT-2**
Connect THAT-1 or THAT-2 between your telephone and handset for quick access to audio in and out of the telephone. They work with analog, digital, PBX and ISDN telephones. THAT-1 features RCA I/Os. THAT-2 adds XLR I/Os and a handset type selector switch.

THAT1 telephone handset audio tap w/RCA  Mfr. List $150.00  
ONLY $133.00

THAT2 telephone handset audio tap w/XLR  Mfr. List $125.00  
ONLY $199.00

**RADIX**

**TLM500**
This portable, battery powered mini-console can turn any modular telephone into a remote broadcast studio link or telephone interview control center. Simply plug the telephone handset cord into the TLM along with a studio quality microphone and headphones. The telephone is dialed normally and incoming calls can be answered. Features: mic and line inputs; low battery indicator; peak reading LED and headphone amplifier. AC adaptor available.

TLM500 telephone line mixer  Mfr. List $229.00  
ONLY $202.00

**RDLC**

**ST-TC1**
Radio Design Labs' Stick-Ons™ are compact, high-quality audio interface devices that can be directly and discreetly mounted on equipment, under counter tops, or combined in rack mount systems. The ST-TC1 is a telephone system coupler. It is intended to be connected to an on-site telephone switching unit. It requires 24-volt power supply, (PS24A sold separately).

STTC1 telephone coupler  Mfr. List $99.00  
ONLY $81.00

PS24A power supply for RDLC Stick-On™  Mfr. List $18.00  
ONLY $15.00

**SOUND AMERICA**

**TAC/TAC+/TELEWORD**
TAC and TAC+ are inserted between the handset and handset jack on the telephone. TAC provides a switch to match input levels and also a mute switch for the handset mic. TAC+ adds a momentary mic mute (cough) and selector switches for different input attenuation and impedance ranges.

Teleword is a standard telephone with a built-in audio coupler and an amplified electret condenser mic.

TAC telephone coupler  Mfr. List $99.00  
ONLY $96.00

TAC+ telephone coupler interface  Mfr. List $110.00  
ONLY $107.00

TELEWORD telephone coupler  Mfr. List $156.00  
ONLY $151.00

**TELOS**

**ONE/ONE PLUS ONE**
The Telos ONE is the perfect low-cost solution for any telephone interface application. It automatically adapts to each call and all processing is in the digital domain. Features: sophisticated AGC on input and output; an advanced downward expander on the caller audio; digital processing to reduce feedback when monitoring with open speakers; the inputs are switchable for mic or line level and two outputs are provided.

The Telos ONE plus ONE starts with two independent Telos ONE digital hybrids in a single rack-unit chassis. A unique internal mix-minus matrix cross couples the outputs of the two hybrids. In a dual hybrid application, you need send the Telos ONE plus ONE only a single mix-minus.

120-1 desktop Telos ONE digital telephone hybrid  Mfr. List $560.00  
ONLY $578.00

125 rack mountable Telos ONE digital telephone hybrid  Mfr. List $688.00  
ONLY $748.00

150 Telos ONE plus ONE dual digital telephone hybrids  Mfr. List $1,980.00  
ONLY $1,683.00

801 rack mount kit for Telos 120-1  Mfr. List $80.00  
ONLY $71.00

**TELOS**

**100 DELTA**
The advanced digital signal processing in the Telos 100 Delta results in full-duplex, natural sounding conversation on even the most difficult phone lines. Smart digital gain control and equalization offer increased caller intelligibility. The EQ examines the caller audio in three bands and automatically equalizes the high and low bands. Other digital processing components include logarithmic dB dynamics control, context sensitive output AGC, and feedback suppression for greater gain before feedback when monitoring callers through open speakers.

140 rack mountable Telos 100 Delta digital telephone hybrid  Mfr. List $1,780.00  
ONLY $1,513.00

**TELOS**

**TWO**
The Telos TWO ISDN hybrid contains two digital hybrids, so you can conference two callers internally, and all mixing is done completely in the digital domain. Digital phone lines (BRI/U or S) let you take advantage of clean, pure digital caller audio, right from the "Central Office"—along with truly independent send and receive paths, lower noise and distortion and faster call setup. Built-in Ethernet connectivity makes remote control and software upgrades, AES/EBU and analog outputs give you maximum flexibility. Call for more information today.

