www.beradio.com

Radio™

THE RADIO TECHNOLOGY LEADER

2002 Product Source

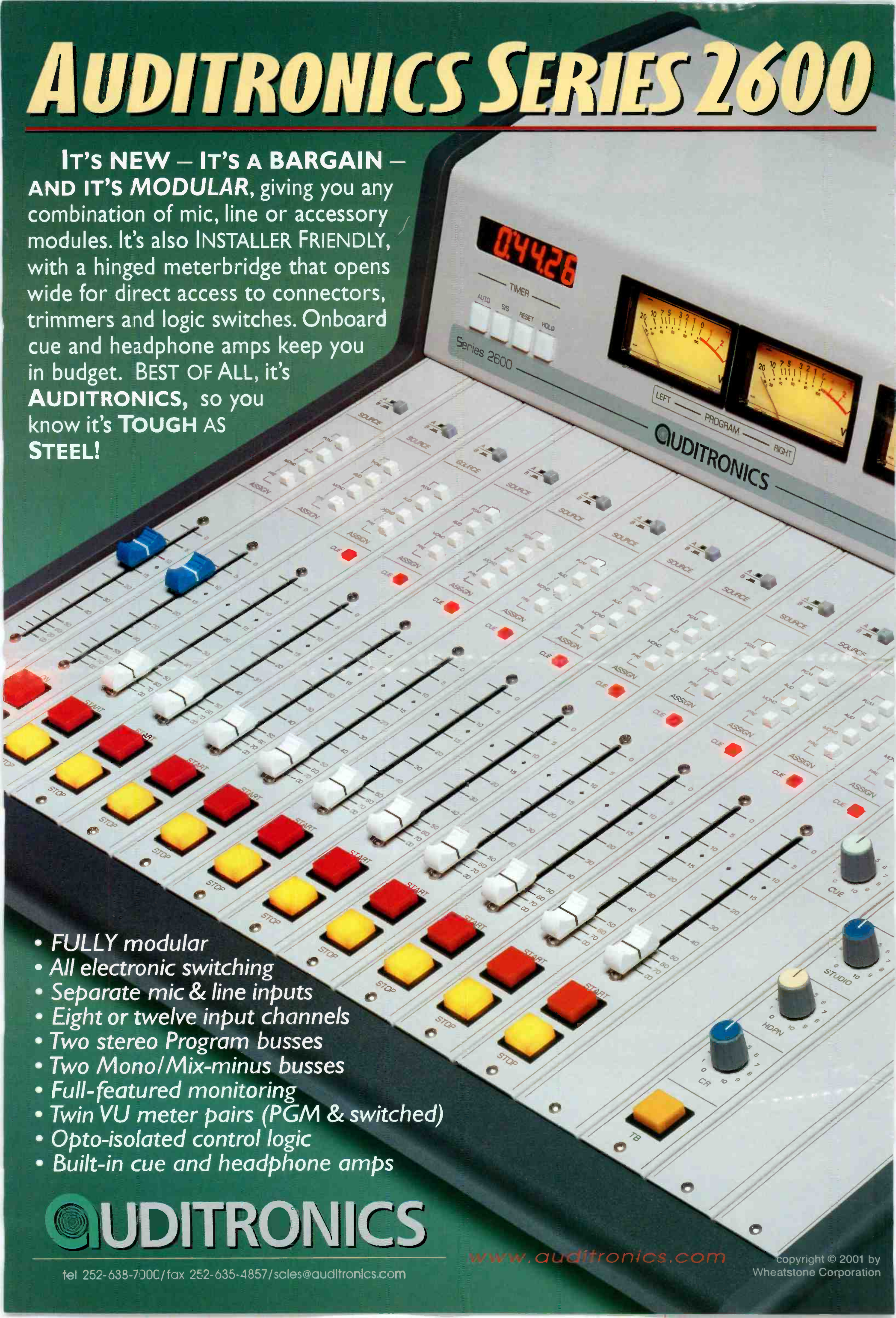
Tools and toys for radio

A PRIMEDIA Publication

A supplement to Radio Magazine

AUDITRONICS SERIES 2600

IT'S NEW – IT'S A BARGAIN – AND IT'S *MODULAR*, giving you any combination of mic, line or accessory modules. It's also INSTALLER FRIENDLY, with a hinged meterbridge that opens wide for direct access to connectors, trimmers and logic switches. Onboard cue and headphone amps keep you in budget. BEST OF ALL, it's **AUDITRONICS,** so you know it's **TOUGH** AS **STEEL!**



- *FULLY modular*
- *All electronic switching*
- *Separate mic & line inputs*
- *Eight or twelve input channels*
- *Two stereo Program busses*
- *Two Mono/Mix-minus busses*
- *Full-featured monitoring*
- *Twin VU meter pairs (PGM & switched)*
- *Opto-isolated control logic*
- *Built-in cue and headphone amps*

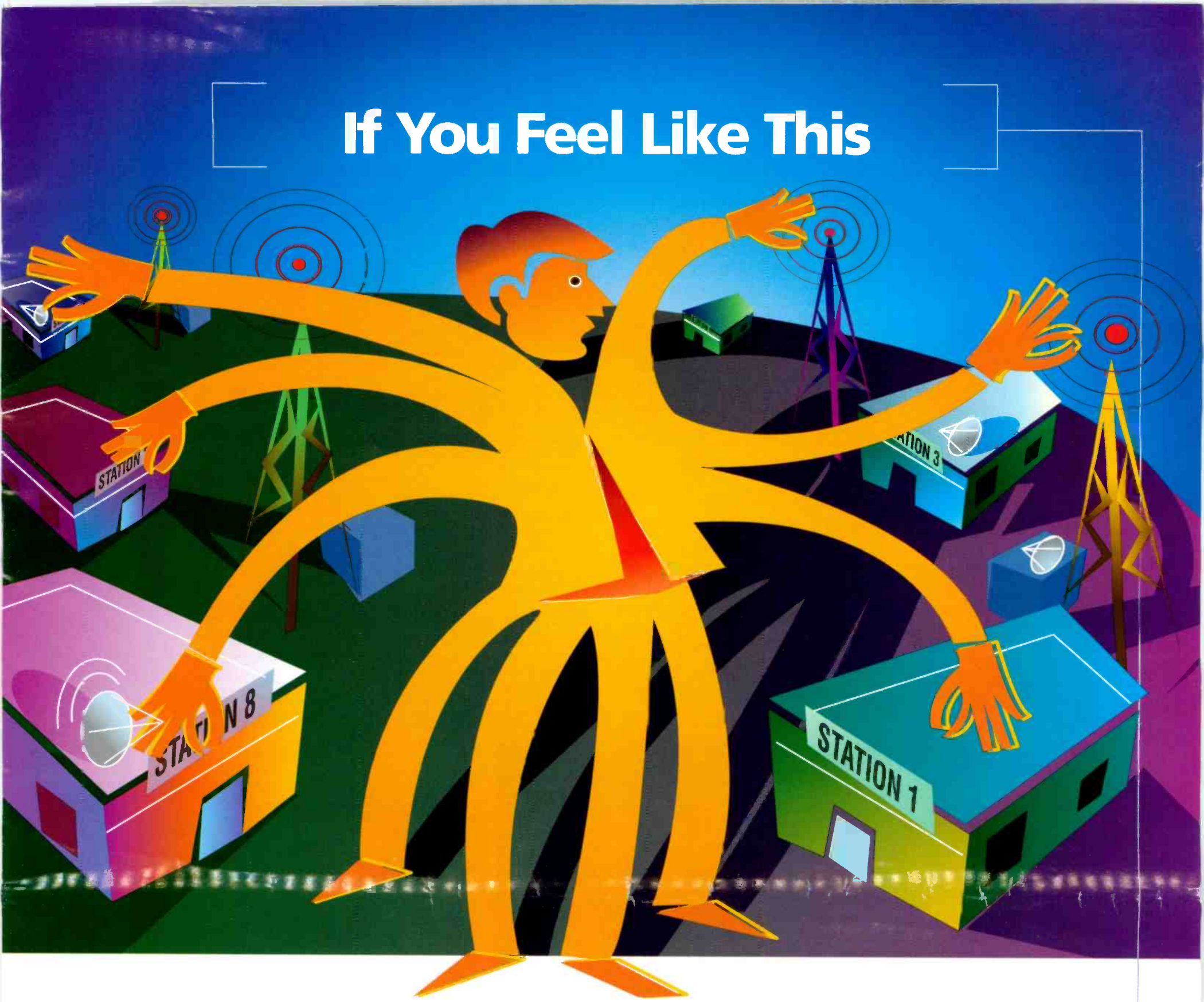
AUDITRONICS

tel 252-638-7000/fax 252-635-4857/sales@auditronics.com

www.auditronics.com

copyright © 2001 by Wheatstone Corporation

If You Feel Like This



You Need This

Looks like you've got your hands full again. Except you're running out of hands. And because you have many facilities you could use a few more legs, too.

Let Harris' Intraplex STL PLUS™ give you a hand getting your new station up and running quickly and profitably or upgrading your station to the best quality digital or-air sound available today.

STL PLUS™ gives you bi-directional program audio transport over a T1 line, fiber or microwave link. So you can interconnect your studios, offices and transmitter sites. And because it's is a digital system, you're delivering pure, crystal clear sound – regardless of the distance. Even if you're surrounded by the highest mountains or tallest buildings.

Now for the PLUS in STL PLUS™: You can also transmit LAN/WAN data, telephone, intercom, and remote control over the same digital line. All of which can rack up some pretty impressive cost savings for your inter-facility communications.

Best of all, STL PLUS™ grows with you as no one else can. It has the industry's largest assortment of plug-in modules. So you can design the perfect system for today and quickly, easily, and affordably upgrade it for tomorrow.

So, contact your Harris representative about STL PLUS™ today. You'll be a leg up on the rest.

next level solutions

SERVICE

SYSTEMS

AUTOMATION

TRANSMISSION

www.broadcast.harris.com phone: 1.800.622.0022

HARRIS

Radio™
THE RADIO TECHNOLOGY LEADER

2002 Product Source

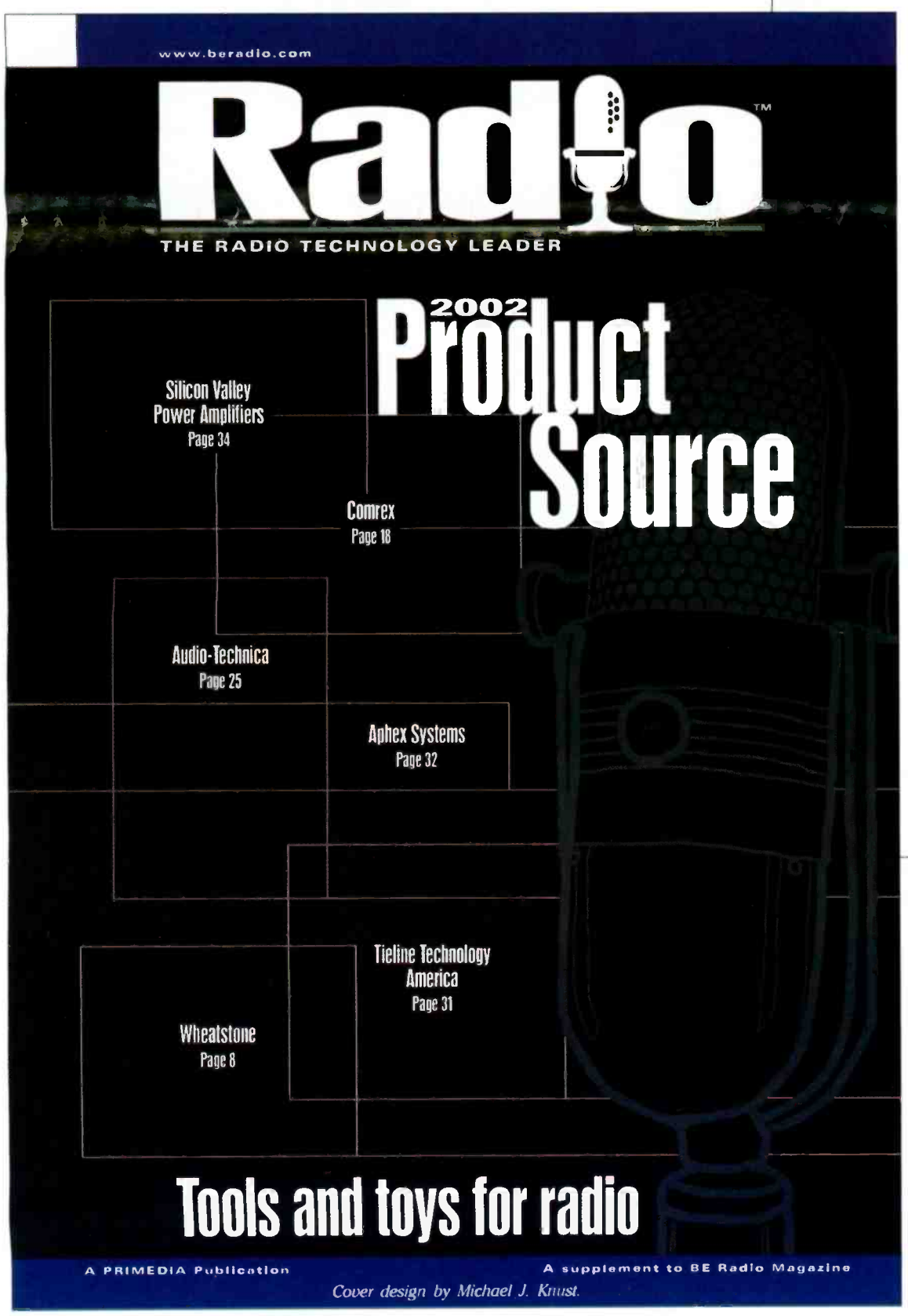
From consoles to IBOC equipment, this year's *Radio* Product Source will help its readers find the best equipment to suit their needs. The Product Source helps radio industry professionals do their jobs better by offering short product descriptions as well as contact information. It is designed to make purchasing decisions easier and therefore help stations broadcast more efficiently.

Some of the products listed debuted at NAB 2002, including the *Radio* Pick Hit award winners, and some are brand new. Keep this issue conveniently located so it can be used as a quick reference tool when product-purchasing decisions arise throughout the next year.

Whatever your station's size and budget, you are sure to find something you have been looking for within this guide. And, as always, if you have any comments or suggestions on how to improve the Product Source, please e-mail them to beradio@primediabusiness.com.

Kari Taylor

Kari Taylor, associate editor



Cover design by Michael J. Knust.

Editor–Chriss Scherer, CSRE, *cscherer@primediabusiness.com*
Technical Editor, RF–John Battison, P.E., *batcom@bright.net*
Associate Editor–Kari Taylor, *ktaylor@primediabusiness.com*
Sr. Art Director–Michael J. Knust, *mknust@primediabusiness.com*
Assoc. Art Director–Robin Morsbach, *rmorsbach@primediabusiness.com*

Technical Consultants –Harry C. Martin, *Legal*
Kevin McNamara, CNE, *Computers and Networks*
Mark Krieger, CBT, *Contract Engineering*
Russ Berger, *Broadcast Acoustics*
Donald L. Markley, P.E., *Transmission Facilities*
Yasmin Hashmi, *International Corespondent*
Stella Plumbridge, *European Corespondent*

Vice President–Peter May, *pmay@primediabusiness.com*
Publisher–Dennis Triola, *dtriola@primediabusiness.com*
Marketing Director–Christina Heil, *cheil@primediabusiness.com*
Vice President, Production–Thomas Fogarty, *tfogarty@primediabusiness.com*
Sr. Director of Production –Curt Prodes, *cprodes@primediabusiness.com*
Group Production Manager–Charlie Rosenthal, *crosenthal@primediabusiness.com*
Ad Production Coordinator–Natasha Franz, *nfranz@primediabusiness.com*
Classified Ad Coordinator–Mary Mitchell, *mmitchell@primediabusiness.com*
VP, Audience Marketing Development–Christine Oldenbrook, *coldenbrook@primediabusiness.com*
Audience Marketing Director–Wendy Liskey, *wliskey@primediabusiness.com*
Sr. Audience Marketing Manager–Gayle Grooms, *ggrooms@primediabusiness.com*

MEMBER ORGANIZATIONS
Sustaining Member of:
·Acoustical Society of America
·ARMA
·Audio Engineering Society
·Society of Broadcast Engineers
Member, American Business Media—Member, BPA International

PRIMEDIA
Business Magazines & Media
Chief Executive Officer–Timothy M. Andrews, *tandrews@primediabusiness.com*
President–Ronald Wall, *rwall@primediabuseinss.com*
Chief Operating Officer–Jack Condon, *jcondon@primediabusiness.com*
Sr. Vice President, Business Development–Eric Jacobson, *ejacobson@primediabusiness.com*
Sr. Vice President, Integrated Sales–Dan Lovinger, *dlovinger@primediabusiness.com*
Vice President, Content Licensing & Development–Andrew Elston, *aelston@primediabusiness.com*
Vice President, Marketing/Communications–Karen Garrison, *kgarrison@primediabusiness.com*
Vice President, New Media–Andy Feldman, *afeldman@primediabusiness.com*

PRIMEDIA Business-to-Business Group – 745 Fifth Ave., NY, NY 10151
President & Chief Executive Officer–David G. Ferm, *dferm@primedia.com*
Chief Creative Officer–Craig Reiss, *creiss@primedia.com*
Design Director–Alan Alpanian, *aalpanian@primediabusiness.com*

PRIMEDIA Inc.
Chairman & Chief Executive Officer–Tom Rogers, *trogers@primedia.com*
Vice Chairman & General Counsel – Beverly Chell, *bchell@primedia.com*
President–Charles McCurdy, *cmcurdy@primedia.com*

Radio, ISSN 1081-3357 is published monthly (except semi-monthly in August) and mailed free to qualified recipients by PRIMEDIA Business Magazines & Media Inc., 9800 Metcalf, Overland Park, KS 66212-2215 (primediabusiness.com). Periodicals postage paid at Shawnee Mission, KS, and additional mailing offices. Canadian Post Publications Mail Agreement No. 40597023. Current and back issues are and additional resources, including subscription request forms and an editorial calendar are available online at beradio.com.

SUBSCRIPTIONS: Non-qualified persons may subscribe at the following rates: USA and Canada, one year, $45.00. Qualified and non-qualified persons in all other countries, one year, $60.00 (surface mail), $100.00 (airmail). Subscription information: P.O. Box 12937, Overland Park, KS 66282-2937.

ARCHIVES & MICROFORM: This magazine is available for research and retrieval of selected archived articles from leading electronic databases and online search services, including Factiva, LexisNexis, and Proquest. For microform availability, contact ProQuest at 800-521-0600 or 734-761-4700, or search the Serials in Microform listings at proquest.com.

POSTMASTER: Send address changes to *Radio*, P.O. Box 12960, Overland Park, KS 66282-2960.

REPRINTS: Contact Erlene Ramsey at Wright's Reprints to purchase quality custom reprints or e-prints of articles appearing in this publication. Phone: (877) 652-5295 (ext. 106) E-mail: eramsey@wrightsreprints.com.

PHOTOCOPIES: Authorization to photocopy articles for internal corporate, personal, or instructional use may be obtained from the Copyright Clearance Center (CCC) at 978-750-8400. Obtain further information at copyright.com.

MAILING LISTS: Primedia Business makes portions of our magazine subscriber lists available to carefully selected companies that offer products and services directly related to the industries we cover. Subscribers who do not wish to receive such mailings should contact the Primedia Business subscriber services at 800-441-0294 or 913-967-1707.

CORPORATE OFFICE: Primedia Business Magazines & Media, 9800 Metcalf, Overland Park, Kansas 66212; 913-341-1300; primediabusiness.com.

Copyright 2001, PRIMEDIA Business Magazines & Media Inc. All Rights Reserved.

Sales Offices

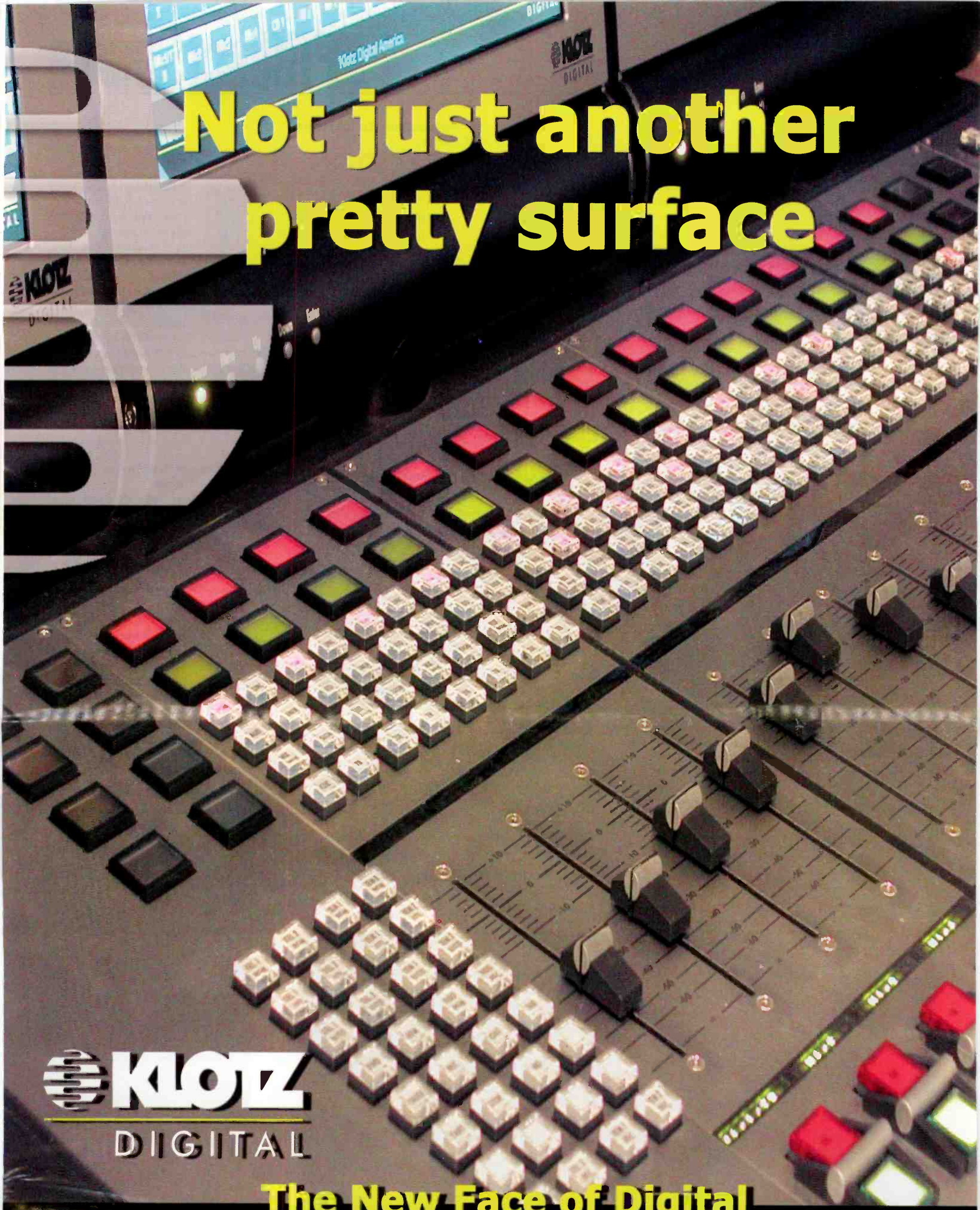
NATIONAL SALES DIRECTOR
Steven Bell
9800 Metcalf Avenue
Overland Park, KS 66212-2215
Telephone: (913) 967-1848
Fax: (913) 967-7249
E-mail:
sbell@primediabusiness.com

EUROPE/UK
Richard Woolley
P.O. Box 250
Banbury, Oxon OX16 5YJ
Telephone: +44 1295 278 407
Fax: +44 1295 278 408
E-mail:
richardwoolley@compuserve.com

CLASSIFIED ADVERTISING
Jennifer Shafer
Telephone: (800) 896-9939
(913) 967-1732
Fax: (913) 967-1735
E-mail:
jshafer@primediabusiness.com

LIST RENTAL SERVICES
Marie Briganti, Statlistics
Telephone: (203) 778-8700 x146
Fax: (203) 778-4839
E-mail: primedia@statlistics.com

EDITORIAL REPRINTS
Wright's Reprints
Telephone: (877) 652-5295, ext. 106
E-mail:
eramsey@wrightsreprints.com


Not just another
pretty surface
KLOTZ
DIGITAL
The New Face of Digital
Sure, it's nice to look at. But with over 300 VADIS D.C. II Digital Audio Broadcasting Consoles in use worldwide it must be more than just infatuation. Maybe it's our revolutionary distributed fiber optic VADIS AudioMedia Platform. Or simply an irresistible combination of brains plus looks.
5875 Peachtree Industrial Blvd., #340, Norcross, GA 30092 Tel: 678.966.9900 Fax: 678.966.9903 www.klotzdigital.com
KLOTZ DIGITAL AMERICA a division of KLOTZ DIGITAL AG, Hans-Stiessberger-Str. 2A, D-85540 Munich, Germany 011.49.89.45.672.300

POTS to ISDN codec
Telos Systems

Zephyr Xport: This codec uses a standard analog phone line to connect with any Zephyr Xstream ISDN codec. Spectral Band Replication coding delivers reproduction of voice and music. A broadcaster can use a standard analog phone line in the field to connect with the Zephyr Xstream ISDN codec in the studio. Custom DSP-based modem extracts bit-rate from real-world lines and prevents audio loss from retraining. With its built-in mixer, this product is useful for grab-and-go remotes. The DSP mixer section has mic and line inputs with selectable dynamics processing by Omnia, plus independent receive audio, headphone and monitor mix outputs. Operation is simple because it offers friendly menus for non-technical users. A built-in Web server and Ethernet port lets the user interact with this codec using a Web browser on a laptop.

216-241-7225; fax 216-241-4103; www.telos-systems.com; info@telos-systems.com

RF components listings
RF Parts

Online catalog: A worldwide distributor for 34 years, RF Parts has released an expansion of its online catalog at www.rfparts.com. The catalog provides an efficient listing of product information, product applications and product ordering with the company's secure ordering system. The catalog lists a complete line of power tubes for broadcast, industrial and communications, including Eimac, Amperex, Taylor, Svetlana, RFP and Econco brands along with a full range of sockets through 20kW. In addition, the company stocks a large inventory of popular and hard-to-find RF transistors and power modules from Motorola, Toshiba, MA/COM, Mitsubishi and Microsemi. High-voltage doorknob capacitors and rectifiers are also available.

800-737-2787; fax 760-744-1943; www.rfparts.com; rfp@rfparts.com

Spot distribution system
Slingspot.com

Audio Delivery Network: A method of moving radio commercials and audio clips, this service brings recording studios, advertising agencies, radio stations and clients together to reduce the workload of spot distribution and trafficing. The company allows recording studios, duplication facilities and advertising agencies to send radio spots quickly to hundreds of radio stations across North America. It was developed to accommodate all aspects of spot distribution including integrated scheduling, dual notification, proof of delivery and archiving. Users create a package, choose the recipients, attach the creative work and traffic, then pass the package to Slingspot.com for delivery.

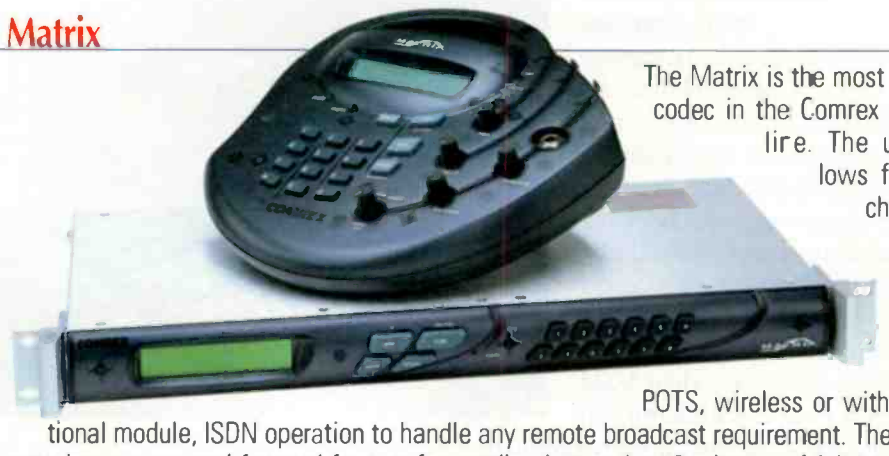
877-708-SPOT; fax 416-778-9799
www.slingspot.com; info@slingspot.com

AM antenna systems
Nott Ltd.

Folded unipole antenna: One of the advantages claimed for the folded unipole is its broad bandwidth. Another advantage of the folded unipole is that it can provide a higher value of resistance than a conventional series-fed antenna when the antenna must be electrically short, i.e., less than one-quarter wavelength (90 degrees) in height. For antennas around 60 degrees in height, an adequate resistance can be obtained with a unipole, but the bandwidth is usually narrow. There are modifications that can be applied to broaden it, but it is normally not ideal.

800-443-0966; fax 505-325-1142
www.nottltd.com; ron@nottltd.com

Matrix



The Matrix is the most flexible codec in the Comrex product line. The unit allows for your choice of POTS, wireless or with an optional module, ISDN operation to handle any remote broadcast requirement. The Matrix even has a store and forward feature for sending just under 10 minutes of full bandwidth audio over any circuit in non-real time—a very useful back up tool! Two mic inputs (one is switchable to line level), one headphone output and one line level output let you plug microphones and headsets in directly or hook up to a mixer. And as new circuits become viable for live audio transmission, the Matrix, with its modular design and field upgradeability has the potential to make obsolescence obsolete!

Nexus

The Nexus makes ISDN remote broadcasts simple! Using Turbo G.722 at 128kb/s this low-cost codec provides 15kHz two-way mono audio over ISDN with only a 6ms delay making it ideal for interviews, remote talk show hosts and news, weather or traffic delivery. When set to 56 or 64kb/s the Nexus will utilize the G.722 algorithm, making the unit compatible with all other manufacturers' ISDN codecs that use this industry standard coding scheme. An ancillary data channel allows for computer communications, such as call screening, during a broadcast. The Nexus can even store multiple ISDN line configurations, so if you travel to different venues with the unit you don't have to reprogram it at each location. Available in portable and rackmount versions.

BlueBox

The BlueBox is a low cost codec for high-quality POTS or wireless remote broadcasts. This portable unit weighs only 1.5lbs.

and is compatible with all other Comrex POTS codecs. One mic/line switchable input, one headphone output and one line level output complete the affordable BlueBox package. Take advantage of free product upgrades by downloading them from our website. The BlueBox makes it easy to cover late breaking news stories, interviews and sporting events!

Vector

The portable Vector has everything you need to broadcast on POTS lines, including a full featured mixer! The Vector delivers 15kHz, full duplex audio over

one plain telephone line. The unit has four mic inputs (3 & 4 are switchable to line level), three headphone outputs and one line level output to feed a PA system or recorder. Travel light and sound great at your next POTS broadcast!

Last-minute remotes?

No stress for John Kennedy of Entercom Boston.

The Patriots win the Superbowl! A major cause for celebration in Boston. And potentially major stress for John Kennedy, Engineering Director for Entercom Boston. With no advance warning, John had less than 24 hours to orchestrate coverage of the festivities on numerous stations — including live remotes along the Patriots' parade route. Fortunately, John knew he could count on Comrex Matrix to deliver — even last-minute. With Comrex in your toolbox, last-minute remotes are successful, not stressful.

"We delivered multiple high-quality live remotes over ordinary phone lines and we didn't lose a minute."

John Kennedy,
Engineering Director,
Entercom Boston

Let us help with your last-minute remotes. And we'll give you the shirt off our back.

Now you'll not only sound great, you'll look great, too. Mail us the warranty card from the purchase of your next BlueBox, Matrix, Vector or Nexus. We'll send you a handsome Comrex shirt like the one John is wearing (retail value $65) FREE. Plus, we'll extend your warranty to two years. How's that for coverage?

For a dealer call: 800-237-1776
Or visit www.comrex.com

COMREX
19 Pine Road, Devens, MA 01432 USA
978-784-1776 • Fax: 978-784-1717 • Email: info@comrex.com

Visit Us at NAB Radio Show Booth #526.

Core and stand-alone tools

Prophet Systems

Automation enhancements: The company's stand-alone products provide new tools for any station, regardless of what automation system they use. Remote Buddy is a portable system that can be used by any station looking for a way to draw people to its next remote. Events can be enhanced with sound effects, lighting and video. Musicgen, the company's music scheduler is now available to own or lease. Musicgen integrates directly to any digital automation system. Nexgen Digital is designed to meet the complex needs of today's broadcasters through high levels of system redundancy and connectivity, as well as database fault tolerance capabilities. The system is engineered to anticipate future growth. The entry-level product, Nexgen Digital NS, allows users to select only the features that meet particular needs and budget size.

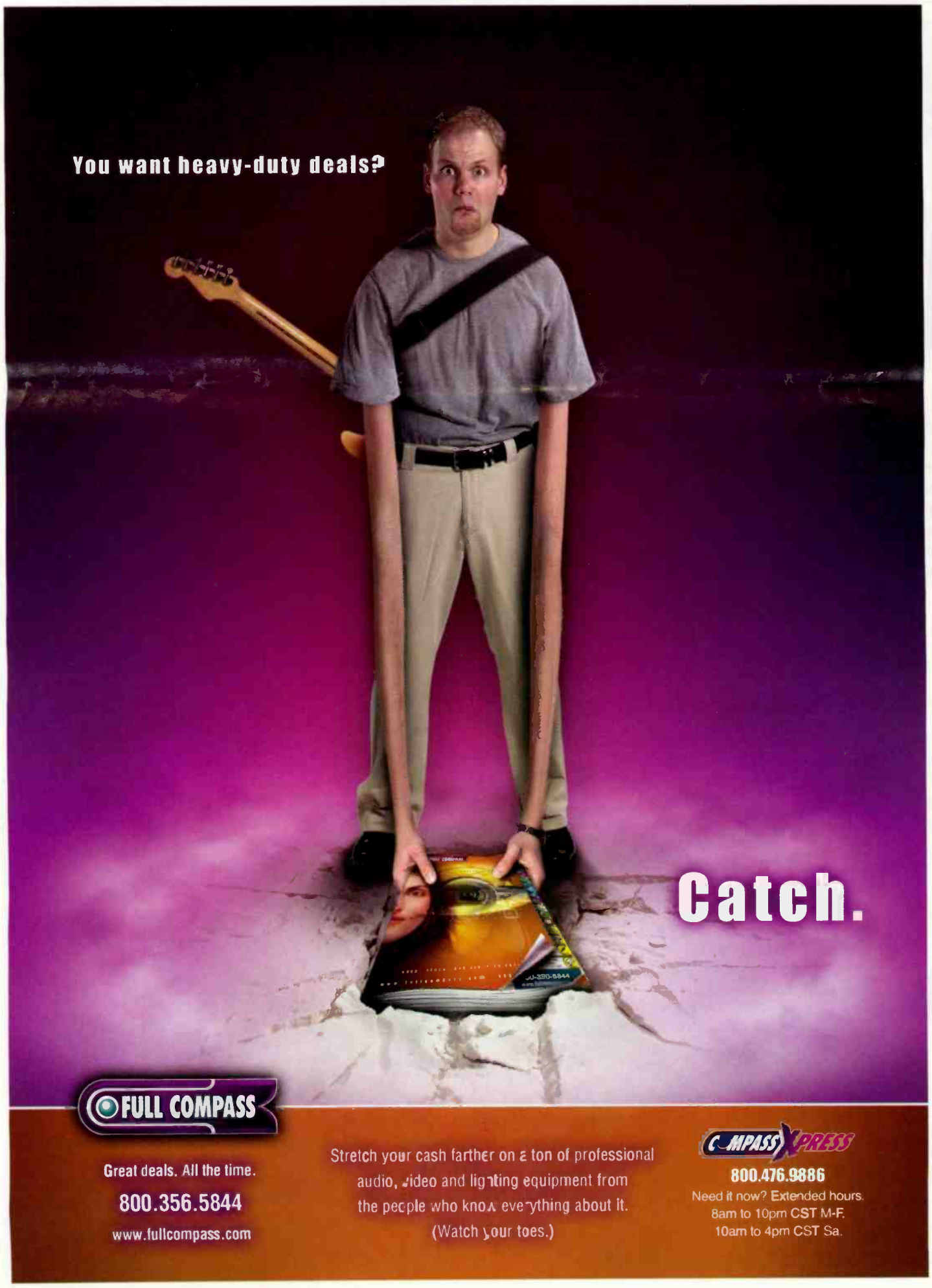
800-658-4403; fax 308-284-4181; www.prophetsys.com; sales@prophetsys.com

On-air console

Wheatstone

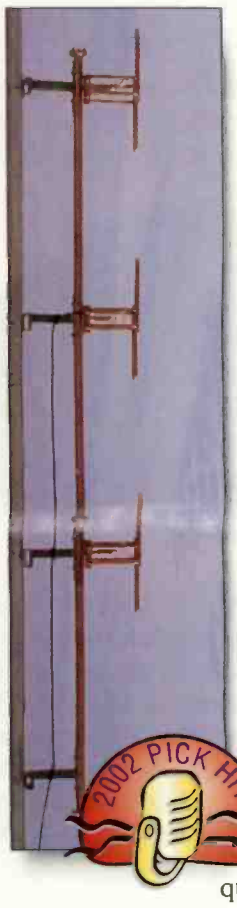
D-8000: The new digital flagship of the D-Series console line, the modular D-8000 ranges across multiple format needs with flexible configurations, frame sizes and metering types. Available features include universal input modules (accepting analog and digital signals), Wheatstone's exclusive Bus-Minus function providing an independent MXM feed with talkback interrupt on every input channel, alpha-numeric source displays, choice of master clock rates, two programmable stereo aux sends per input, 99 preset snapshots and individual channel four-band equalization, compression, gating and digital level trim. New mainframe design elements include a stainless steel meterbridge, wristrest, composite fused-finish endcaps and a low profile frame. Built-in serial communication interfaces with Wheatstone network router and many automation systems.

252-638-7000; fax 252-637-1285; www.wheatstone.com; sales@wheatstone.com



IBOC/analog antenna

Shively Labs



IAD-FM 6813: A cost-effective solution for low power IBOC conversion aimed at Class A and similar power stations, this antenna produces a digital IBOC signal using a separate antenna, but without requiring additional aperture. Does not require a 10dB coupler to inject signal onto the analog as is done with high-level combining. This means the 90 percent loss to the digital signal and the 10 percent loss to the analog signal is avoided. This antenna requires no additional tower space because the unit allows the digital antenna to be mounted directly to the feedline of the existing full wave spaced antenna. Will not affect the tuning of the existing analog antenna.

888 SHIVELY; fax 207-647-8273
www.shively.com; sales@shively.com

Standard and custom models

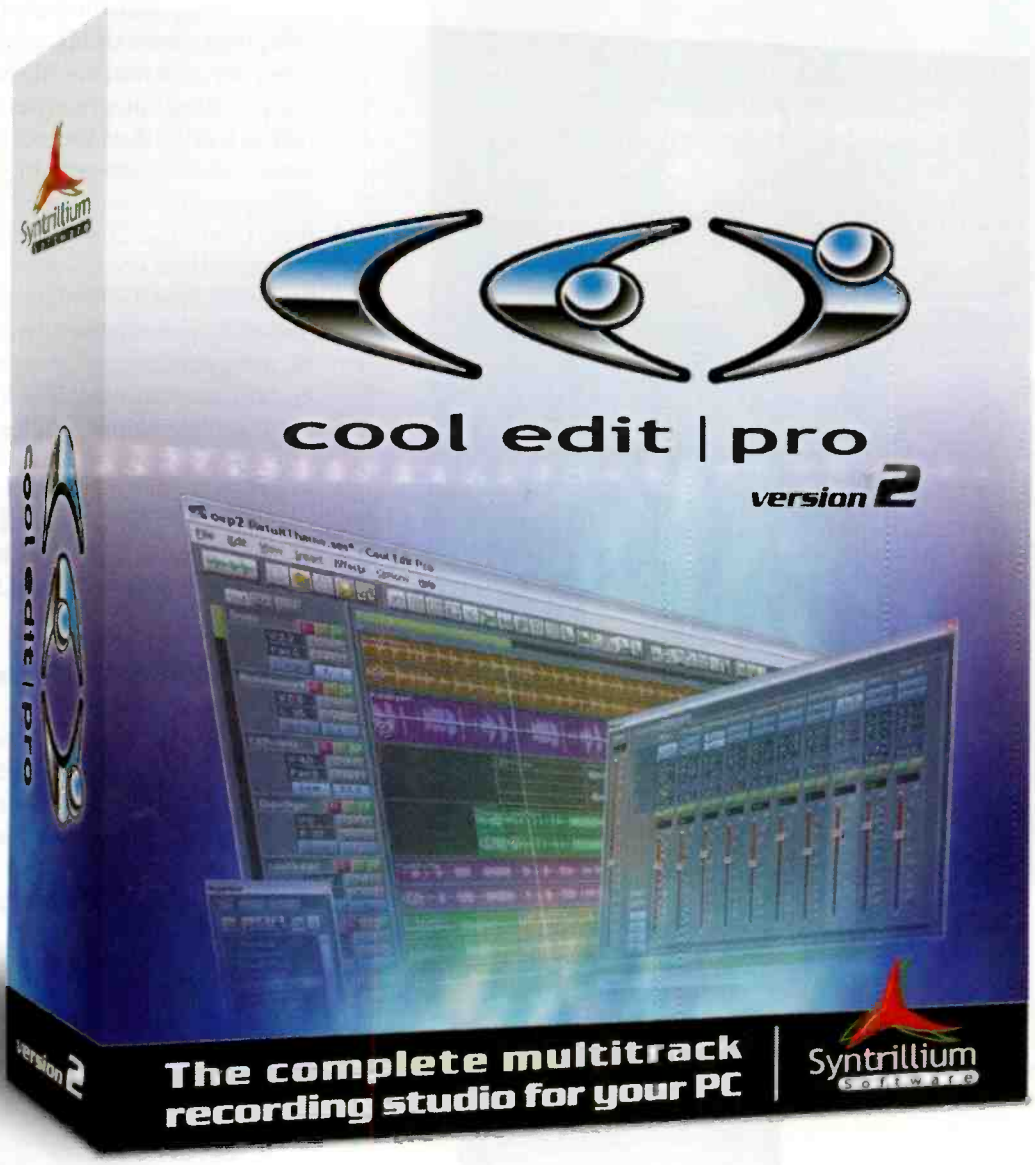
Ten-Tec

Project Enclosures: The standard enclosure line includes project and hobby cases in a variety of styles and configurations, from basic boxes to slanted control surfaces to rack-mount cases. A complete catalog of choices is available. The custom enclosure line offers custom sheet-metal cases designed to fit smaller budgets. First-time customers can receive a complimentary sample of the final design before production begins. Custom products are available primarily in aluminum and steel with a thickness ranging from 0.040 inches to 0.125 inches. The company's largest 22-ton punch press can handle aluminum or steel up to 1/4 inch thick. All products are designed, manufactured and distributed from our 40,000-square-foot facility located in the foothills of the Great Smoky Mountains.