TWO rack mountable ISDN digital telephone hybrid  Mfr. List $2,980.00  
ONLY $2,533.00

*Non-inventory items subject to return restrictions.*
The Bird 43 Directional Wattmeter accurately measures forward or reflected power in coaxial transmission lines under any load condition. Each model 43 consists of a line section, "QC" (Quick Change) connectors and an indication meter housed in a rugged, corrosion-resistant aluminum case. Plug-in elements, purchased separately, determine the power rating and the frequency range. Elements can be purchased at any time and replaced in the field. Call for pricing on the elements for your application.

**Test Equipment**

**Goldline GL1K**
The GL1K is a microphone input tester consisting of tone generation and phantom power detector built into a standard 3-pin XLR male connector. When inserted into an input connector, the LED indicator will light showing that there is a phantom power voltage present. If a voltage is present, a 1 kHz tone will be sent into the mic input.

Mfr. List $39.95
ONLY $34.00

**Goldline ASA108/PN2**
ASA108 is a professional-quality, 10-octave analyzer covering a wide frequency range, and featuring a built-in mic. Features: IEC A or C weighting; freeze display function; battery/external power; selectable decay function.

Mfr. List $229.00
ONLY $221.00

**Goldline TS1/T52**
The TS1 provides a combination of three precision test instruments and is capable of making audio frequency tests with a high degree of accuracy and in less time than conventional instruments. The TS1 combines a low distortion oscillator, a frequency counter, and a dB meter in a compact unit complete with AC power supply. The T52 adds an impedance meter.

Mfr. List $469.00
ONLY $399.00

Mfr. List $639.00
ONLY $542.00

**Goldline SNG1**
The SNG1 offers laboratory type features and noise weightings in an affordable and compact package. Features: true balanced front and rear panel outputs; selectable white, pink and USASI noise spectra; generates true stereo noise; low DC offset; close channel tracking (>0.5 dB); input offers unlimited noise envelopes; outputs drive either 600 or 50 ohms.

Mfr. List $735.00
ONLY $727.00

**Goldline TT15**
TT15 is a battery operated, low distortion sine wave oscillator with five selectable frequencies (40 Hz, 400 Hz, 1 kHz, 10 kHz, and 15 kHz) and three selectable output levels (-30 dB, -10 dB and 0 dB). Useful for spot checking frequency response, calibrating mixers with tape recorders and other level matching jobs. RCA output jack.

Mfr. List $46.00
ONLY $43.00

**Goldline SWIZZ ARMY**
With a comprehensive connection set that includes XLR, 1/4", RCA, 1/8", TT and MIDI connectors, the Swizz Army can be used to tell the exact wiring of any cable or adaptor. The device clearly shows continuity, opens and shorts, even intermittent shorts! It also features test tone generation, phantom power detect and grounded XLR shield detect. Runs on 2 "AA" batteries.

Mfr. List $150.00
ONLY $120.00

**Goldline MR1**
Neutrik Minirator MR1 provides a comprehensive set of audio signals for performance checking, maintenance and repairs. The battery-powered Instrument features low distortion Sine Wave 20 Hz to 20 kHz, white/pink noise, square wave, polarity test and more. Call today.

Mfr. List $174.00
ONLY $165.00

*Non-inventory item subject to return restrictions.*
POTOMAC
AA-51A/AG-51

The AA-51A is a multipurpose, precision audio analyzer designed specifically to enable the measurement of critical audio parameters in terrestrial broadcast transmitter facilities. This instrument measures audio level, total harmonic distortion, intermodulation distortion, frequency response, wow and flutter, stereo signal phasing, left channel/right channel amplitude ratio and frequency. The AA-51A exhibits excellent RF shielding.

The AG51 produces low distortion sine wave signals from 20 Hz to 200 kHz, a 3.15 kHz fixed frequency wow and flutter test signal and an intermodulation test signal of 60 Hz and 7 kHz at a 4:1 ratio. Output signals are simultaneously available at levels of up to +20 dBm at 60 Hz and 7 kHz at a 4:1 ratio. Outputs are balanced (or unbalanced) at a source impedance of 600 ohms (or 150 ohms).