865-453-7172; fax 865-428-4483
www.tentec.com; enc@tentec.com

Introducing

cool edit | pro 2.0



- 128 stereo tracks
- Powerful integrated wave editor with mastering, analysis, and restoration tools
- More than 45 DSP effects and tools
- 32-bit processing
- 24-bit/192kHz and higher sampling rates
- Real-time effects and EQ in multitrack
- DirectX plug-in support
- Scripting and batch processing
- MIDI and video playback support
- Loop-based song creation, including session tempo and key matching
- Access to thousands of free loops and beds from Loopology.com

loopology.com

At only $249, there's a miracle waiting to happen inside every PC.

More powerful than ever, Cool Edit Pro version 2 is packed with the latest and greatest features that the digital audio industry has to offer, yet it retains the ease of use that has won the favor of a growing community of users worldwide. With enough professional effects and tools to fill a room full of effects racks, Cool Edit Pro has all you'll ever need for recording, editing, and mixing up to 128 high-quality stereo tracks with just about any sound card. Sure, you could pay more for a recording studio, but why on Earth would you ever want to?

Download your copy today from www.cooledit.com.

Syntrillium Software

P.O. Box 62255 | Phoenix, AZ 85082 USA | 1.888.941.7100 | tel: +1.480.941.4327 | fax: +1.480.941.8170 | sales@syntrillium.com | www.syntrillium.com
toll-free sales, USA and Canada

Computer hard drive pullout
Mager Systems

Computer Pull out: This computer hard-drive pullout sits in a carriage that completely pulls out of the cabinet, can sit under a top and rotates 180 degrees to give total access to the computer wiring. The cabinet is insulated with sound acoustic treatment, baffling and ventilation.

623-780-0045; fax 623-780-9860; www.magersystems.com; mager@magersystems.com

Digital AM monitor
Belar

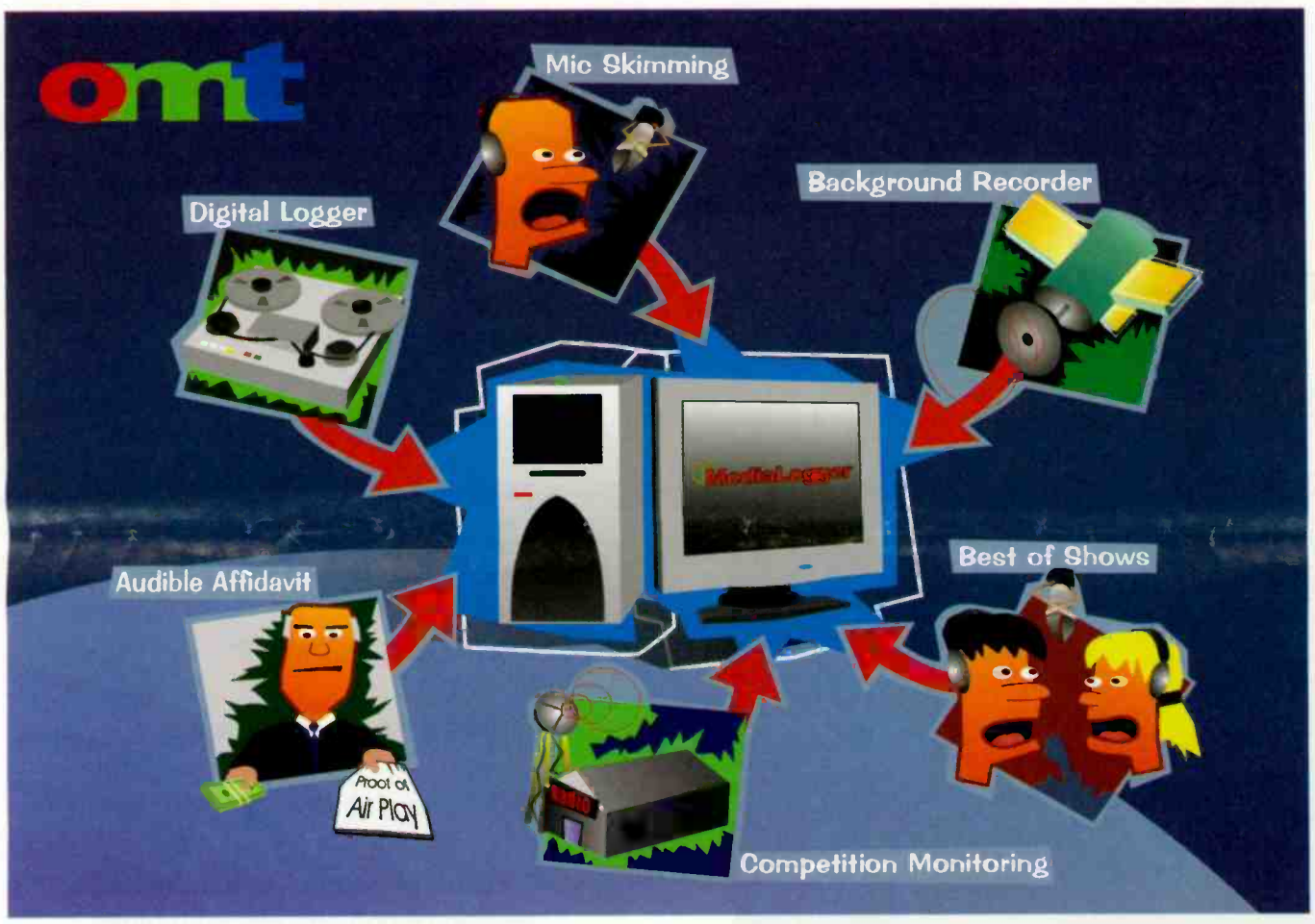
AMMA-2: This addition to Belar's line of Wizard broadcast monitors offers full PC-based remote indication and control. Special metering algorithms set at the front panel allow the AMMA-2 to monitor conventional AM or controlled-carrier transmissions with accuracy. The DSP-based monitor operates in the medium and short-wave bands with harmonic and IM distortion residual effects below 0.1 percent at all carrier frequencies and modulation levels of as much as 99 percent.

610-687-5550; fax 610-687-2686; www.belar.com; sales@belar.com

Digital audio console
Klotz Digital

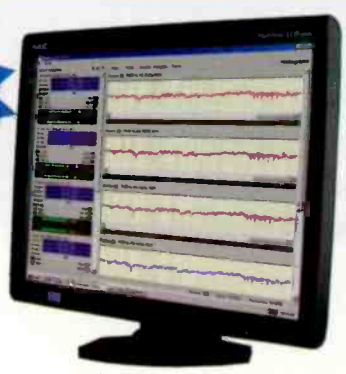
Paradigm 16: The console includes voice processing on all mic inputs; sample-rate converters and machine control on all line inputs; mode, pan and phase reverse on all inputs; 12 faders with A/B switching and four faders with analog/digital six-source selectors. The LCD flat panel screens display a large clock and an event timer. The screens double as a password-protected, central control for console set up. The console accepts 48 sources and has digital and analog outputs. The console layout can be configured, saved and retrieved for each operator. This product also has familiar in-hand controls and a transparent mix-minus operation. Buses are PGM, AUX, TEL1, TEL2 and PFL (cue) with cue speaker, headphones and CR and studio monitor outputs. Talkbalk to TEL1, TEL2 and studio is standard.

678-966-9900; fax 678-966-9903; www.klotzdigital.com; sales@klotzdigital.com



iMediaLogger

From $695



(ī-mē'dē-d-ə lô'gər) *definition:* The most complete, affordable, and easy-to-use automated audio recording solution available.

iMediaLogger frees you from the costly maintenance of conventional and outdated equipment used for logging, recording, and skimming including reel to reel, DAT, and VCR recorders with a single computer workstation.

Used in hundreds of stations including all of the top 10 markets, this award-winning product allows you to:

- simultaneously record up to 16 stereo or mono audio sources or streams using multiple bandwidth and compression formats - MP2, MP3, Windows Media Audio, Real Audio, PCM, and ADPCM
- access your recordings anytime, from anywhere using its built in web browser interface
- schedule time or closure based recordings
- remotely configure and manage your iMediaLogger system

The next time you need to log, skim, or record, save yourself -and your station- plenty of time, money and headaches. With iMediaLogger, you will never have to change a tape again.

THE NAB RADIO SHOW Booth #1019

To learn more about iMediaLogger, visit www.omt.net or call 1-888-665-0501

Jingle box
Arrakis

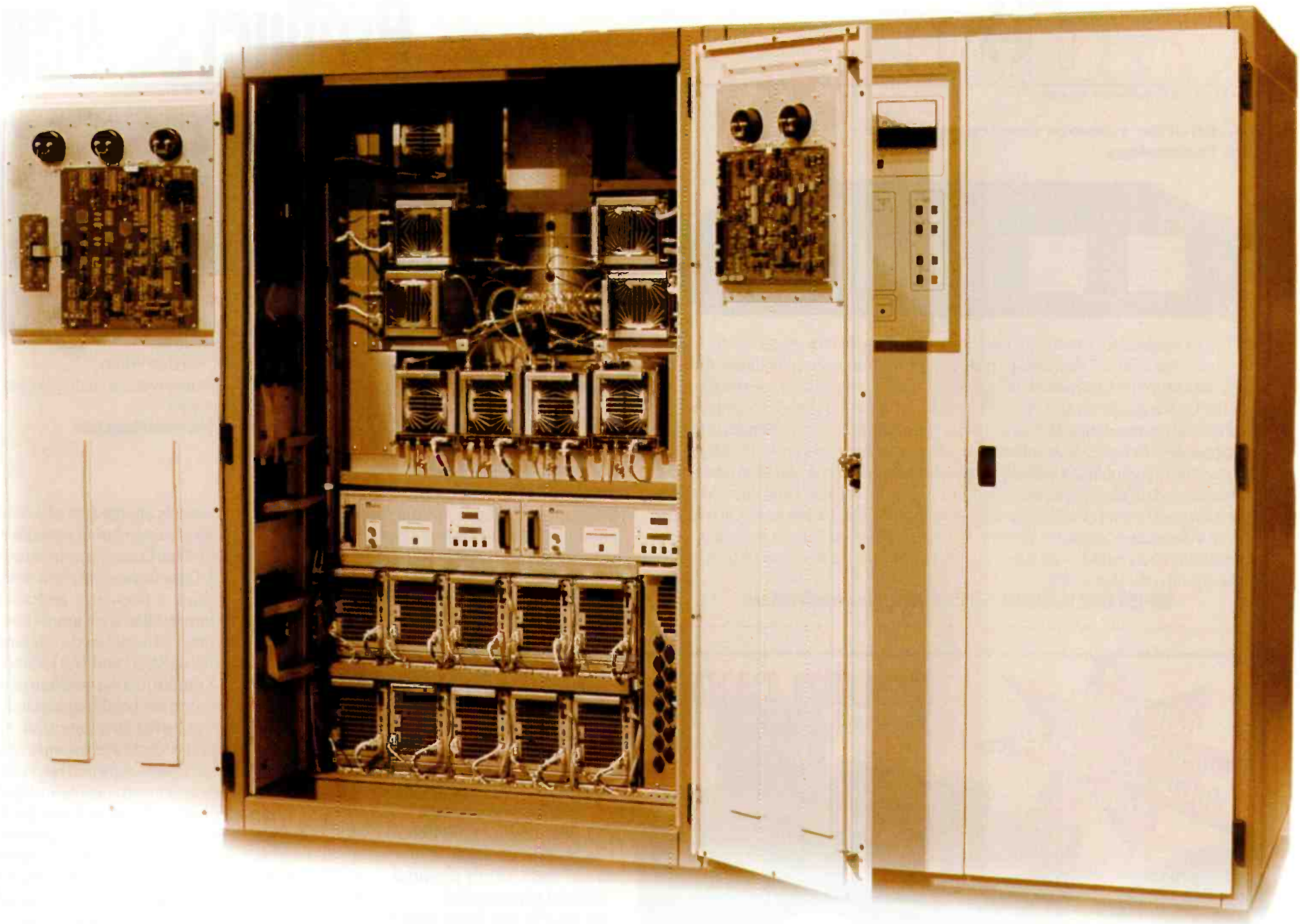
Instant 3Play: With the Instant 3play DL4-3Play-users can record a jingle, bed, liner or other file once into the DL4 workstation and play it back in as many as three places before it is finished recording. The DL4 workstation is a two-rack, high broadcast appliance that records and plays audio from hard disk. The DL4 contains four serial ports for control from as many as three Windows 95/98/NT computers. The Instant 3play software runs on these PCs allowing as many as three studios to play audio at the same time. The Instant 3play will also play multiple jingles at the same time in one studio. Control is via touch monitor, mouse or keyboard.

970-461-0730; fax 970-663-1010
www.arrakis-systems.com
sales@arrakis-systems.com

POTS/ISDN/PCS Codec
Comrex

Matrix: As a plain telephone codec, the Matrix delivers 15kHz full duplex audio on one standard telephone line. An optional slide-in module allows the Matrix to operate on ISDN using Layer III or G.722. The codec is also capable of improving the quality of GSM wireless phone feeds. The data port on the codec enables direct connection of a GSM phone without the need for a module. Another option is a NiMH battery that can power the unit for as long as seven hours. Completing the Matrix package are two mic inputs (one is switchable to line level), one headphone output and one line level output for connection to microphones and headphones or a mixer. An additional -10dBu input is available for a minidisc or DAT player.

800-237-1776; fax 978-784-1717
www.comrex.com; info@comrex.com



40,000 Watts
Solid State FM Power.

The Nautel Q20/20 comprises two 20 kW stand-alone FM transmitters fully integrated to operate as a 40 kW active reserve transmitter system.
For more than 30 years Nautel has built the best radio transmitters by blending solid state technology and innovative engineering design.
The Q20/20 provides reliability and peace of mind through built-in redundancies — in all the world you won't find its equal.

Each Q20 features:

- redundant Power Amplifiers
- redundant Power Supplies
- dual Digital Exciters
- dual IPA & Power Supply
- dual Low Voltage Power Supplies
- 68% overall efficiency

nautel

Simply the best engineered transmitters

Contact Nautel for more information about the benefits of our full range of solid state FM and AM transmitters.

Nautel Limited, Hackett's Cove, RR #1 Tantallon, Nova Scotia Canada B0J 3J0 Phone: (902) 823 2233 Fax: (902) 823 3183 Certified ISO 9001
Nautel Maine Inc., 201 Target Industrial Circle, Bangor, Maine USA 04401 Phone: (207) 947 8200 Fax: (207) 947 3693 Certified ISO 9002
E-mail: info@nautel.com or visit us on the Web at www.nautel.com

Transmitter remote control system
Burk Technology

ARC Plus: Designed for expansion, each independent ARC Plus group can include as many as 16 sites with 256 channels per site. Use the optional Autopilot Plus software to connect a computer to hundreds of sites. View meter readings or graphs on the large, bright VFD, changing sites and channels quickly with the jog wheel. For commands, switches display user-defined labels for each channel on the buttons. Status is displayed on mappable tri-color LEDs. Autoload Plus software is used to set up and configure the ARC Plus from a computer. All user-accessible labels, limits and configuration information can be entered on the PC and uploaded to any connected site. Download ARC Plus images for easy backup. Built-in macros allow the ARC Plus to take corrective actions without a dedicated computer. With the optional Enhanced Speech Interface, a user can monitor and control from anywhere by telephone. As many as 16 sites can be accessed with one phone call.

800-255-8090; fax 978-486-0081; www.burk.com; control@burk.com

IBOC exciter
Harris

Dexstar: This exciter provides linear performance for mask-compliant IBOC coverage. At every stage (up-conversion, RF and audio inputs/outputs, user ergonomics and remote control interface) this product offers features for added functionality and simplicity. The exciter and transmitters are useful when a transmitter needs to be replaced but the broadcaster isn't ready to initiate IBOC service. When operating the common amplification analog/IBOC transmitter with an analog exciter, simply add an IBOC exciter and audio processing in the future.

800-622-0022; fax 513-459-3890; www.harris.com; broadcast@harris.com

Studio monitors
Tannoy

Ellipse 8 and Ellipse 10: The Ellipse 8 and Ellipse 10 models are the first of a new generation of monitors featuring wideband technology and offering reference monitoring in the modern studio. Ellipse 8 is based on an eight-inch Dual Concentric drive unit with Supertweeter, while the Ellipse 10 uses a 10-inch Dual Concentric unit with Supertweeter. Both monitors are active designs and have a frequency response extending beyond 40kHz for more effective monitoring of wideband program material such as SACD and DVD-Audio. The result is a more natural transient performance and a more solid imaging capability, which is particularly important in multichannel production environments. The cabinet enclosures are non-resonant acoustically and mechanically, and feature a suede two-tone paint finish. Each system's 90-degree horizontal dispersion affords a wide sweet spot for practical working across the length of the console, while extensive variable and fixed equalization features allow the user to achieve ruler flat frequency response. Discrete MOSFET power amplifiers provide power with low noise and distortion.

877-342-4TGI
fax 519-426-4TGI
www.tannoy.com; litplease@tgina.com

Call Today, before $5,995* Introductory Price Expires!

SOUND CHOICE FURNITURE
High quality stock studio furniture from the manufacturers of The Best Custom Studio Furniture

Introducing "Sound Choice Furniture," new from Mager Systems, Inc., the manufacturer of The Best in Sound Furniture. Sound Choice Furniture is high quality Stock studio furniture, featuring the same high quality construction methods and materials found in Mager Systems, Inc. custom furniture. All "Sound Choice Furniture" includes solid surface countertops. The standard color is stormy gray for the solid surface top and a medium speckled gray on the cabinets (see photos). Call today to see how Sound Choice Furniture will benefit your studio.

Starting as low as $3,295

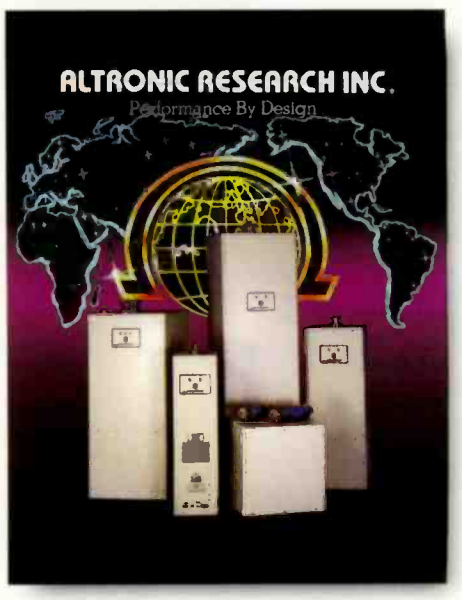
*As shown, excluding Console & Guest Top

Winner NAB 2002 2002 PICK HIT Radio BE Radio Magazine

Sound Choice Furniture offer these Fine Standard Features:
- Solid Surface Tops
- 1-½" thick 19-ply plywood cabinet construction
- 13-ply Finland Birch access panels
- No Particle Board or melamine
- 10-year Limited Warranty
- Reversible Punch Block cabinet
- Modular - Many Configurations, add-ons and colors available
- Built in ventilation
- Fast Installation - No cabinet assembly

MAGER SYSTEMS, INC.
The Best in Sound Furniture
TEL: 623-780-0045 • FAX: 623-780-9860
www.magersystems.com • mager@magersystems.com
Visit our website for more information

RF terminations
Altronic Research



Coaxial load resisters: A designer and developer of coaxial load resistors, this company produces water-cooled coaxial load resistors and air-cooled coaxial loads. Its sister company, Power Film Systems, manufactures Altronic's resistors. Manufacturing processes are closely controlled and are ISO 9000 compliant. The company's business philosophy is total quality management, from performance monitoring to strategic planning and results measurement.

800-482-5623; fax 870-449-6000
www.altronic.com

Remotetools
BROADCAST tools INC.
Innovative Problem Solving Tools for Broadcast
Our flexible line of remote access and control equipment gives you elegantly functional solutions for your control equipment without the need for "custom boxes".

DC-8 Plus Dial-Up Remote Control
Controls and monitors 8 external devices from any touch-tone telephone with extremely flexible programmable features.

MC-16 Telephone Hybrid/Coupler
Full-featured telephone line coupler/hybrid provides 32 programs; 32 ASCII strings (DTMF to ASCII); 64 macros; 16 relays; auto answer; 4-digit access codes and more.

SRC-1616L Serial Remote Control
Equipped with 16 opto-isolated and CMOS/TTL compatible inputs and 16-Relay (Form C) outputs that may be controlled from a host computer or a pair of units can be used in a stand-alone confutation (relay extension cord).

PSC Programmable Schedule Controller
Stores and controls up to 160 events with Hour/Minutes/Seconds, Day/Month/Year, or Day of Week with Daylight Savings Time correction. 20 SPST relays and/or 32 serial custom commands provided.

PSC-II Programmable Schedule Controller
Intended for controlling up to two RS-232/RS-422 serial devices; 16 - SPDT relays; auxiliary serial ports and relays all in a single rack space. The PSC II controls functions by either scheduled time and date, time and day of week, serial port commands and remote input contact closures.

SRC-32 Serial Remote Control
Equipped with 32 opto-isolated and CMOS/TTL compatible inputs, 16 open-collector outputs and 8-Relay (Form C) outputs that may be controlled from a host computer or a pair of units may be used in a stand-alone configuration (relay extension cord).

SRC-8 Serial Remote Control
The SRC-8 provides a means of adding 8 channels of remote control to RF, wireline, and fiber type STL systems and may also be used with dedicated modems (full and half duplex models).

UI-411 Universal Interface
Perfect for adding logic functions to mechanical switches/relays, adding remote functions to transmitter control/logic, detecting phone line "ring", etc.

AVR-8 Alarm Voice Response
Used as a voice response and remote control system, the AVR-8 automatically reports changes detected on any of its eight digital inputs to a remote telephone and/or pager.

SSM Smart Silence Monitor
Monitors any stereo or two independent monaural sources and generates alarms indicating loss of carrier when white noise and/or silence is detected.

BOR-4 (Box 'O Relays)
The BOR - 4 provides four independent 2PDT relay interfaces with two optically isolated or 5-volt TTL/CMOS compatible inputs.

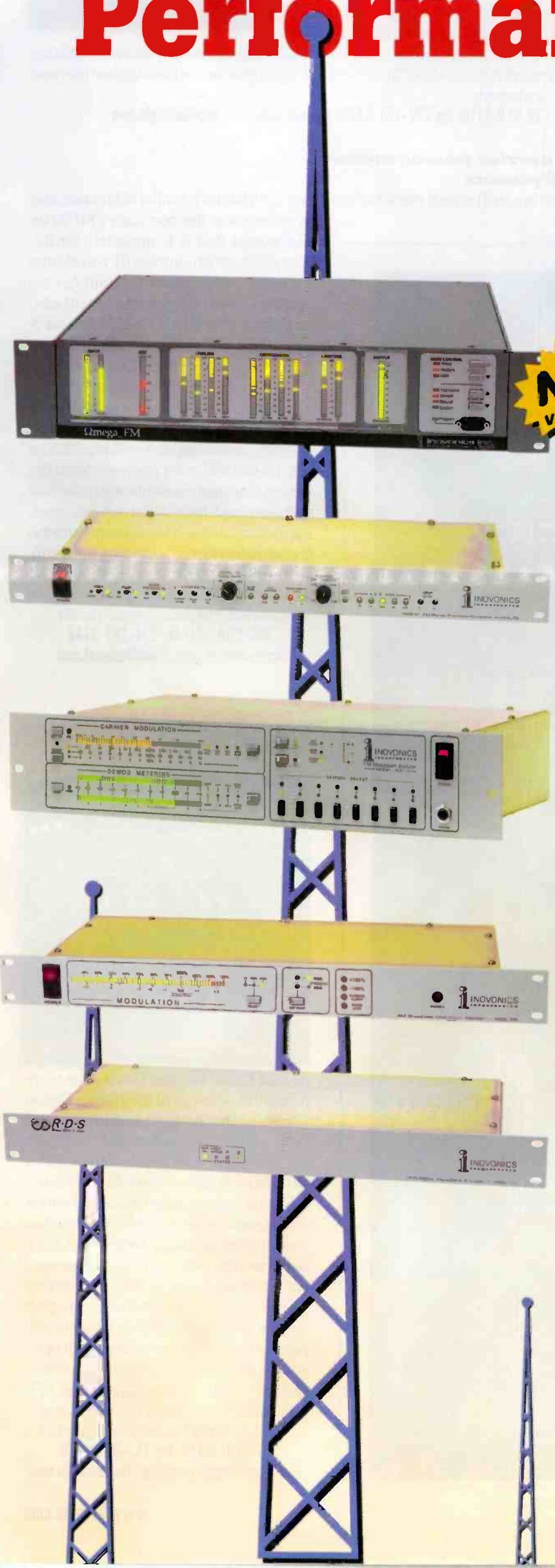
DC-8 Plus · MC-16 · PSC-II · SRC-8 · SRC-1616L · SRC-32 · UI-411 · AVR-8 · SSM · BOR-4 · PSC

Check out our web site for product information, list pricing, and distributor locations!
web: www.broadcasttools.com • email: support@broadcasttools.com • phn: 360 854 9559

No Tradeoffs
No Risks

Only Top Performance...

...at a cost savings means real value in any broadcast market. But don't take our word for it or let our 25-plus years in the business cloud the issue. Try these or any of our first-quality products at your station at no risk with our no-fault, 30-day return policy.



OMEGA_FM DIGITAL PROCESSOR/GENERATOR

A fully-digital processor/stereo-gen without DSP chips! Our uncomplicated software-based design gives a big, bright and clean sound. A short signal path keeps latency low and your audio fresh and grunge-free.

"DAVID-II" FM PROCESSOR/STEREO-GEN

Famous the world over for a competitive, clean sound at a budget price. PWM processing and digital-synthesis coding guarantee great specs, easy setup and trouble-free operation.

FM MOD-MONITOR WITH PRESELECTOR

Accurate off-air modulation measurement with an easy-to-read display, 8 station presets, multipath metering and remote alarms. A companion subcarrier monitor/demod measures RDS, SCA and high-speed data.

OFF-AIR AM MOD-MONITOR

Features a built-in tunable preselector, two sets of peak flashers, program- and carrier-loss alarms and an RS-232 interface. An active outdoor antenna is optionally available.

RDS/RBDS ENCODERS/DECODERS

Interactive encoder (shown) works with hard-disk automation to transmit song titles, contests and advertising. We make a low-cost "mini encoder" too, and a full-function RDS/RBDS decoder/reader.

Inovonics, Inc.

1305 Fair Avenue • Santa Cruz, CA 95060
TEL: (831) 458-0552 • FAX: (831) 458-0554
www.inovon.com

NTP Time Servers
ESE

E-104,E-289,E-299,E911: This line of network time protocol time servers (NTP) provides a method of putting accurate time information onto a network. The four NTP time servers provide accurate and synchronized time throughout a network. The concept is as simple as plugging the server into the network, configuring the server and allowing any client on the network to request time from the time server. Equipped with an internal GPS receiver as its time reference, it provides the user with a source of Stratum 1 accuracy. ES-289, ES-299 and ES-911/NTP receive their time reference from external sources of time code. These servers are time-code translators, each receiving time code and outputting NTP. The ES-289 accepts SMPTE/EBU time code or Time Code while the ES-299 references IRIG (A, B or E), NASA 36, XR3 or 2137 time code (AM or TTL). ES-911/NTP accepts ASCII time code in any of the formats that follow: NENA (Format 0, 1 or 2), ESE (Format A) or NMEA 0183.

310-322-2136; fax 310-322-8127; www.ese-web.com; ESE@ese-web.com

LED tower beacon
Dialight

L864: The first LED-based flashing red beacon for marking towers and other FAA obstacles, this lamp meets all FAA, Transport Canada and ICAO requirements. Designed primarily as a replacement unit for 300mm incandescent red flashing beacons in existing installations, the L864 flashing red beacon mounts to standard bolt patterns and requires no additional wiring, controllers or monitors. It uses high-flux LEDs and uses 90 percent less energy than standard incandescent beacons that consume a minimum of 1,240W. Its unique design optimizes LED performance, resists shock and vibration, and provides 360-degree visibility while minimizing unwanted ground-lighting effect. The L864 flashing red beacon carries a limited five-year performance warranty.

732-919-3119; fax 732-751-5778; www.dialight.com; info@dialight.com

Digital carrier power meters
Coaxial Dynamics

Digital Wattchman: This rack-mounted station monitor/alarm is similar in function and appearance to the company's 81090 series except that it is designed for the measurement of complex RF waveforms such as Code Division Multiple Access (CDMA) and DAB signals. It will also function well with AM and FM signals. A digital station monitor and alarm system installation consists of a Digital Wattchman, a dual socket line section and two digital broadcast plug-in elements for monitoring forward and reflected power. The power meter is supplied with four 25-foot cable assemblies for connection to the line section and elements, and a six-foot ac power cord. Installation requires inserting the line section and elements into the transmission line, connecting the terminals of the transmitter interlock systems to the proper terminals on the Digital Wattchman and providing ac power.

800-COAXIAL; fax 216-267-3142
www.coaxial.com; sales@coaxial.com

orban

OPTIMOD

ENGINEERED SOUND
TO MAXIMIZE YOUR AUDIENCE

OPTIMOD-FM 8400. Our flagship FM processor uses novel look-ahead technology to yield an unprecedented combination of loudness, presence, and low distortion. The choice of number one stations in major markets worldwide, 8400's dial-dominating impact attracts and holds audiences, book after book. 8400's easy setup, immediately usable presets, and unique versatility make it the clear choice for any FM station that wants the best.

OPTIMOD-FM 8200 Signature Series updates the 8200 with standard sample rate converting digital I/O, eight new contemporary-sounding presets and a fresh touch of color on the front panel.

OPTIMOD-DAB 6200 is ideal for any digital transmission medium, like Eureka 147 DAR. The 6200's CBS Loudness Controller is invaluable in any digital TV application, whether it's DTV transmission or uplink conditioning for DBS.

OPTIMOD 6200S. Whether you are streaming audio from a fixed location or producing live events for the Internet, the 6200S takes the power of OPTIMOD to your webcast.

OPTIMOD-HF 9200 is the new industry standard in AM processing for both the MW and HF bands. Orban's powerful DSP processing compensates for narrowband radios while cutting through noise and interference, maximizing your coverage area and audience share.

Digital Audio Workstation Post-Production. There is no better way to speed up broadcast audio production; no quicker return on investment.

OPTIMOD-FM 2200 offers the benefits of digital processing to stations on a tighter budget. The 2200 carries out all processing and stereo encoding in the digital domain to provide easy set up, flexible programming options, precision calibration and long-term stability.

1525 Alvarado St. San Leandro, CA 94577 USA | Phone: +1 510 351-3500 Fax: +1 510 351-0500 | custserv@orban.com | www.orban.com

Control surface
Logitek

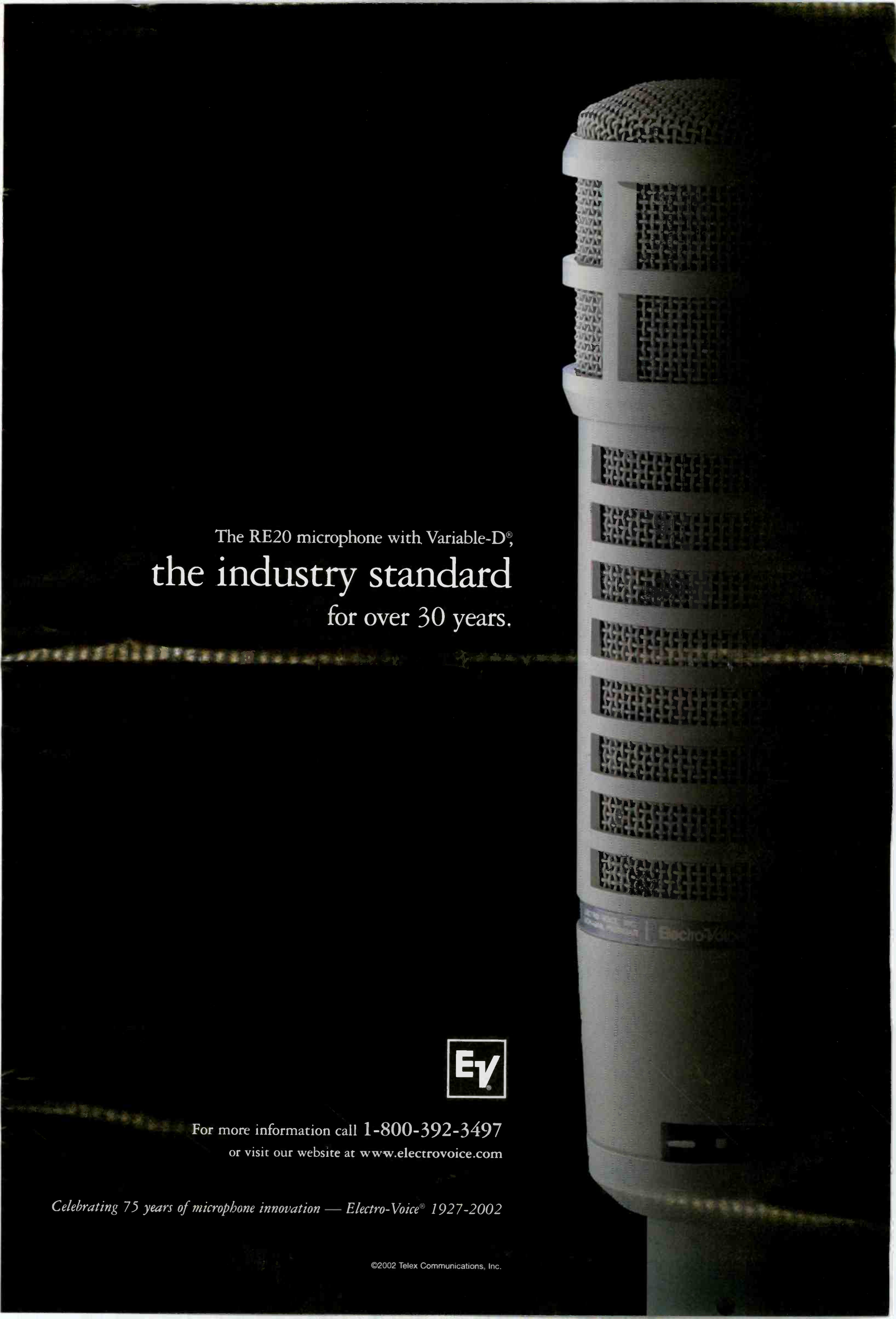
Numix Fader Wedge: This wedge completes the redesign of the Numix Digital Console. This product features a color LCD above the faders that indicates source, mode and timer information for each fader. Also redesigned were the bus selection buttons, which now light to indicate bus assignments. Each fader now has a dedicated talkback switch and each fader wedge offers six input channels with 100mm Penny & Giles faders and guarded on and off buttons. Cue signals can be PFL or AFL, and the faders can perform cue at infinity or fader start operations. Motorized faders are an optional feature. Each fader channel has LED indicators for on-air and in cue. Any audio engine input may be assigned to any fader.

877-231-5870; fax 713-664-4479
www.logitekaudio.com; info@logitekaudio.com

The RE20 microphone with Variable-D®,

the industry standard

for over 30 years.



For more information call 1-800-392-3497

or visit our website at www.electrovoice.com

Celebrating 75 years of microphone innovation — Electro-Voice® 1927-2002

©2002 Telex Communications, Inc.

Portable studio

Tieline Technology America

iMix: This portable studio combines the features of a remote broadcast portable mixer with built-in ISDN and a POTS codec capable of 15kHz audio. The remote broadcast mixer accepts as many as five mic/line inputs and provides a mix-minus bus. Intercom buttons on each input allow off-air communications between headsets. The studio also features channel on/off buttons, and cue and relay control buttons. All hardware features are software controlled and can be upgraded. The unit can also interface with generic codecs using G.711 and G.722 algorithms, as well as fully interfaces with the Tieline Toolbox software package that allows PC remote control for chat, upgrades and system monitoring.

317-259-8000; fax 317-259-8040; www.tieline.com; sales@tieline.com

Rototiller and Slanted-V styles

Propagation Systems

FM antenna line: A variety of radiating element designs is available for power applications from 1W to 120kW. Side-mount versions include the FHR and FMR Series Rototiller along with the FH and FM Series slanted V. For multistation applications, the CB Series cavity-backed radiator and FMP dipole panel are available. For the new LP FM service, the FL Series antenna is available in circular, vertical and horizontal polarization. Also available are the FY Series Yagi antennas.

814-472-5540; fax 814-472-5676; www.psibroadcast.com; psiba@surfshop.net

EAS encoder/decoder

Gorman-Redlich

EAS-1: This encoder/decoder offers a 25-pin printer port allowing an external printer to keep the EAS log, an auxiliary output through a coaxial BNC fitting to go directly into the FM exciter and a four-line, 40-character backlit LCD for rapid interpretation of alert messages. Alert messages can be scrolled on a remote sign board, a computer screen or with a character generator on a video monitor. Other features include a 20-key keypad to construct alert messages header code, set modulation levels or set input levels. The complete required weekly test, the end of the message code, sending a stored alert or sending a composed header can be done from the keypad on the unit or with a remote push button in the on-air control room. The EAS-1 is now available with an optional telephone interface for inserting an emergency message from a remote location with a DTMF telephone keypad.

740-593-3150; fax 740-592-3898
www.gorman-redlich.com

FM Educational Circular Polarization antennas.

Model	No. Bays	Max. Input Power	Price
MP-1	1	500 W	$250
MP-2	2	800 W	$650
MP-3	3	800 W	$950
MP-4	4	800 W	$1,250
MP-4R	4	2000 W	$1,750
MP-5	5	3000 W	$2,250
MP-6	6	3000 W	$2,700

FM Low Power Circular Polarization antennas.

Model	No. Bays	Max. Input Power	Price
GP-1	1	1500 W	$350
GP-2	2	3000 W	$1,350
GP-3	3	4500 W	$1,800
GP-4	4	6000 W	$2,500
GP-5	5	6000 W	$2,900
GP-6	6	8000 W	$3,500

FM Medium Power Circular Polarization antennas.

Model	No. Bays	Max. Input Power	Price
SGP-1	1	3000 W	$650
SGP-2	2	6000 W	$2,450
SGP-3	3	8000 W	$3,500
SGP-4	4	8000 W	$4,300
SGP-5	5	8000 W	$5,100
SGP-6	6	8000 W	$5,900
SGP-6R	6	15000 W	$6,500

Please Contact the OMB America Sales Department, for other antenna systems configurations

OMB

EUROPE
Commercial & T.V. Factory:
Avda. San Antonio, 41
Telefs.: 976.50.46.96 (6 lines)
Fax 976.46.31.70
50410 CUARTE DE HUERVA
(Zaragoza)

Antenna & Radio Factory:
Camino de los Albares, 14, bajos
Telefs.: 976.50.35.80 (6 lines)
Fax 976.50.38.55
50410 CUARTE DE HUERVA • (Zaragoza)
Internet. http://www.omb.es
e-mail: ombcom@infonegocio.com
VideoConference(RDSI) 976 46 32 00

INTERNATIONAL DIVISION
3100 NW 72 nd. Avenue Unit 112
MIAMI, Florido 33122
Ph.: 305 477-0973 – 305 477-0974 (6 lines)
Fax: 305 477-0611
Internet. http://www.omb.com
e-mail: ombusa@bellsouth.net
Videoconference: 1 305 5940991/92

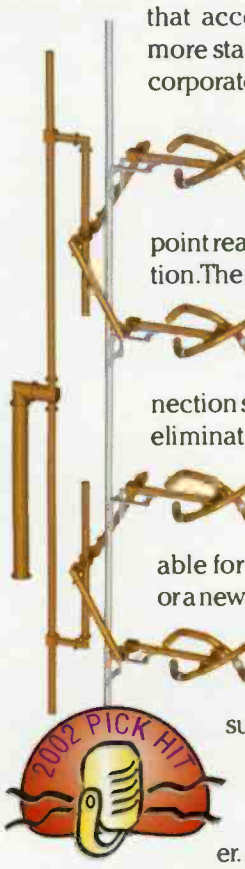
The best selection

TV & Radio antenna systems

Broadband FM antenna

ERI-Electronics Research

Axiom antenna: This antenna is a multistation, side-mounted antenna platform that accommodates 10 or more stations. Its design incorporates three-stage transformation, shape-factored elements and feedpoint reactance compensation. The antenna features a continuous solid-contact, interbay connection system designed to eliminate typical wear-and-tear bullet failures. The antenna is available for existing structures or a new site-specific design. This product features encapsulated, pressurized feed points that improve antenna reliability in inclement weather. A long support stem reduces tower distortion effects, and it's built of materials that provide resistance to environmental-related corrosion. Its mean gain is computer optimized and is a function of design frequencies. Axiom models are typically center fed and incorporate rigid coax harnessing.



812-925-6000; fax 812-925-4030
www.ERIinc.com; dcombs@ERIinc.com

If you're looking for the best in digital excitement,

X MARKS THE SPOT.

extreme digital...
from HARRIS

Harris offers one of the world's first commercial IBOC DAB exciters, DEXSTAR. Industry insiders know that Harris is responsible for most of the innovation in radio transmission products for the last 35 years. So it should be no surprise, that Harris is also the leader in IBOC DAB products. The DEXSTAR IBOC exciter is designed by Harris engineering, built to exacting standards in the world's largest broadcast transmitter-manufacturing facility and backed by a service department, recognized the world over for quality and commitment. If you're looking for a digital broadcast solution, from beginning to end, that offers the most advanced performance and reliability, stop searching. X marks the spot for Extreme Digital from Harris.

next level solutions

SERVICE

SYSTEMS

AUTOMATION

TRANSMISSION

HARRIS

www.**broadcast.harris**.com • 1.800.622.0022

get **extreme**

Lightning prevention systems

Cortana

Stati-Cat line: A full line of lightning prevention devices for a wide range of installations. Models include the CN-4 crow's nest dissipater that is designed to fit around a tower beacon and has more than 700 points. The SC-1 is mounted at regular intervals along a tower. The SC-4 is similar to the SC-1, but with a different mounting configuration. This system was designed for smaller STL towers.

888-325-5336; fax 505-326-2337

Pots and wireless codec

Comrex

BlueBox: Delivering the audio quality of a Matrix or Vector (15kHz on a single dial-up line), this codec is compatible with all existing Comrex POTS codecs, including the Matrix, Vector and Hotline. The Bluebox also provides GSM wireless operation to improve the audio quality of GSM phone feeds. Additionally, the codec can connect to the hands-free port on mobile phones and place calls to telephone hybrids (no codec is required on the receiving end of the call). Features include one mic/line switchable input, one headphone output and one line level output. An additional -10dBu tape input allows connection to a minidisc or DAT player. There are no special circuits to order and no distance limitations.

800-237-1776; fax 978-784-1717; www.comrex.com; info@comrex.com

Transmitter control enhancement

Armstrong Transmitter

Transmitter LCD Controller: This multi-purpose tool stores the last minutes of data from all transmitter parameters. Non-volatile storage is continuously updated, giving an accurate record of the last minute of operation. This is designed to minimize trouble-shooting time in the rare event of an alarm or failure. In the event of a main controller failure, the LCD controller takes control of transmitter serving as a backup to the main transmitter controller. An internal data modem allows the LCD controller to dial out to alert of a fault condition. It can also be used for remote control and data acquisition. The LCD screen allows instant access to all readings and functions. Software provided with the transmitter allows you to dial into the LCD to verify the transmitter's operation, to receive detailed current readings or to review the last moments of operation before an alarm or fault condition.