*AA51A audio analyzer
Mfr. List $4,450.00

*AG51 audio generator
Mfr. List $4,030.00

Critical audio parameters in terrestrial broadcast systems are balanced (or unbalanced) at a source impedance of 600 ohms (or 150 ohms).

RDL
RUOSC4A

This device features 4 separate oscillators set at 100 Hz, 1 kHz, 7.5 kHz and 15 kHz. Tones sequence through, holding on each for a user-selectable period from 3 to 30 seconds with a silent period between the 15 kHz and 100 Hz tones. A hold button allows the user to manually hold a tone indefinitely until the hold button is pushed again. Continuing to push the hold button selects the next frequency for fully manual operation. Output connections are made via barrier block terminals.

*RUOSC4A sequencing audio oscillator
Mfr. List $263.00

ONLY $213.00

OSCILLATORS/NOISE GENERATOR

Radio Design Labs' Stick-OnsTM are compact, high-quality audio interface devices that can be directly and discreetly mounted on equipment, under counter tops, or combined in rack mount systems. Active units require a 24-volt power supply such as the PS24A (sold separately).

These two handy oscillators provide separate left and right audio signals. Choose between ST-OSC2A (1 kHz and 10 kHz) or ST-OSC2B (100 Hz and 400 Hz).

ST-NG1 is a pink and white noise generator.

STOSC2A oscillator, 1 kHz and 10 kHz
Mfr. List $101.00

ONLY $82.00

STOSC2B oscillator, 100 Hz and 400 Hz
Mfr. List $101.00

ONLY $82.00

STNG1 white and pink noise generator
Mfr. List $124.00

ONLY $101.00

TERRASONDE

ATB1

One of the most comprehensive portable testers in the world, the Audio Toolbox costs a little more than others, but it offers a complete set of powerful, accurate audio tools. It uses DSP technology and professional-quality analog audio stages, along with a graphical LCD display and balanced I/Os to give audio engineers complete control over audio circuits. Functions include: acoustic analysis tools (sound level meter, real-time analyzer, reverb decay time, energy time graph, polarity test, noise criteria); test functions (signal generator, level meter, frequency counter, signal-to-noise ratio, sweeps, sample scope, distortion meter); session helpers (time code tools, MIDI helper, MIDI transmitter, tempo computer, human cancellation, instrument tuner); utilities (monitor amplifier, cable tester, power tests). Connectors include balanced XLR and 1/4", unbalanced RCA and MIDI.

*ATB1 multi-function audio tester
Mfr. List $999.00

ONLY $792.00

AMERICAN RECORDER

CO2

The CO-2 is the world's smallest cleaner for removing dust and particles from all audio equipment. The CO-2 uses a special dispenser with a 12-gram cartridge of high-velocity, pure carbon dioxide gas, having six times the power of regular aerosols. The empty cartridge can be recycled and additional replacement cartridges are economically priced. Order today.

*CO2 CO2 dispenser
Mfr. List $20.00

ONLY $18.00

ROLLS

PT102

The PT102 consists of two battery operated units, a transmitter and receiver. The transmitter creates a pulse that is sent through your audio system. The receiver then picks up the signal at various intervals in the system, and indicates whether or not the system is in or out of phase. The PT102T transmitter emits a positive-going pulse via a speaker, or a 1/4" unbalanced jack. The PT102R speaker is placed near a microphone which may be connected to the PT102R receiver or to your audio system. Plugging into the 1/4" line in jack on the receiver disables the mic.

*PT102 phase testing system
Mfr. List $150.00

ONLY $108.00

WHIRLWIND

QBOX

With the Qbox, send a tone or signal over any XLR line. In one battery-powered unit, you have a microphone, a speaker, a test tone generator, outputs for standard headphones, a 1/4" jack for line in and voltage presence LEDs for confirming phantom or intercom power.

QBOX
Mfr. List $200.00

ONLY $135.00

WHIRLWIND

TESTER

Check for shorts and bad connections easily with this Whirlwind cable tester. The Tester accommodates XLR, 1/4" and phono plugs. Easily fits in your tool box. 9-volt battery is required.