315-673-1269; fax 315-673-9972; www.armstrongtx.com; sales@armstrongtx.com

Did you ever wish you had a powerful, next generation music scheduler?

One that is easy to use, integrates to your digital automation system AND allows you to create the most complex music rotations?

Well, here's your chance!

Check out Prophet Systems' MusicGEN, a revolutionary breakthrough in music scheduling.

And Prophet Systems allows you the flexibility to own or lease your music scheduler. One station, one lease rate, one purchase rate, regardless of market size. We're so sure you'll like MusicGEN, that for the next 60 days we'll let you test the software. At the end of 60 days, you can lease MusicGEN for $150 a month, or you can buy the software for $3,500, the choice is yours. This is an introductory rate, so act now.

Features:

a. Integrates directly with your NexGen Digital Broadcast 2.2 + system.

b. Configurable output files that can be imported to most digital automation systems.

c. Create rules based on the coding that is important to YOU, create your own custom coding and base new rules on this new coding.

d. Make your rotations as simple or as complex as you'd like.

e. Categorize songs quickly with drag and drop features.

f. Build clocks with drag and drop technology.

g. Display vital database screens in a format that suits your needs by easily customizing the Log, Clock, Library and Song Editor screens.

Revolutionize Remotes and Generate Non-Traditional Revenues!

Create the maximum impact at your next remote or station sponsored event with Prophet Systems' exclusive Remote Buddy!

Remote Buddy is our new portable, standalone system that can be used by ANY station looking for the best way to draw people to their next remote. It's like having your studio hard drive in a suitcase!

High visibility and an exciting presentation are the keys to remote success, and no product gives you more audio and visual display options than Remote Buddy!

Our state-of-the-art audio/video player stores and plays back audio and video files. The super easy interface lets you play video files on the fly, or drop them into a pre-set script for automated playback with audio and sound effects. Plus, you can easily add eye-catching banners, logos, borders, text and graphics.

PROPHET SYSTEMS INNOVATIONS

Prophet Systems has the solutions to all your broadcast needs!

Now, more than ever, you need to maximize your time, energy and money. You know our reputation for quality and reliability, and now you can own a Prophet, even if you're not in the market for a new automation system! Introducing our new standalone products:

Remote Buddy

Revolutionize remotes and generate non-traditional revenues with our portable, standalone system. It's like having your studio hard drive in a suitcase! We can enhance your next remote or special event with sound effects, theming, lighting control, video signage... anything you need.

- Show video productions on your monster truck or van during your next parade or remote
- Develop non-traditional revenue streams with a traveling dance machine
- Brand your station and increase your listening audience
- Searchlights, spotlights and dancing logos are now within your reach

MusicGEN

Announcing a revolutionary breakthrough in music scheduling with MusicGEN. Now you can own or lease your music scheduler. One station, one lease rate, one purchase rate, regardless of market size. We're so sure you'll like MusicGEN, we'll let you test the software for 60 days. At the end of 60 days, you can lease MusicGEN for $150 a month, or you can buy the software for $3500, the choice is yours. This is an introductory rate, so act now.

Complete Broadcast Solutions

NexGen Digital is designed to meet the complex needs of today's broadcasters through high levels of system redundancy and connectivity, as well as database fault tolerance capabilities. The system is engineered to anticipate future growth. And, our entry level product, NexGen Digital NS starting at $9,999, allows you to select only the features that meet your particular needs and budget size.

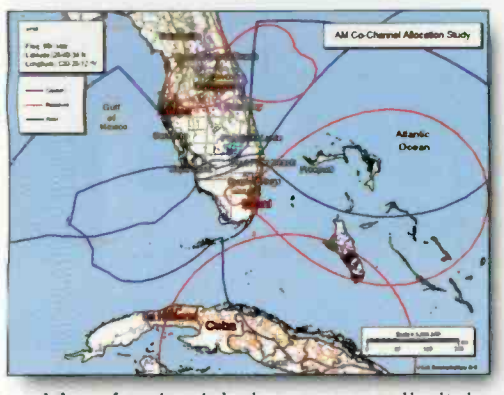
We are now offering financing options!

PROPHET SYSTEMS innovations
877/774-1010
www.prophetsys.com

THE FUTURE OF DIGITAL TECHNOLOGY.

Broadcast engineering software

V-Soft



AM-Pro: This program performs all the studies required of the spectrum designer in working with AM standard band broadcast coverage and allocations. AM-Pro is configured to apply the M3 or R2 ground conductivity curves depending on where the study is carried out. The program will plot ground-wave and sky-wave signal contours and perform RSS studies to determine the level of interference a given station receives and therefore its nighttime coverage limits in mV/m. AM-Pro implements an automatic sky-wave coverage analysis routine that operates according to a set of programmable rules. A tabular listing of all stations having a distance and channel relationship can be directed to a printer. AM-Pro has check boxes for toggling on or off co-channel, first-, second- and third-adjacent channel relationships. Clicking a listing will bring up the parameters box for the station selected allowing the user to change the station's operating parameters if desired.

800-743-3684; fax 319-266-9212; www.v-soft.com; kmichler@v-soft.com

Digital processor

Orban

Optimod 8400 version 2.0 w/ IBOC: Version 2.0 implements new low-delay processing on all presets, plus improved DSP algorithms that increase punch and presence. The 8400 was first introduced in 2000, and periodic software upgrades have maintained the 8400 as Orban's flagship FM processor. With version 2.0, talent can listen off the air through headphones without hearing any echo in their voices. This new software retains and improves on current technology and increases audio quality. The IBOC path provides multiple outputs to drive both analog and digital transmission chains while using a single processor and control surface. Existing 8400s can be upgraded with both ver. 2.0 software and the IBOC capability.

510-351-3500; fax 510-351-0500; www.orban.com; custserv@orban.com

On air digital system

MediaTouch

iMediaTouch: New live-assist features, satellite interfacing, non-proprietary architecture and console interfaces make this system an advanced on-air system for any format, any size or any broadcast cluster. The system runs without constant engineering supervision or IT management. It comes loaded with features such as open architecture design for adaptability to any radio station's format: live assist, automated and satellite. The system runs on Windows 2000, NT4.0 Server, workstation or on any Windows-compatible sound card. As many as four discrete analog playback outputs, plus multi-overlaps for hot buttons with optional discrete AES-EBU play out are available. A simultaneous LCD touchscreen, mouse, bi-directional start and stop console buttons and digital console RS-232 remote control are offered. An early warning system notifies the air operator or administrative personnel of missing digital events or logs well in advance of airtime. With this system the user has the ability to build a custom music library in hours.

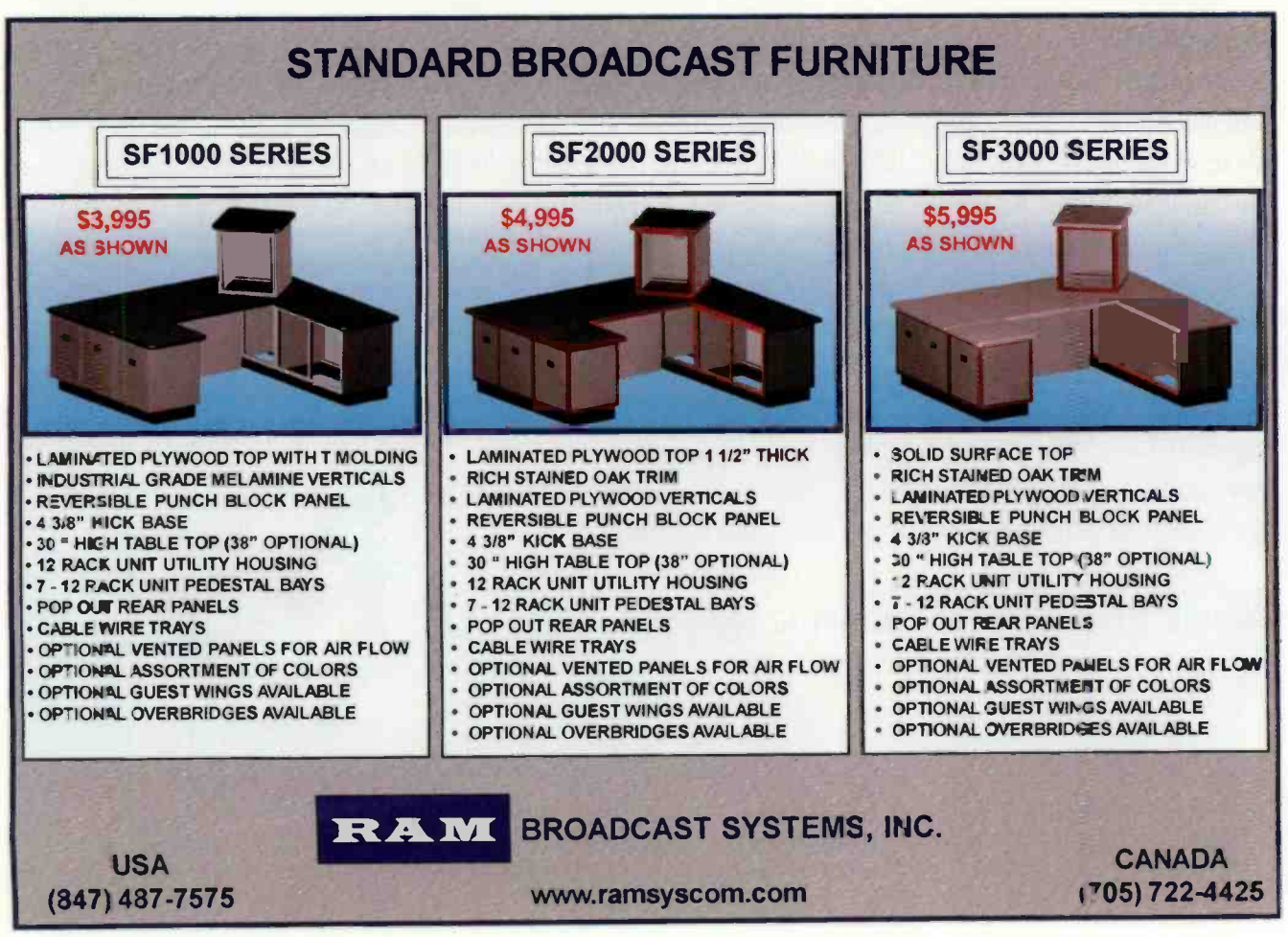
888-665-0501; fax 204-783-5805
www.mediatouch.net; omt@omt.net

Pre-fab sound enclosures

Acoustic Systems

Modular Studios: Custom engineered and innovatively designed, these modular studios for broadcasting and recording provide audio and video professionals with acoustical sound isolating environments that are required for sensitive modern digital technology. With isolated floors and silenced ventilation the room's interior acoustics can be tuned using non-parallel walls, canted windows, bass traps and wall treatments. Acoustic Systems has created a hybrid line of modularly constructed sound isolating rooms that achieve all the attractive relocation and pricing options of modular construction while also providing the level of finish normally associated only with conventional construction techniques.

800-749-1460; fax 512-444-2282
www.acousticsystems.com
info@acousticsystems.com



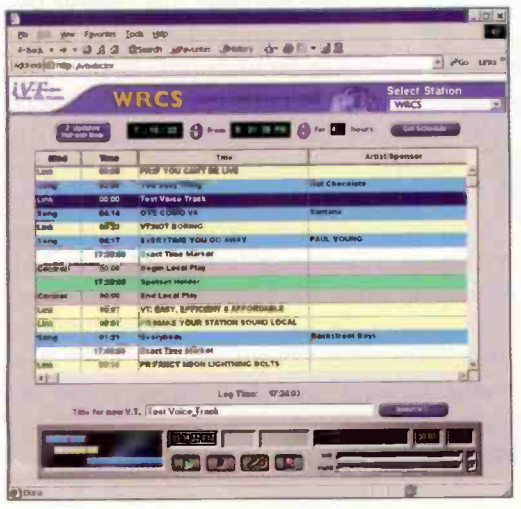
The New RCS Master Control XV

RCS' Master Control was the first hard disk audio studio automation system. As the pioneer, Master Control paved the way for many other automation systems. As the original, Master Control plays all the audio (promos, spots, voice tracks, etc.) on a radio station and also has many advantages over other systems when used in concert with Selector and Linker. With the on-going commitment to upgrades and solid compatibility with other RCS products, Master Control has a special place in the broadcasting industry. From the Master Control—Selector "Living Log" to Internet Voice Tracking to 24/7 Support, RCS packs quality into every product.

Internet Voice Tracking™

RCS invented "Real-Feel" Voice Tracking in 1990 and patented Internet Voice Tracking (IVT) in 1998 and is the acknowledged leader in this technology.

One talent can create eight shows or more in the time they do one show now. With "Real Feel" Internet Voice Tracking™, the talent controls song starts and exact placement of voiceovers while adding voice tracks to the station's program log over the Internet. No matter how far from the studio, RCS Internet Voice Tracking keeps the quality high and costs low. Tracks can be rehearsed, recorded and reviewed by talent before adding to the log and then played on the air automatically. IVT uses the Internet or corporate Intranet, LAN or WAN through the use of universally available TCP/IP protocol. It works on any PC connected to the Internet with a minimum of a 56k modem, standard Windows duplex audio card and recording/monitoring capability. Once the dry voice track is sent back to the radio station, the audio of the voice track is automatically deleted to free up disk space on the Talent's hard drive. Because the required heads and tails audio is deleted from the remote machine as the voice track is sent, no central replicated storage of audio data is required. With



no need for a group-wide numbering system in order to run IVT, each station has the autonomy and control to use own ID numbers. The future of broadcasting is getting the most out of your talent and creating low cost network shows. Internet Voice Tracking is one of the reasons Master Control remains on the cutting edge.

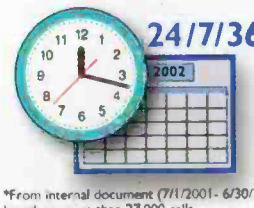
The "Living Log™"

As a new song or spot is added to the schedule, it can instantly be seen and broadcast from the On-Air studio. There is no copy-out/copy-in process because there is only one schedule—the "Living Log" can be viewed and manipulated simultaneously. Any authorized computer on the network can capture and edit audio, edit and modify logs, and perform administrative functions. When approved by the Program Director, talent in the on-air studio can have access to the entire Selector database. If a song on the log needs to be

substituted with another, for example, Selector XV presents a list of songs with a complete song play history grid and a rule failure list. An operator can make the smartest decision and choose the best song for that position without leaving the studio. All modifications are instantly executed and saved. All live station copy is embedded into the schedule right at the position it is needed in the log, which eliminates mad dashes searching for live copy.

Fast, World-class Support

RCS' technical support is ALWAYS AVAILABLE. Experienced software experts are available 24/7/365 so that radio people find answers fast. The latest on-going-quality-control study of more than 27,000 calls to RCS showed that the average support call was answered by a real human being in 12.5 seconds. The world renowned support department is made up of veteran radio people, each of whom have many years of in-the-trenches experience as engineers, PDs, MDs and air talent. They not only solve problems, but also provide tips and advice on ways to optimize RCS software and hardware. They are RCS' true secret weapon and help engineers and programmers learn and grow.



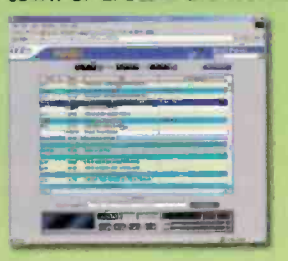
*From internal document (7/1/2001- 6/30/2002) based on more than 27,000 calls.

Besides the 24 hour direct line support team, RCS also offers online support and e-mail support. Dozens of RCS support staff members are available around the world and in dozens of languages. Besides training videos and written documentation, there is also extensive online information from the RCS website, www.rcsworks.com. For fast troubleshooting, Master Control XV systems are accessed and diagnosed by RCS support engineers via modem and remote control software. RCS not only sells the systems and software, but also stands behind the product. One of the reasons Master Control is the system of choice for many stations around the world is that RCS responds to its users. Master Control and all the RCS products are the by-product of user needs, input and ideas.

The New MASTER CONTROL™ XV

Three more reasons to make the switch!

Internet Voice Tracking
Use top talent from across town or around the world.



24 Hour Support
The average RCS support call is answered by a real human being in 12.5 seconds.* If you have a question, we've got the answer no matter what time.

*From internal document (7/1/2001- 6/30/2002) based on more than 27,000 calls.

Living Log
No more copying log out and into the studio. All schedule changes are immediate.

See the difference, hear the difference, get the best!

RCS Sound Software
Master Control is Selector® smart.
For live-assist, automation, satellite, Internet and remote broadcasting.

Call, click or email now:
914-428-4600
info@rcsworks.com
www.rcsworks.com/howitworks

NOW, a digital exciter that does what all digital exciters should do.

The new **FXi 60** digital FM exciter from Broadcast Electronics is the first exciter to offer all of the following in a single package, and all of it as standard equipment:

- Direct to channel digital synthesis
- Accepts all of the following inputs:
  - Composite
  - AES/EBU
  - Mono
  - Left and Right analog
- Automatically switches between inputs
- All operational parameters programmable from full color front panel screen
- Fully IBOC compatible: Allows for low level combining implementations without the use of a second exciter or costly external combiners and filters.

The latest in a long line of innovative FM exciters from **Broadcast Electronics**. A 250 watt version is also available.

www.bdcast.com BE RF SYSTEMS (888) 232-3268

©2002 Broadcast Electronics, Inc. The BE emblem is a registered trademark of Broadcast Electronics, Inc. BE0302

RADIO SOFT

109 W. Knapp Ave, Edgewater, FL 32132
Phone 1-888-RADIO95 in the US
Globally, phone 1.386.426.2521
Online go to www.radiosoft.com

When **REACHING** your **AUDIENCE** means the **MOST.**

- Search for FCC license data online
- Locate potential frequencies
- Automatic interference calculations
- Accepted and used by the FCC
- Real time 3D displays
- Fast, accurate, cost effective mapping

Considered by many to be the industry leader. Broadcast Professionals can count on RadioSoft for fast, accurate radio mapping.

2002 Product Source

Portable digital audio recorder
Mayah Communications

Flashman: This portable recorder handles linear and MPEG audio files. With no moving parts, this solid-state recorder uses Compactflash cards, which allow more than eight hours of mono audio at MPEG Layer 3 on a 256MB card. The removable card can be read by standard PC card readers for file transfer. Flashman features include record and playback in stereo and mono; 32kHz, 44.1kHz and 48kHz sampling rates; marking during record and playback; S/PDIF in and out; more than five hours of operation with alkaline batteries; and optional rechargeable batteries with an external loading station.

+49 0 811-55-17-0; fax +49 0 811-55-17-55; www.mayah.com; info@mayah.com

Digital audio console
Auditronics

ALM-12d: Combining the functions of a router and an on-air audio console into one package, this console lets any input source be routed to any fader or monitor pot. Features include 12 faders plus two caller faders, four mic preamps, control room and studio monitoring, and built-in cue speaker and headphone amp with concealed output jack. A complement of high-end features includes bright LED dot-matrix source displays above faders and monitor pots, and 24-bit A/D and D/A inputs and outputs. Its AES digital inputs have sample rate converters, enabling them to work with virtually any digital source. As many as eight external source machines can be controlled via channel on/off switches (all opto-isolated). The dual fader phone channel's caller tools generate automatic mix-minuses, and any of the console's four MXMs can be programmed to be pre- or post-fader.

252-638-7000; fax 252-637-1285; www.auditronics.com; sales@wheatstone.com

Digital audio router
Audioarts Engineering

ADR-32: The 2RU self-contained rackmount unit is a 32x32 AES switcher with front panel X-Y control and built-in monitor speaker. It interfaces with Wheatstone digital console source displays and may be controlled by the Wheatstone family of console- and turret-mounted control heads as well as the Wheatstone X-Point PC software package.

252-638-7000; fax 252-637-1285; www.wheatstone.com; sales@wheatstone.com

Modular Sound Isolation Studios

For the best performance, choose a modular enclosure from Acoustic Systems for your new studio's sound foundation.

ACOUSTIC SYSTEMS
The science of silence

800/749-1460
FAX: 512/444-2282
www.acousticsystems.com
e-mail: info@acousticsystems.com

Matrix–

QUITE POSSIBLY THE LAST CODEC YOU'LL EVER BUY.

THE CODEC FOR THE FUTURE

Your remote equipment toolbox may already include ISDN and POTS codecs plus a slew of other stuff. Now they are talking about high speed GSM digital wireless — and coming soon...3G.

The Matrix's modular approach is designed with this future in mind. The core of the Matrix's flexibility revolves around full access to its powerful coding engine through easily inserted modules and upgradeable flash memory. Whatever may be coming down the communications pipeline, the Matrix is ready.

THE CODEC FOR TODAY

WIRELESS

- 5 kHz real-time, full duplex audio on GSM wireless phones
- Up to 10 kHz real-time, full duplex audio on HSCSD GSM
- 15 kHz real-time, full duplex audio on portable Inmarsat terminals (with optional ISDN module)
- 15 kHz nonreal-time, "Store and-Forward" feature may be used on many mobile circuits
- Optional battery kit delivers power for up to 7 hours

ISDN*

- Layer III for 15 kHz at 64 kb/s
- G.722 for wide compatibility with other codecs
- Turbo-G.722 for 15 kHz with only 6 mS of delay
- Layer III transmit with G.722 return to reduce delay
  - 1200 baud ancillary data available
  - Fully international terminal adapter works worldwide

* ISDN module required

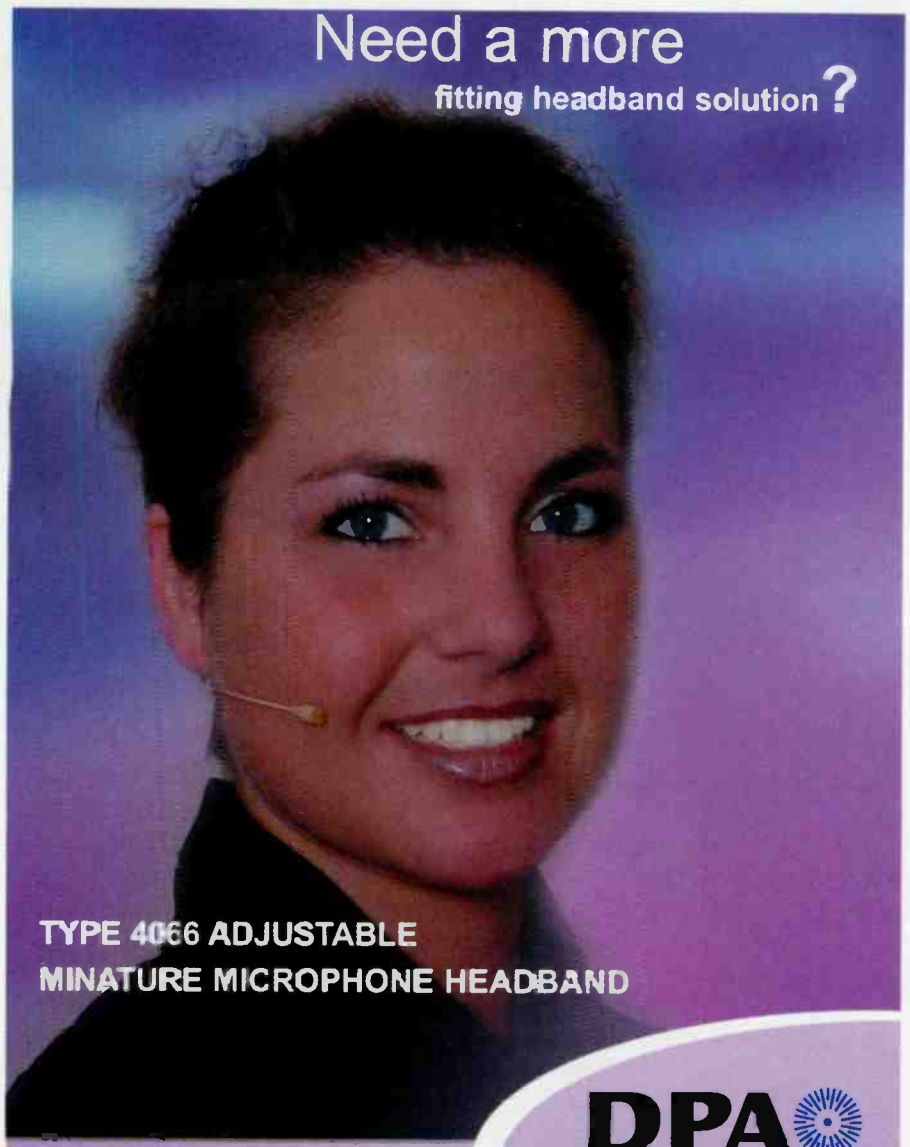
POTS

- 15 kHz full duplex audio on a standard telephone line
  - Available in portable or rackmount versions
    - Modular design enables use on future circuits
    - Will work at data rates as low as 9600 baud
  - "Store and Forward" allows 15 kHz, nonreal-time audio transmission at any data rate

COMREX

Broadcasters General Store

2480 SE 52nd St., Ocala FL 34480-7500
Tel: (352) 622-7700 Fax: (352) 629-7000
Email: info@broadcastdealer.com www.broadcastdealer.com



Upgrade package
Patriot Antenna Systems

Patriot 3.8 meter antenna: A C/Ku high-efficiency satellite antenna, this meter antenna features a 16-petal design for high accuracy with low transportation costs. Mounting options include Az/El fixed, polar mount and king post. The antenna is useful for educational, business, data and voice applications. Additional features include 125mph wind loading (survival) and surface tolerance within 0.02 inches. The antenna is fully compliant with FCC spec 29-25 Log O for 2-degree spacing. The entire antenna is powder-coat painted. Complete turnkey systems are available. This antenna has an in-ground mast foundation and offers an optional pipe stand with bolt and template kit.

800-470-3510; fax 517-629-6690; www.sepatriot.com; info@sepatriot.com

Transmitter remote control
Electronic Associates

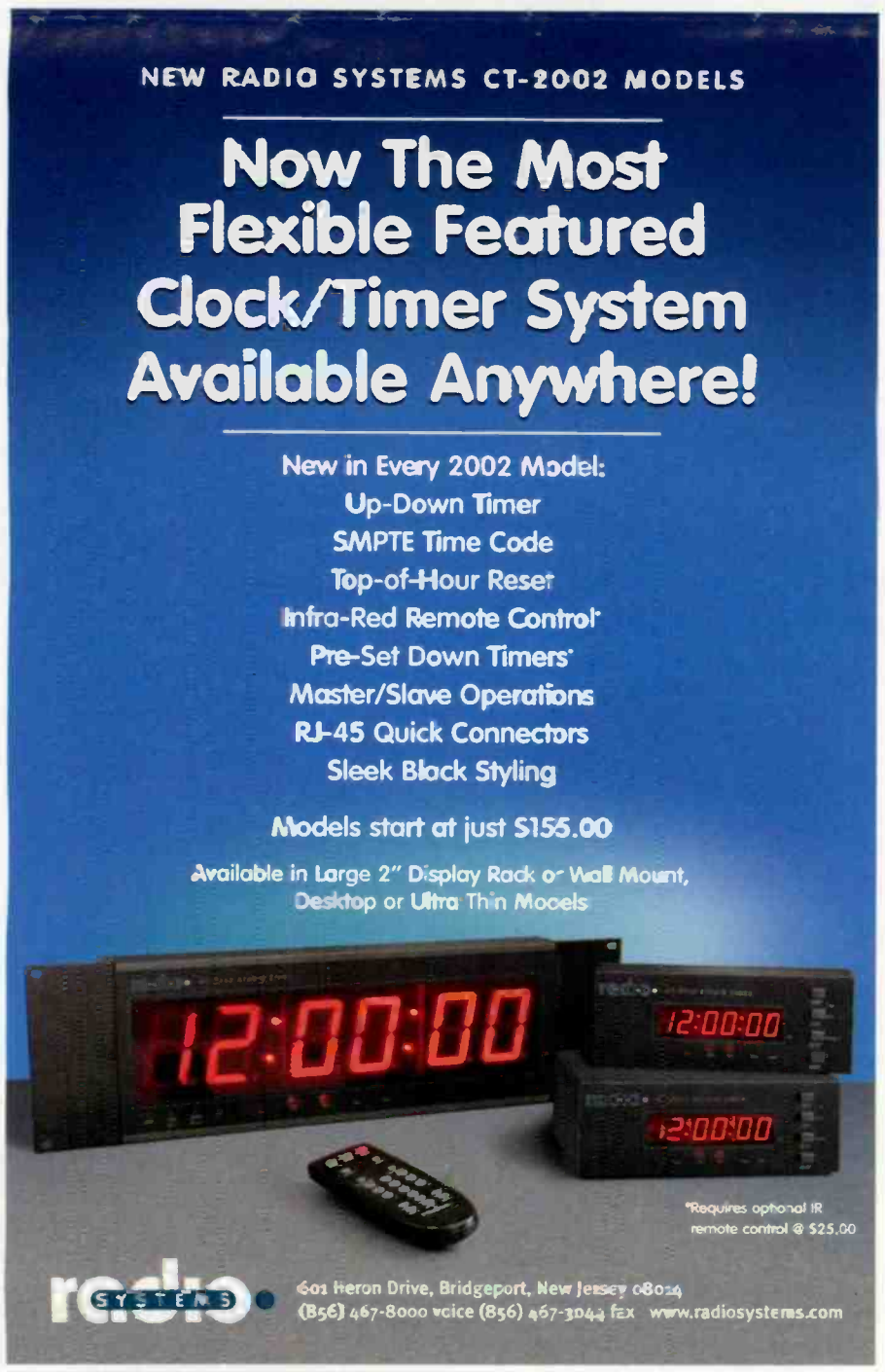
Dataworks: Dataworks operates using a dedicated data interface to a control site or as a stand-alone unit and includes standard voice, data and pager access and operating modes. It includes a multipurpose interface that will operate as a dial-in channel using the remote access program or a touch-one interface with speech responses. The interface mode is sensed automatically. In addition, the interface may be directed to automatically call out to selected phone numbers with announcements describing the condition or problem that caused the call. As many as eight phone numbers can be stored. The user may program as many as 16 custom voice messages using the voice dictionary.

915-595-3103; fax 915-590-6637; www.elecassoc.com; info@elecassoc.com

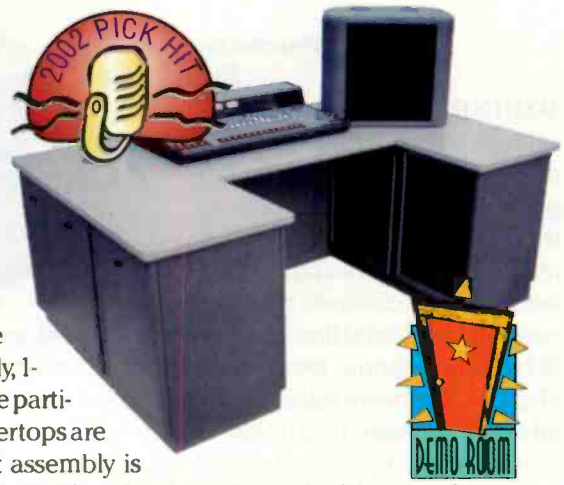
Turnkey studios
RAM Broadcast Systems

Cabinetry and prewiring services: Specializing in the fabrication of radio and TV studios for more than 30 years, RAM has designed and prewired systems for all of the major networks, group owners and news organizations. Clients include Paul Harvey News, ABC, CBS, Fox, NBC and WGN. Studio furniture is manufactured in solid and laminated tops with multitrim options. The company also manufactures products such as switchers, monitoring and metering systems, and is an authorized dealer for more than 200 broadcast equipment manufacturers.

800-779-7575; fax 847-487-2440; www.ramsyscom.com; sales@ramsyscom.com



Studio furniture
Mager Systems



Sound Choice Furniture: This new series of stock studio furniture offers high quality materials throughout. Vented cabinets have curved corners and countertop edges are rounded. A standard color choice is available. Various riser heights are available for the rack turret. The cabinets are 19-ply, 1-inch thick plywood and do not use particleboard or melamine. The countertops are solid-surface Avonite. No cabinet assembly is required. All surfaces are fully sealed with no laminate to crack, chip or peel.

623-780-0045; fax 623-780-9860
www.magersystems.com; mager@magersystems.com

Satellite audio delivery
ABC Radio Satellite Services

Distribution Services: ABC delivers branded and independent syndicated programs, sporting events, live concerts, premieres and press releases via satellite to thousands of radio stations and millions of listeners coast-to-coast. The company offers a variety of products and services. Distribution is achieved on AMC-8 via Starguide III, the primary satellite and system for United States commercial radio distribution. It offers three types of channels tailored to fit a user's needs: joint stereo (192kb/s or 128kb/s), 20kHz dual channel mono (96kb/s) and 10.2kHz dual-channel mono (64kb/s). This system is a gateway to the New York Technical Operating Center from Dallas, Los Angeles and Washington, DC. It offers record and playback services. Talk radio-ready studios are available in New York, Los Angeles and Washington, DC.

212-456-5804; fax 212-456-5809
www.abcsatelliteservices.com

Live performance mics
Audio-Technica

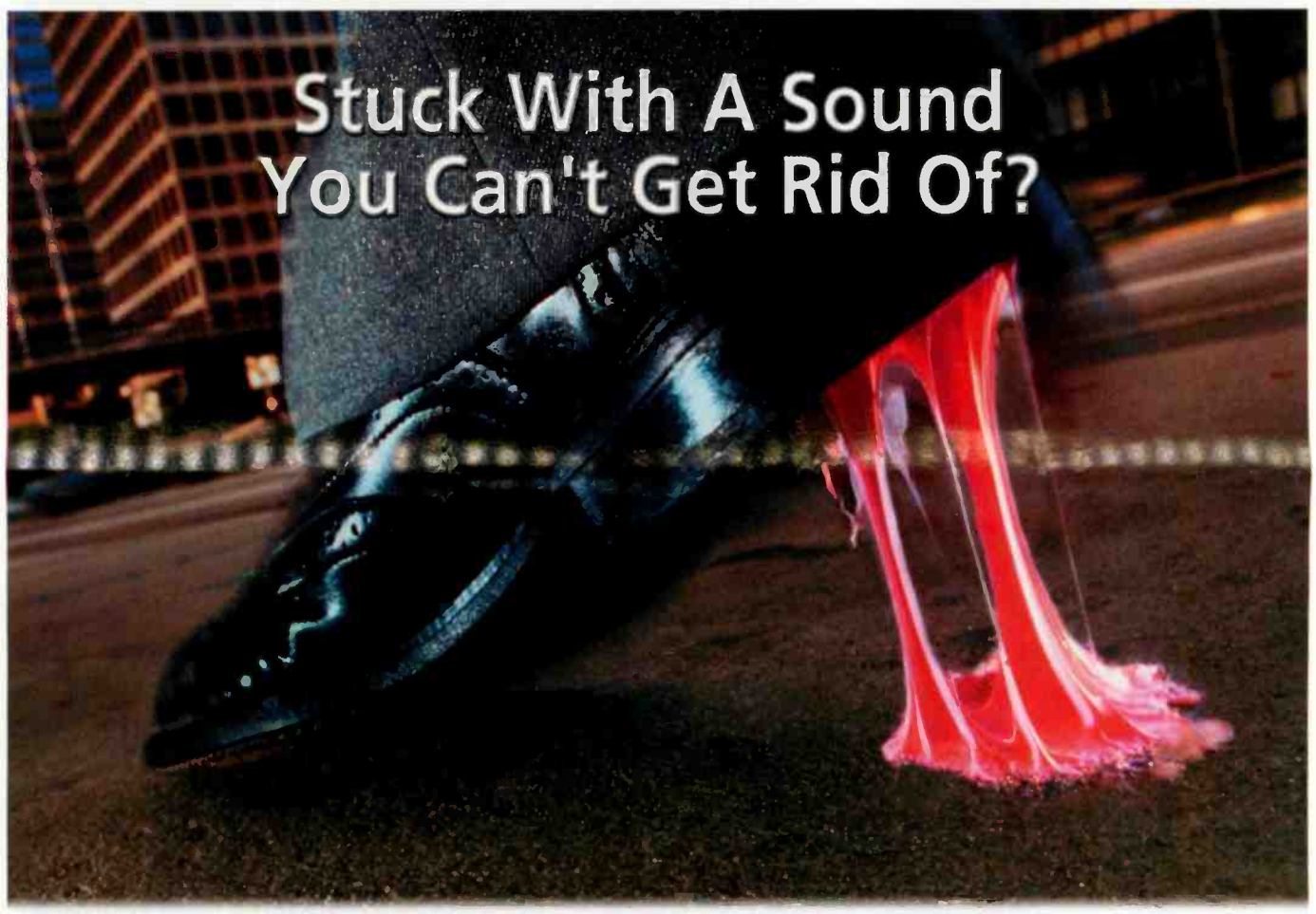
Atist Elite series: A series of four hand-held microphones (two condenser, two dynamic), these mics bring quality sound to remote and studio broadcasts. The flagship in the series is the AE5400 cardioid condenser microphone, which features a true condenser, large-diaphragm element design. The AE5400 uses an aged, vapor-deposited gold diaphragm for a flat frequency response with improved dynamic range and handles high SPLs without sacrificing high-frequency performance. The microphone also provides a switchable 80Hz high-pass filter and a 10dB pad. It offers off-axis response that is linear and uniform across the frequency range of the microphone. To ensure performance, the mic features anti-shock engineering for isolation from noise and vibration, a new multi-level windscreen design and includes the company's AT8470 Quiet-Flex stand clamp.

330-686-2600; fax 330-686-0719
www.audio-technica.com; pro@atus.com

Audio silence sensor
Danagger Audio Works

Plan B: Combining the functions of an audio loss detector, a CD/MP3 player and a talking remote control system, the Plan B provides a backup system to eliminate dead air caused by equipment failure or human error. On detection of an interruption of user-set duration, the unit switches its built-in disc player online and then dials three telephone numbers in sequence until it makes contact. A pre-recorded voice reports the unit's status, then lets the user control the Plan B and any external equipment connected to the unit's three auxiliary relays or status inputs. The user can also listen to the incoming audio or the disc audio through the phone. The unit can play audio CDs and MP3 CDs to provide as long as eight hours of backup programming. The drive can play cuts in sequence or random order, and it can be set for looping playback. External inputs can be digital (up to 24bit/96kHz) or analog. All signals are looped through the unit via gold-contact relays. Other features include an alarm siren with external mute, a tabulating failure memory and a safety switch to prevent accidental activation. It occupies 2RU.

888-892-8346; fax 250-763-2902; www.danagger.com; info@danagger.com



YOU NEED THE NEW APHEX 2020MkIII AUDIO PROCESSOR

Settling for flabby, undefined bass? Buried, clouded, mids? Shrill, annoying high end that you just can't tune out of your current processor? Is your only comfort that some of your neighbors on the dial sound as bad or worse than you do? Then it's time to step up to the new Aphex 2020MkIII.

Radically new processing algorithms and circuitry bring even greater loudness while maintaining clarity and musicality. The bass is tight, deep and resonant, the mids are detailed and forward, and the highs are open and natural. The 2020MkIII is so powerful, yet so clean, it is the only "broadcast" processor used in world class post production and mastering facilities.

With an extensive range of useful controls you can readily achieve your own unique sonic signature ....a sound that you'll never want to get rid of.

Call us today to audition the new 2020MkIII at your station.

APHEX SYSTEMS

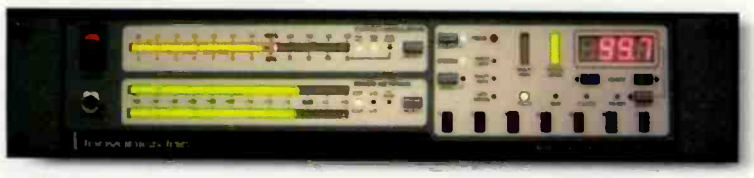
Improving the way the world sounds℠

11068 Randall Street, Sun Valley, CA 91352 U.S.A
818-767-2929 Fax: 818-767-2641 www.aphex.com

Aphex is a registered trademark of Aphex Systems

FM Mod-Monitor
Inovonics

Model 531: Though the 531 resembles its predecessor, the 530, with its straightforward front-panel layout, it has been completely re-engineered. Digitally-synthesized tuning is a decided convenience and stability advantage compared to the analog tuning potentiometers used in the 530. Local oscillator phase noise, a consideration in the original 530 design, is eliminated through the use of new synthesizer technology. Seven station presets can be stored, recalled and updated as easily as with a car radio. A built-in subcarrier measurement offers an accurate indication of subcarrier injection levels for RBDS and SCAs, plus DARC and other data services. There is no need for a separate box or to kill program audio to set subcarrier injection. AM noise measurement gives a readout of the incidental AM component of the off-air signal. It is a useful tool for transmitter tune-up when a strong signal is available. In the AM noise mode, the front-panel headphone jack monitors the noise to help correlate the reading with legitimate program artifacts.



800-733-0552; fax 831-458-0554; www.inovon.com; info@inovon.com

Portable mixer
Behringer

MXB1002: This 10-channel mixing console operates on either ac or battery power for studio or on-the-road applications. The input compliment includes two mono, three stereo and a separate stereo tape return channel. All stereo channels feature separate gain controls for mic and line inputs. It also has three-band EQ on each channel, two aux sends and inserts on all mono channels. The mixer features gold-plated XLR mic connectors on all mono and stereo channels, as well as discrete mic preamplifiers on all microphone inputs. It offers balanced 1/4-inch stereo jacks and balance controls on all stereo channels. At its largest dimensions, the unit measures 8.5 inches × 11.75 inches × 2.875 inches.

877-672-0816; fax 425-673-7647; www.behringer.com; support@behringer.de

Network monitoring software
Dawning Technologies

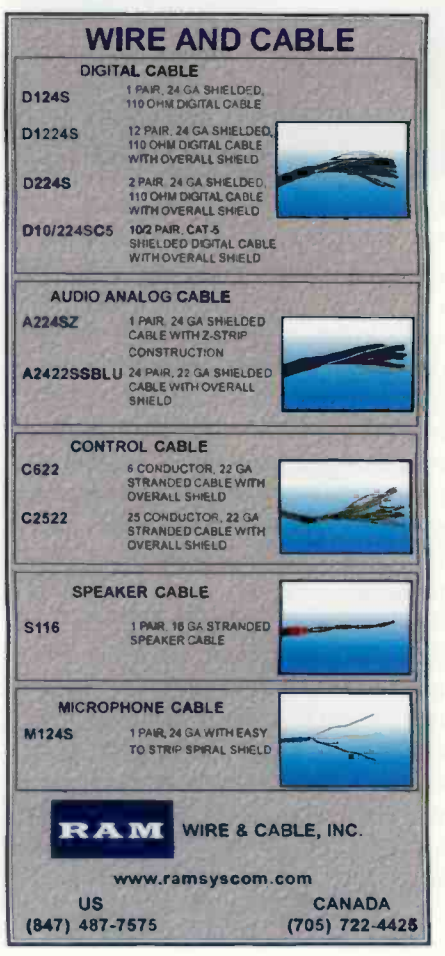
Resultnet/Plus: Dawning develops interfacing software for broadcast companies, network providers, site management companies and a variety of other organizations. It offers a research and development program dedicated to combining modern software and hardware technology to provide cost effective, innovative software. Currently the company is in the final phases of development of a fourth generation interface.