TESTER
Mfr. List $110.00

ONLY $73.00

WHIRLWIND

TESTER2

The digital circuitry employed in the Whirlwind Tester2 represents the latest technology in cable testers. The Tester2 will completely test any 2 or 3 conductor cable by checking the continuity of every connection at one end of the cable to every connection at the other end. An LED readout will then identify exactly how the cable is wired, immediately ending guesswork with non-standard cables. The Tester2 also generates test tones for confirming the integrity of signal lines, and by using a shorting plug, long cables can be checked when only one end is available.

TESTER2
Mfr. List $159.95

ONLY $136.00

* Non-inventory items subject to return restrictions.
## Applicant/Lessee

**Legal Name and Trade Name**

<table>
<thead>
<tr>
<th>Legal Name and Trade Name</th>
<th>Date</th>
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**Contact Person**

<table>
<thead>
<tr>
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<th>Title</th>
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**General Manager**

<table>
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**Nature of Business/Call Letters**

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## Parent Company

**Name**

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**Owner's Name**

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## Bank References

**Name of Bank/Branch**

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**Account Manager**

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**Fax #**

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**Acct. # (savings/money market)**

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## Trade References

**Company Name**

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<th>Telephone #</th>
<th>Account #</th>
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## Conditions of Sale:

1. All invoices from Broadcast Supply Worldwide will be paid within Net 30 days unless otherwise stated on your invoice.
2. Any discrepancies in billing or problems with defective or damaged equipment must be reported within 48 hours of receipt.
3. All shipments are F.O.B. point of origin unless stated otherwise on your invoice.
4. A finance charge of 18% per year or 1.5% per month will be charged on any unpaid balance that exceeds terms stated on your invoice.
5. All collection agency or attorney fees will be paid by the buyer.
6. Suitability of products for intended use is the sole responsibility of the customer.

**Corporate Officer’s Signature**

<table>
<thead>
<tr>
<th>Print Name and Title</th>
<th>Date</th>
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*An authorized signature by a corporate officer constitutes an agreement with Broadcast Supply Worldwide to comply with all the terms stated for condition of sale on an open account credit basis. It also grants permission to verify information on this agreement.*

* Non-inventory items subject to return restrictions.
Order Form

4 Ways to Order:
1. Phone Toll-Free (800) 426-8434
2. Fax Toll-Free (800) 231-7055
3. Visit our Website: http://www.bswusa.com
4. Photocopy this order form, fill out, and mail.

Billing Address:
Call Letters/Co. Name ____________________________
Address _______________________________________
City __________________ State ______ Zip ___________
Phone #(______ ) Fax #(______ )
Attn: __________________________________________

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Prices confirmed by BSW Sales Representative ____________________________
Date ____________________________

Please indicate desired method of shipping:
_____ UPS Surface _____ Federal Express Economy (2 day)
_____ Federal Express Overnight _____ Other (specify) __________________________

Please indicate method of payment:
_____ Visa _____ MasterCard _____ Discover Card _____ American Express _____ Money Order _____ Company Check
_____ Personal Check _____ Open Account/Net 30*

Credit Card Acct Number ____________________________
Expiration Date ____________________________
Name Imprinted on Card ____________________________

Card Billing Address ____________________________
City ______ State ______ Zip ___________

SUBTOTAL __________________

**SHIPPING/HANDLING __________________
TOTAL __________________

*Net 30 day billing offered to accounts on approved credit. (See pages 127 for credit application) **Shipping charges are based on actual shipping weights; please call for price quote if paying in advance. Shipping charges will be added to credit card if provided. All prices are subject to verification and change. A BSW representative will phone you for complete confirmation prior to shipping product. Personal checks gladly accepted, subject to Tele-Check approval.

All returns are subject to approval. Please call for a return authorization number. In some cases a restocking charge may apply.

* Non-inventory item subject to return restrictions.
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WAVESTATION 3.0

WaveStation is state-of-the-art on-air digital audio automation software for Windows®. It utilizes Microsoft standard audio files (compressed or non-compressed), MP2, MP3 files (via CODEC), and TM Century files. Wave Station can run entirely automated or as a live-assist system and will easily Interface with your satellite receiver for satellite automation. It can import program log data from virtually any traffic management or music scheduling system. Call now for more info.

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