800-332-0499; fax 716-223-8615
www.dawning.com; sales@dawning.com

Satellite services
Clear Channel Satellite Services

Satellite time and equipment: Clear Channel provides several satellite services to fit any need. Services include MCPC (multi-channels per carrier), SCPC (single channel per carrier) and Emergency Backhaul Service. Services are provided through AMC-1, AMC-2, AMC-4, AMC-8 (GE-8), PAS 8 or SATMEX 5 and are available in Ku-band or C-band frequencies. In addition, the company offers equipment sales, rental, installation and repair services.

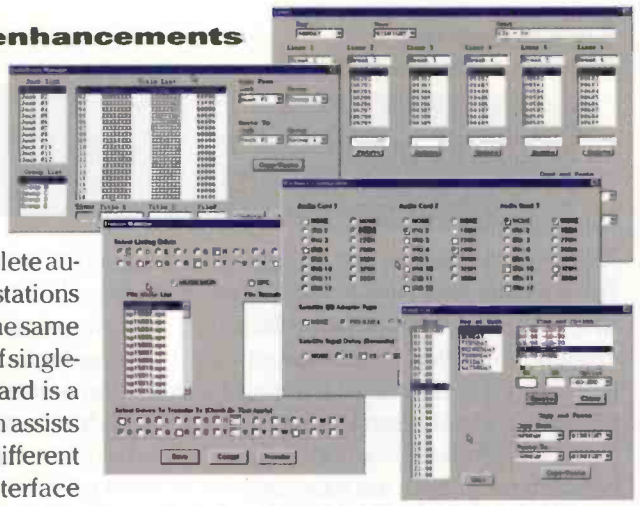
303-925-1708; fax 303-925-1714
clearchannelsatellite.com
info@clearchannelsatellite.com



2002 Product Source

System and file enhancements

Pristine Systems



Rapidfire updates: There are now four upgrades to the Rapidfire system. The Audio File Manager utility was designed for the Windows user to transfer and delete audio files from several workstations (on-air and production) at the same time eliminating the chore of single-file deletion. Rapid.ini wizard is a user-friendly interface, which assists the user to modify the many different settings for Rapidfire. The interface was created to help the user feel more comfortable in making changes and help reduce the possibility of errors. Rapidfire Autobreaks and Liners wizard will assist Windows users with customizing Autobreaks and Liners formats for each hour of the day based on the station's format. This helps in scheduling end-of-hour and time-critical Autobreaks for joining a satellite feed, playing back-to-back music, running a live show or any combination of the three. Audio Drops Manager facilitates the process for the Windows users in creating and managing jock profiles for unique Audio Drop presets. Each jock profile can store as many as 90 audio drops for each of the 12 jock profiles, for instant play-back from the Rapidfire main screen.

310-831-2234
fax 310-831-6287
www.pristinesys.com
sales@pristinesys.com

Digital FM transmitter line

Harris

Z IBOC Transmitters: Designed with the same features and benefits of the Z CD transmitter series, and drawing on

the company's experience in digital TV linear transmission techniques, Z IBOC transmitters incorporate proprietary linearization and correction features that maximize coverage, increase efficiency and can eliminate the need for expensive external RF output filters. Harris drew from its experience in providing transmitters for IBOC field tests. Available in two versions: a hybrid version to transmit a hybrid analog/digital signal, and an IBOC-only model.

800-622-0022
fax 513-459-3890
www.harris.com
broadcast@harris.com

Cases

ZERO MANUFACTURING INC

50 Years of Case and Packaging Solutions
Protecting valuable equipment is what we do

Whether your application calls for one enclosure or many, Zero Manufacturing, Inc. can support your engineered needs.

- We are the only manufacturer of both plastic and aluminum cases.
- Our 19" rack cases offer the most rugged rack system available.
- If our standard cases don't meet your needs, our team of engineers are ready to help design a custom solution.

1-800-547-3960 • www.zerocases.com

PROVIDING
CUSTOM "OEM" ENCLOSURES
FOR OVER 30 YEARS!

Allow Us to Quote On Yours Today

Call: (800) 231-4482 • *Fax:* (865) 428-4483
Website: www.tentec.com
E-mail drawings to: enc@tentec.com

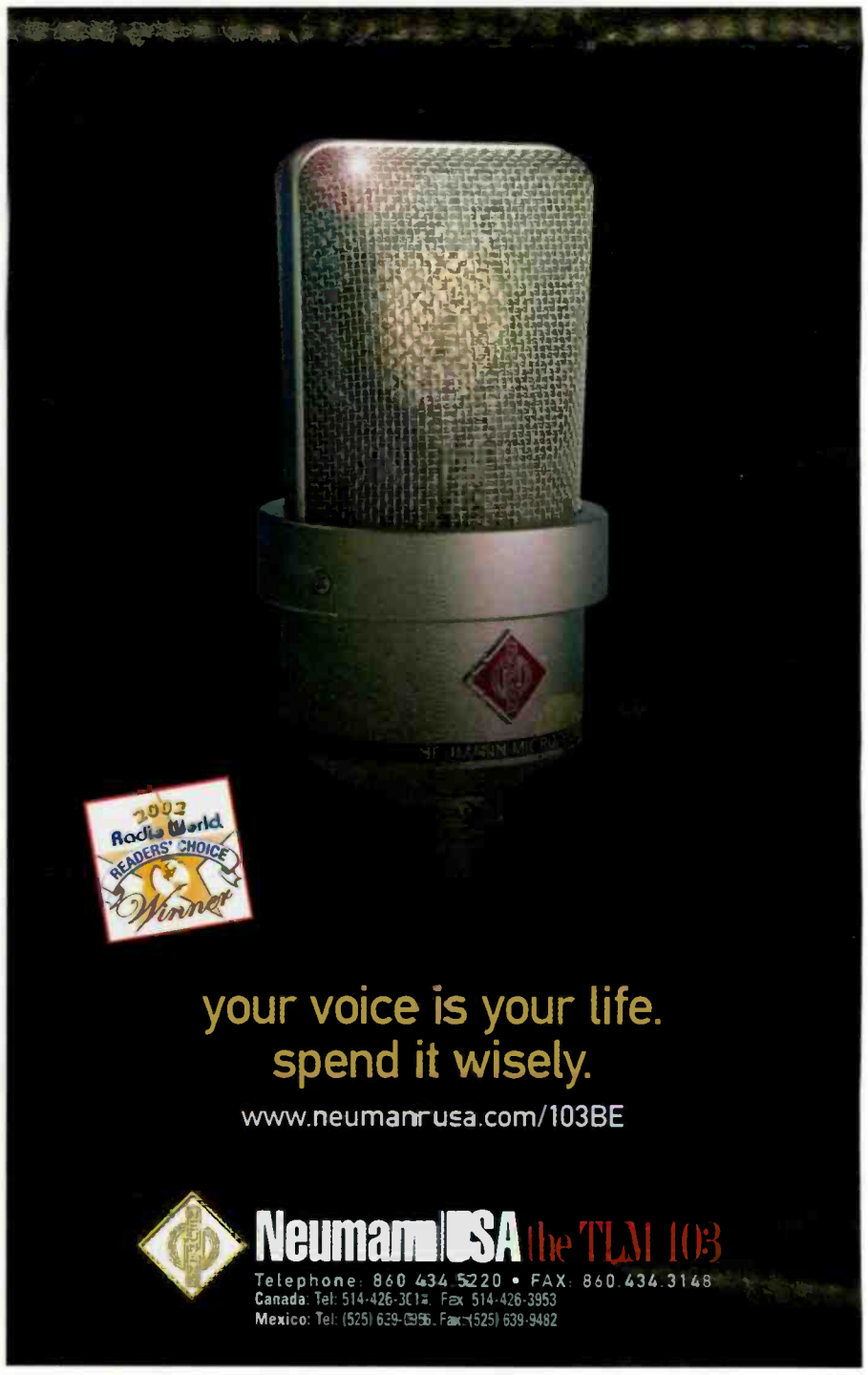
TEN-TEC
1185 Dolly Parton Parkway • Sevierville, TN 37862
Office: (865) 453-7172

Flexibility
Value
Style

The Power to Move Ahead

With the fast-moving, competitive nature of this business, you need equipment that can smoothly shift gears with you. Logitek digital consoles have the flexibility to meet any of your programming requirements and our sleek, smooth styling turns your studios into elegant showrooms. Even better, you'll find our prices very attractive. For more information, call us toll-free at 800.231.5870. Logitek – Digital With a Better Difference!

Logitek
www.logitekaudio.com



your voice is your life.
spend it wisely.
www.neumannusa.com/103BE

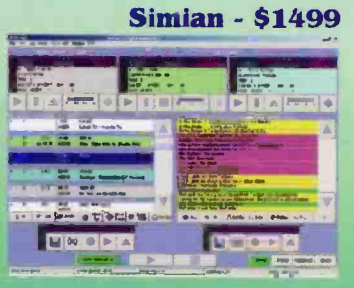
Neumann USA the TLM 103
Telephone: 860 434 5220 • FAX: 860.434.3148
Canada: Tel: 514-426-3013. Fax 514-426-3953
Mexico: Tel: (525) 639-0956. Fax: (525) 639-9482

Great Software from BSI

BSI created Simian digital automation, but did you know that we have a whole family of products for Radio?

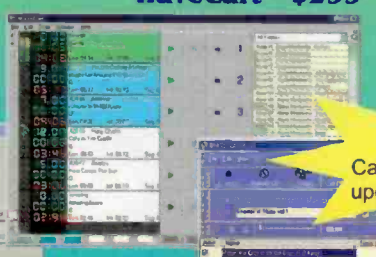
WaveCart, Stinger, Speedy, Skimmer and WebConnect can all work together to make your station function professionally and sound amazing. In addition to the software that we produce, we offer software and hardware accessories from our partner companies.

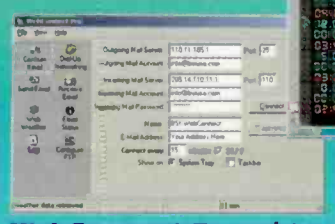
Simian - $1499



Powered by DELL

WaveCart - $299





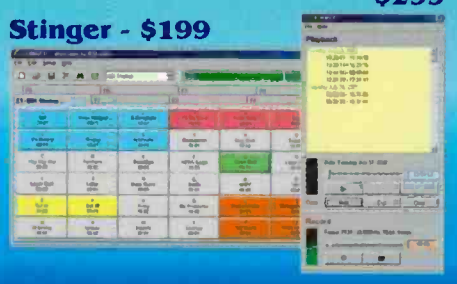
New! Call for special upgrade pricing

WebConnect Pro - $299

Skimmer $299

Speedy 4.0 - $199

Stinger - $199



All of our programs are available on our website for download. So install our software and try it for yourself.

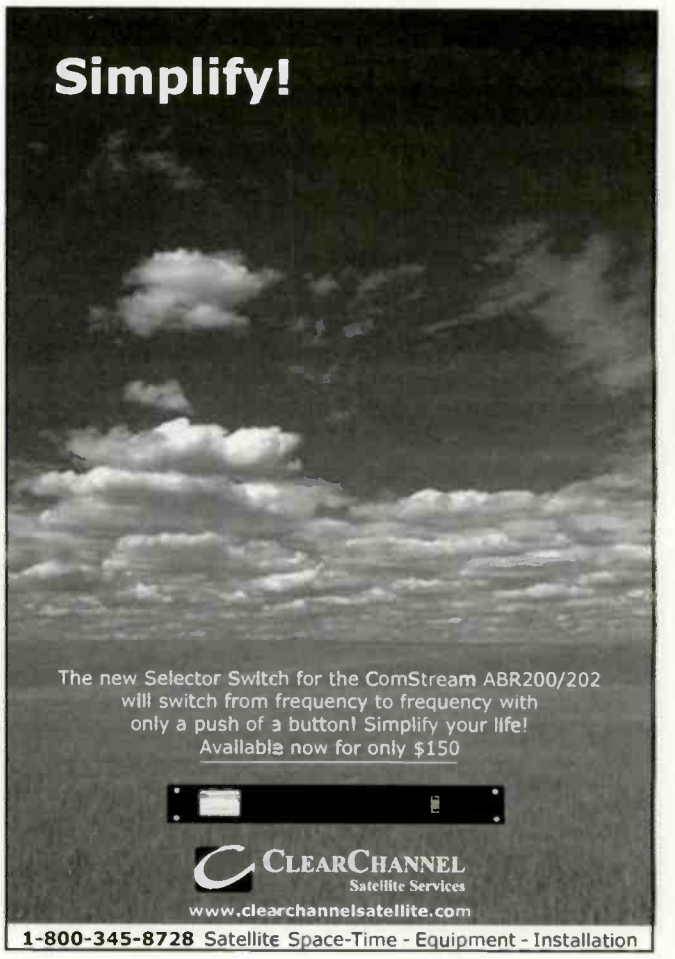
Once you've decided that it's the software for your station, give us a call or order online.

Thousands of users have discovered how easy and versatile BSI software really is.

Test and try before you buy.

888-bsiusa1 www.bsiusa.com sales@bsiusa.com

BSI



Coaxial Dynamics'

Line of Liquid/Air Terminations are quickly becoming the industry standard for testing, adjusting and alignment of R.F. Transmitters.

Liquid/Air Cooled Loads are available to handle requirements from 600W to 12.5kW.

See us at NAB Radio Show, Sept. 12-14, 2002.

COAXIAL DYNAMICS
SPECIALISTS IN RF TEST EQUIPMENT & COMPONENTS

15210 Industrial Parkway, Cleveland, OH 44135
216-267-2233 800-COAXIAL FAX: 216-267-3142
E-Mail: coaxial@apk.net
Web Site: http://www.coaxial.com

EAS receiver
Dayton Industrial Corp

AFC3: The company's line of receivers is designed for professional or EAS monitoring. Three receivers for NOAA, AM, FM or public service band are housed in a 1RU case. The AFC3 contains a front-panel audio selector switch, mounted small speaker and headset outputs controlled by a volume control. Also mounted on the front panel are LED indicators that indicate carrier and modulation activity for each receiver. An alert indicator and test/reset switch is mounted on the front panel for those receivers that use alert tone detectors, such as the weather and public-service monitors. The rear panel contains outputs for the receivers. The receiver uses a 12V power source.

941-351-4454; fax 941-351-6081; www.daytonindustrial.com; sales@daytonindustrial.com

IBOC transmitters
Broadcast Electronics

FMi Series: A new line of IBOC-compatible transmitters, this FMi solid-state IBOC transmitter line is based on the solid-state FM products now in production, the C and S series FMs. Using linearization techniques, these products can be used in a high-level combined system or common-amplifier system. They are designed to work with the FXi exciters and FSi-30 IBOC signal generator.

217-224-9600
fax 217-224-9607
www.bdcast.com
bdcast@bdcast.com

CD ripping software
RCS

Selector Smart Ripper: This technology rips a song and then releases the industry-standard scheduling codes to an active Selector database. It reduces the time a radio professional has to spend in front of the computer. Not only does this technology create an audio file, which can be imported to any on-air automation system, it also incorporates the Smart Editor. Smart Editor allows the user to edit, equalize, normalize, add reverb, reduce noise and create special versions of the ripped audio file for different stations. This system is only available to Selector and Master Control clients.

914-428-4600
fax 914-428-5922
www.rcsworks.com
info@rcsworks.com

Wiring break-out-box accessories
Radio Systems

ASI6000 accessories: Radio Systems and Audioscience have created wiring break-out-box accessories for the new ASI6000 series multichannel PCI audio cards. Cables are also available to allow the use of the B.O.B. with the ASI4300 series. The rack mount units, available in XLR and RJ-45 versions, allow users convenient and dependable access to all channels of card analog and digital I/O, as well as clocking and sync signals. One simple multipin connector connects the unit to the audio card. A single B.O.B. is all that is required for access to all card digital I/O or as many as four analog channels, while multiple B.O.B.s can be ganged when access to all eight stereo analog input and output channels is needed.

856-467-8000; fax 856-467-3044; www.radiosystems.com; sales@radiosystems.com

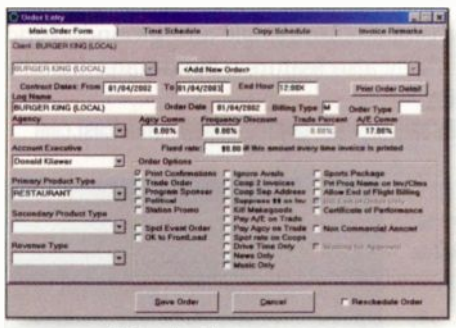
Amplifier
OMB America

EM 1000 S: Through high efficiency heat sink, the cooling system allows a working altitude as high as 13,000 feet. In conjunction with the low-voltage power supply, without dangerous voltages accepting variations from 180VAC to 240VAC, a divider and combiner using a Wilkinson Coupling System between modules allows it to work without interruptions. With 4,3,2 or 1 D.A. modules it is easy to replace in few minutes. The rack is included and is adjustable from 0 to 1,000W. A 30W exciter is also included. Features include an alarm system (microprocessor), easy access to its components, a built-in low-pass filter, heavy-duty construction and a spike supressor.

305-477-0974; fax 305-477-0611
members.aol.com/OmbRadioTV

Commercial traffic software
Broadcast Data Consultants

Traffic C.O.P. for Windows: The Traffic C.O.P. for Windows for traffic software includes a full-featured Windows, traffic and billing system from order entry to log scheduling and A/R. It offers password security. Customer support is available: no voice mail, no answering machines. There are no extra charges for updates to the software; they are included in support. This software runs on a computer network and exports to an automation system with full control over cart numbers and copy.



800-275-6204; fax
www.broadcastdata.com
bdc@broadcastdata.com

Transmitter reseller
Transcom

Pre-owned transmitters: This company provides used AM and FM transmitters and is a manufacturer representative for new antenna, cable, STL equipment and audio equipment.

800-441-8454; fax 215-938-7361; www.trcorp.com; transcom@amfmtv.com

Modular audio console
Autogram

Pacemaker II Model PM228: This model features modern styling and color with wood end trim, a bimodular concept, all dc control and screw-type plug-in connectors. It uses similar switches and the same Penny & Giles pots as the original Pacemaker. As many as 60 stereo inputs are available. Its modular design allows the user to start with the number of modules needed and expand as needed. The console is easy to install and change after installation.

800-327-6901; fax 972-423-6334
www.autogramcorp.com
sales@autogramcorp.com

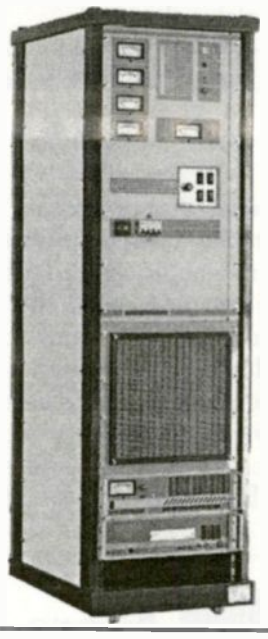
Loudspeaker
Electro-Voice

SxA100: This bi-amped two-way, 12-inch box features a high-quality mic preamp, limiter and dynamic filtering. Designed for end-users the loudspeaker is useful in portable sound reinforcement applications, including music. It is fully-contained and an easy-to-use option for lecturers, teachers, duo and solo acoustic acts, small jazz groups, seminars, business presentations and remote broadcasts. The loudspeaker requires little professional audio experience to operate.

800-392-3497; fax 952-887-5588
www.electrovoice.com; pro.sound@telex.com

Superior Broadcast Products

FM Transmitters
All Power levels 20 watts to 30,000 watts
100% Solid State or Grounded Grid



Grounded Grid Models Feature
- Solid State High Performance Exciter
- Solid State Driver
- Ease of Installation
- Fast Delivery
- Motor Driven Tuning
- Complete Front Panel Metering
- Low Pass Filter
- Soft Start Up
- Cost Effective Pricing
- Financing Available
- LED Read out on front panel shows operating parameters

Solid State FM Transmitters
Featuring the latest Cold Mos fett Design
Models range from 20 watts to 10,000 watts

20 watt Exciter	850.00
100 watt Transmitter	2,000.00
250 watt Transmitter	3,000.00
350 watt Stereo Transmitter	3,500.00
500 watt Transmitter	4,000.00
1,000 watt Transmitter	7,000.00

Many other models to choose from

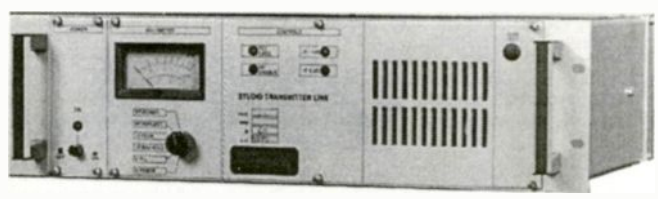
Transmissions Line
Superior Broadcast Products offers a wide range of transmission line and accessories

1/2 inch Foam Coax as low as	$1.40 per foot
7/8 inch Foam Coax as low as	$3.50 per foot
1 5/8 inch Foam Coax as low as	$8.50 per foot
2 1/4 inch Foam Coax as low as	$12.00 per foot

Call for prices on other sizes

High Performance Digitally Synthesized FM Exciter

Studio to Transmitter Link
Frequency Agile Composite Transmitter and Receiver



Both Transmitter and Receiver $3,500.00

Transmitter	Receiver
10 watt output	Active band pass filter
Stereo or Mono	Full Metering
Full Metering	Fast Delivery
Two SCA inputs	Two SCA outputs

One year limited warranty

FM Antennas
Power Levels from 500 to 20,000 watts per bay

One bay	500 watt input	495.00
Two bay	500 watt input	1,200.00
Four bay	2,000 watt input	1,990.00
Six bay	3,000 watt input	3,500.00

Broadband Medium Power

Two bay	3,000 watt input	2,400.00
Three bay	3,000 watt input	3,400.00
Three bay	10,000 watt input	4,000.00
Four bay	3,000 watt input	4,400.00
Four bay	10,000 watt input	4,800.00
Six bay	3,000 watt input	6,250.00
Six bay	10,000 watt input	7,000.00
Eight bay	10,000 watt input	9,500.00

Many other models and power levels

Contact Jimmie Joynt 17194 Preston Road, Suite 123-297 • Dallas, TX 75248
Ph. 800/279-3326 • Fax 800/644-5958 972/473-2577

Modular furniture line
Arrakis

Flex-Studio: This modular furniture package can be quickly shipped from stock for fast on-site assembly in dozens of ways to meet nearly any studio design. It can be assembled left- or right-handed, as well as in all standard configurations: short L, long L and unbalanced U. All pedestal returns have front equipment racks and rear access doors. The table pedestals have inside and outside access doors. The table top equipment pod provides rack mount space for table top equipment. A 60-inch interview table is standard and designed to be placed on any 60+ inch outer edge of the studio. The console table is 36-inches deep and 45-inches wide to accommodate most consoles. A 37-inch inside width, console spanning, copy stand completes the package.

970-461-0730; fax 970-663-1010; www.arrakis-systems.com; sales@arrakis-systems.com

Remote control interface
Syntrillium Software

Red Rover: Adding functionality and ease-of-use to the latest version of Syntrillium's Cool Edit Pro, this multi-track remote control interface provides a dedicated remote control that operates seamlessly with the software package. This product is a USB device that features standard multitrack transport controls that seamlessly interact with and control Cool Edit Pro's on-screen displays. In addition, the control unit provides unlimited access to all 128 tracks of possible audio on Cool Edit Pro.

888-941-7100; fax 480-941-8170; www.syntrillium.com; sales@syntrillium.com

Tube and solid-state transmitters
Superior Broadcast

FM Transmitter Line: The 120W PM120 and 300W PM300 solid-state transmitters are rack-mount units with frequency-agile tuning in 10kHz steps across the FM band. The KAFM series, available in 2.5kW and 3kW models, uses a single tube design and occupy a space that is only 22 inches x 30 inches in a package that is 5-feet tall. The 5kW and 10kW models stand 6.5-feet tall. All the tube transmitters use a single-tube grounded-grid design for low-cost, dependable operation. They also feature a solid-state, digitally synthesized, high-performance exciter and IPA.

800-279-3326; fax 800-644-5958; www.superiorbroadcast.com; jjoynt@superiorbroadcast.com

Isocouplers
Kintronic Labs

FMC-1.9G-PCS and FMC-2.4G-SS: These isocouplers are designed for mounting cell phone antennas and wireless Internet antennas on hot AM towers. The model number specifies the frequency range of the product for use with each particular service. Typical VSWR is less than 1.3:1. Insertion loss is less than 2dB.

423-878-3141; fax 423-878-4224
www.kintronic.com; ktl@kintronic.com

Digital audio program logger
Broadcast Software International

Skimmer: A new audio capture software program, Skimmer is great for sampling jocks or any other kind of air check. This logger can record as much as a year of audio, with any minute of any day instantly accessible. The program records all audio by time segments, allowing users to check any second of any hour. Users can also compile and export different hours to create "best of" shows or to export small clips for promos. Media tracking services will also find this logger useful for verifications. It will record in a loop, so that once a drive is full, the oldest files will be erased to make room for new ones.

888-BSI-USA1; fax 541-338-8656; www.bsiusa.com; info@bsiusa.com

Where can you find our professional portable audio gear?

442

Dave Ruddick's abused 442 field mixer, along with his MIxPre and MM-1, are still warming up after spending weeks at altitude and frigid temperatures on Mt. Everest for National Geographic. Dave relied on the Infinitely flexible 442 as the centerpiece of his field recording kit for this once-in-a-lifetime production. The 442 mixer has rapidly become the most sought after field mixer available.

USBPre®

The USBPre two-channel mic preamp and digital audio interface won't be voted off the island anytime soon. Russ Landau, composer for the CBS mega-hit show, Survivor, depends on the portable USBPre for every episode - from the South China Sea, to the Tahitian Island of French Polynesia - for crystal clear digital audio ready for editing.

MixPre

If there were a competition for "Best Portable Mic Preamp" our two-channel MixPre and our MM-1 would have won gold. If you tuned into to this year's Olympics in Salt lake City, there's a good chance that what you were hearing passed through Sound Devices MixPres and MM-1s.

Of course, you can always find our gear at www.sounddevices.com

SOUND DEVICES

IT PAYS TO KNOW WHO LIVES NEXT DOOR

ABC Satellite Services realizes just how important the right community is to our customers. That's why we offer all the service, support, flexibility and technology you could ever need under one roof.

abc SATELLITE SERVICES

For more information on how you can live next door call: 212-456-5801
or visit our website: www.abcsatelliteservices.com

More innovative solutions...

Thermal Sentry III — model tsn-3
monitors transmitter operating temperature
analog output for remote monitoring
programmable alarm output with relay
front panel adjustments and LED display
two air temperature sensors included
indicates failed or clogged ventilation system
early warning for antenna icing conditions

Time • Temperature • ID — model tti-2
time and temperature delivery for automation
60 seconds of user recordable storage
automatically varies message delivery
professional male announcer voice
temperature in Fahrenheit or Celcius
battery backed AC synchronized clock
digital message storage - no moving parts

Dialup Audio Interface — model dai-2
perform unattended remote broadcasts
DTMF operated controller with relay outputs
fully programmable output on any key press
momentary and/or maintained relay outputs
four logic inputs with programmable output
balanced audio input and output with ALC
seven DPDT relays and one 4PDT relay

innovative solutions Sine Systems, Inc.
nashville, tennessee • 615.228.3500 voice • 615.227.2393 fax-on-demand • www.sinesystems.com

Satellite spectrum analyzers
AVCOM of Virginia

PSA-45 series: These spectrum analyzers are redesigned to incorporate a high-contrast LCD and battery power in an eight-pound package. Frequency coverage is 950MHz to 1,450MHz (L-band), and selectable LNB power (+12V/off/+18V) is provided through the input connector. The series includes two models: the PSA-45A and PSA-45B. The PSA-45A was designed for the inexperienced technician, with fixed span (950MHz-1,450MHz). The power switch and LNB power selector (+12V/off/+18V) plus soft keys for backlight and contrast adjustment are the only controls. The PSA-45B adds adjustable span and center frequency tuning. Amplitude can be displayed in dBm or dBmv. A ride peak function tracks peak amplitude; manual cursors allow non-peak amplitude measurements. The ac power supply accepts 85VAC to 264VAC.

804-794-2500; fax 804-794-8284; www.avcomofva.com; sales@avcomofva.com

Broadcast supplier
Full Compass Systems

Equipment Dealer: Since 1977, Full Compass Systems has supported individuals and industries with products and services to fulfill their audio, video and lighting requirements. It offers sales, design, repair and rental services. The company represents and sells more than 600 lines of equipment for sound reinforcement, audio and video, recording, acoustical treatment, special effects lighting and video security. Design and installation capabilities range from simple paging and background music systems to applications requiring acoustical analysis and computer-assisted design and simulation. Clients include religious, commercial, musical, theatrical, institutional, governmental and residential users.

800-356-5844; fax 608-831-6330
www.compassxpress.com

Complete product line
Zero Cases

Cases and enclosures: A wide variety of cases and enclosures in many sizes and styles are available. The carrying cases are constructed from deep-drawn, aircraft-quality aluminum. Naturally lightweight and strong, these cases are weather and dust proof. The instrument cases are made from the same aluminum and feature seemless shells. The 19-inch rack enclosures are designed for mobility and strength while protecting the contents inside. The shipping transit cases are available in plastic and aluminum.

800-416-9025; fax 801-299-7350
www.zerocases.com; sales@zerocases.com

POTS codec
Tieline Technology America

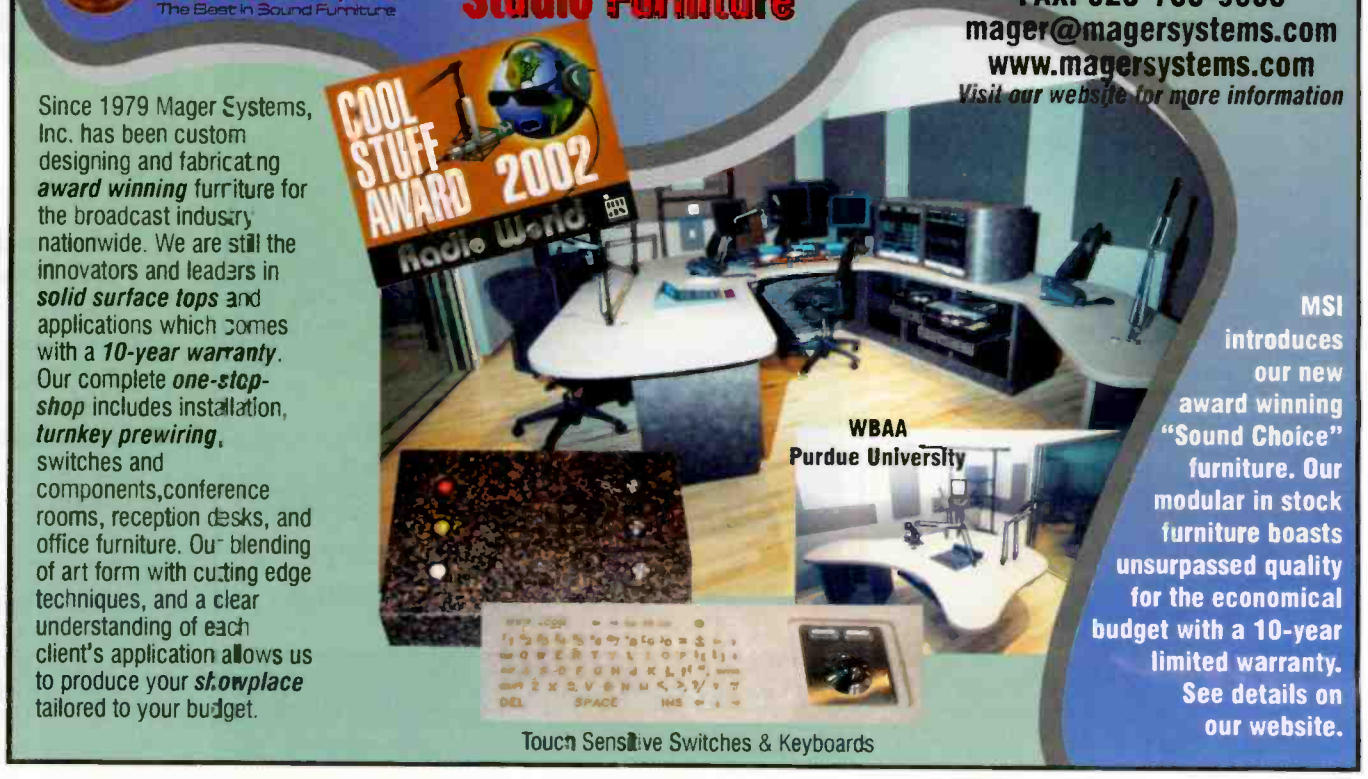
Patriot: Useful for live broadcasting, this codec offers clear bi-directional 15kHz audio plus data through standard telephone lines. It features mobile telephone connectivity, two adjustable mic/line and unbalanced audio inputs, headphone monitoring, bi-directional low-rate data transfer, a line quality visual display, an audio level indicator, high-level remote control and intelligent gain control.

317-259-8000; fax 317-259-8040
www.tieline.com; sales@tieline.com

Interconnection supplies
RAM Broadcast Systems

Wire and Cable: Analog audio and control, digital audio and control, microphone and speaker cables are offered by RAM's Wire and Cable division. Available in several configurations of conductor size and quantity, a model exists for almost any radio station need. In addition, the company offers a line of patch bays and punch blocks.

800-779-7575; fax 847-487-2440; www.ramsyscom.com; sales@ramsyscom.com



Tube mic preamp
Aphex Systems

207: Built on the foundation of the Aphex 107, including the Reflected Plate Amplifier tube circuit, the 207 adds the Aphex Miclim circuit. This preamp is a two-channel tube microphone preamplifier and instrument direct interface. The Reflected Plate Amplifier is a true vacuum tube circuit without the heat, fragility, sonic variability,)short life and high-frequency roll-off of conventional tube designs. The power LED glows orange while the tube circuit is stabilized and all dc is eliminated (ensuring no turn-on thump, which can seriously harm loudspeakers). When the LED turns green it is ready for performance. Additional features include two independent channels, microphone and instrument inputs on each channel, 20dB to 65dB of continuously variable gain, switchable 48V phantom power with ramp-up feature, input polarity reverse, 20dB pad and low-cut filter switches, LED headroom meter display for each channel, switchable -10dBV/+4dBu operating level, balanced XLR and 1/4-inch I/O.

818-767-2929; fax 818-767-2641; www.aphex.com; sales@aphex.com

Headphone amp
Sound Devices

HX-3: This headphone distribution amplifier provides three stereo headphone feeds with individual level controls from line level sources. Producing high headphone levels with low noise and distortion, it is designed for music, television, radio and film production applications. The audiophile-quality, battery-powered amplifier is flexible, accepting balanced XLR line-level inputs or unbalanced 1/4-inch and 1/8-inch stereo inputs. Its 1/4-inch loop-out can connect multiple amps for additional headphone outputs. Headphones are connected to panel-mounted 1/4-inch stereo connectors. The amplifier offers an aluminum chassis to withstand a field or studio environment. The unit is powered by two internal AA batteries or an external 5 to 17vdc source.

608-524-0625; fax 608-524-0655; www.sounddevices.com; info@sounddevices.com

Switcher/routers
Broadcast Tools

16x1 and 16x2: These stereo audio switcher/routers passively switch or route electrical signals to a single destination. The switcher/router provides passive switching through gold contact relays, meaning that the unit can route a signal in both directions (any one of 16 stereo inputs to a single destination, or a single source to any one of 16 destinations). The switcher/router is controlled by front panel switches and may be controlled with contact closures from the rear panel 37-pin male D-sub connector or the multi-drop RS-232 serial port. Product features include selection of any source that is active at power-up or the last source selected; audio mute, which allows the user to turn off the audio output when activated; an enable switch that provides a safety lock to the front panel source selection switches; an audio activity circuit that displays any audio activity at the output; an open collector transistor is provided for remote monitoring, remote status as a sustained open collector when the associated channel is selected; a programmable step input-providing a means of stepping though each source or automatically stepping through selected channels with timing rates from one to 999 seconds; and a multi-drop RS-232 serial port, allowing operation from a computer's serial port.

877-250-5575; fax 360-854-9479
www.broadcasttools.com; bti@broadcasttools.com

Microphone
Neumann

TLM 103 Monolith: The 500-piece limited TLM 103 Monolith series features a black glossy lacquer finish. The large diaphragm Monolith shares the standard TLM 103's audio characteristics and boasts the same transformerless circuit found in numerous Neumann microphones. Further, it features low self-noise ingeniously coupled with high sound pressure level transmission.

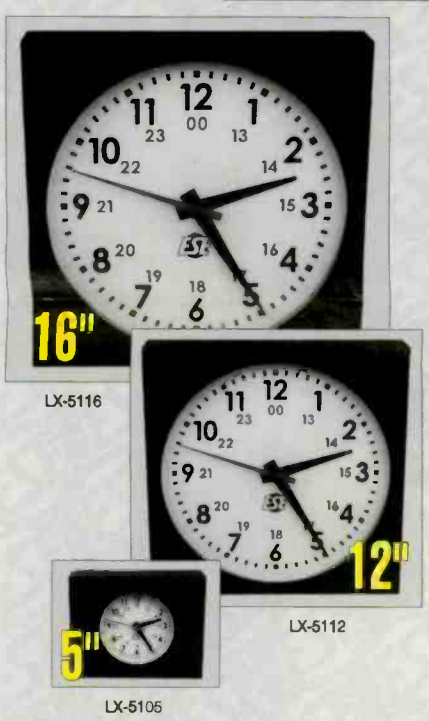
860-434-5220
fax 860-434-3148
www.neumannusa.com
neumlit@neumannusa.com

Multitone analyzer
NTI (Neutrik Test Instuments)

RT-2M: This multi-tone analyzer may be integrated in network administration systems and can be remote controlled. The analyzer allows the testing and quality control of audio program channels while on air. The short (160ms to 960ms) multitone burst may be used as time tone, or be inserted into the program for minimum notice. Multitone testing with RT-2M gives the broadcast engineer complete performance tests with plots of level, distortion, noise, phase and crosstalk vs. frequency. The transmitting and receiving Rapid Test handle the 50µ pre-emphasis and de-emphasis required by the CCIR standard. Test signals are resistant against enhancement and compression. The receiving device captures, stores and sends back the test results to the transmitter where data is analyzed.

800-661-6388; fax 514-344-5221
www.nt-instruments.com; info@nt-instruments.com

ANALOG CLOCKS
"5100" Series



The LX-"5100" Series can read Time Code (ESE, SMPTE/EBU & ASCII), as well as operate as Stand-Alone or Impulse Clocks. These clocks are loaded with many features, here's just a few...

FEATURES:
- Self-setting time code readers
- 5", 12" & 16" models
- Sweep & Step second hand modes
- Lighted Dial and Rack Mount options
- Time Zone Offset
- 3 Year Warranty

ESE
www.ese-web.com
310-322-2136 • FAX 310-322-8127
142 SIERRA ST., EL SEGUNDO, CA 90245 USA

RECEIVERS

OUTSTANDING specifications and pricing on professional quality receivers for **EAS**, monitoring and translators.

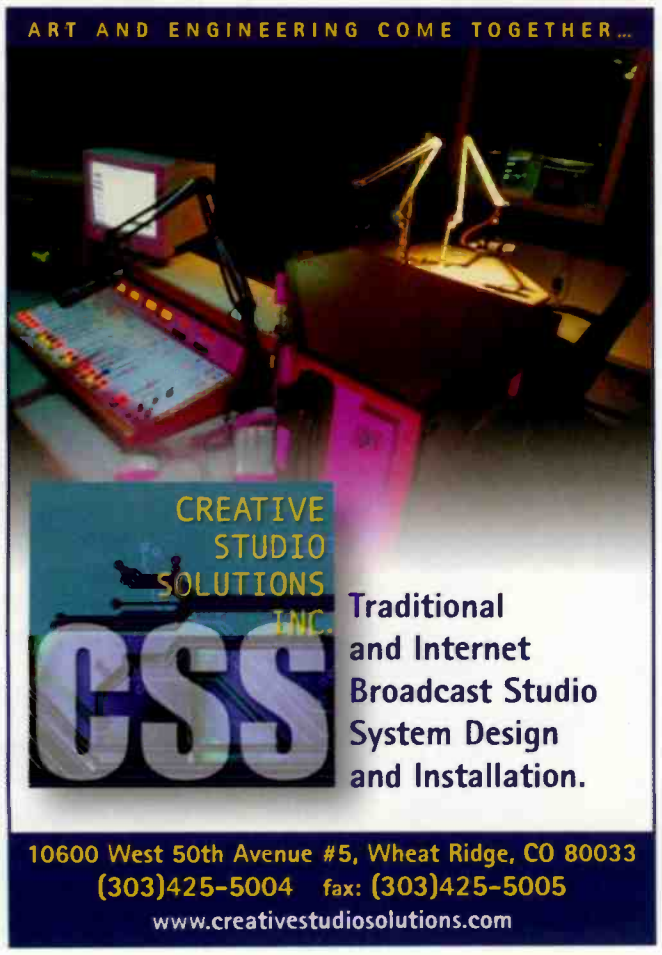
The **AFC3** is a three receiver rack mount that is configured to your **EAS** or monitoring specific application. Each receiver has internal frequency selection (PLL) switches, front panel controls and indicators, and rear panel connections.

Price: Approximately $1000 (depending on receiver choice)

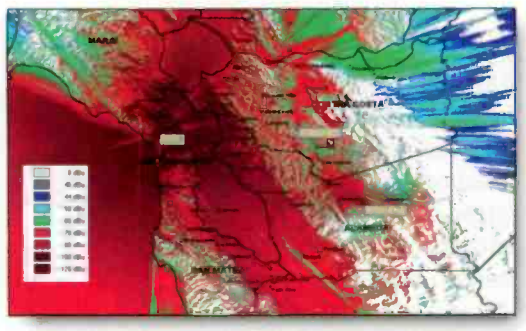
Select three receivers from our FM or FM/SCA, NOAA Weather, Public Service and/or AM Monitor/Receivers. All receivers are PLL (synthesized) designs using the latest state of the art components and are available as stand alone receivers as well as in AFC3 combinations.

DAYTON INDUSTRIAL CORPORATION
2237 Industrial Blvd., Sarasota, FL 34234 Tel. (941) 351-4454
Email: SCARadio@aol.com WebSite: www.DaytonIndustrial.com

Quality Receivers Designed and Manufactured in the USA since 1980



Site analysis software
RadioSoft



ComStudy 2.2: Features of this software include TIA-TSB 88 frequency coordination compliance, area reliability analysis and mapping for any propagation model, transmitter matrix library import and export feature, individual station matrix editing and recalculation, increased accuracy, 32-bit operation for Windows and a 256-color palette for contour and coverage mapping. This software offers fully integrated transmitter databases, automatic interference calculations, area reliability studies, fast calculations and real-time 3D displays. All FCC, TIA and ITU procedures are included. APCO coordination is standard.

888-RADIO95; fax 386-423-0821; www.radiosoft.com; pmoncure@radiosoft.com

24-bit AES I/O
Moseley

Starlink SL9003Q upgrade: The Starlink SL9003Q features a 24-bit AES I/O for a transparent STL link. A dynamic range of better than 144dB for four 16-bit linear audio channels and two data channels is possible over 335MHz-1525MHz STL channels. AES3 I/O, combined with a built-in variable rate converter, provide easy connection to an all-digital air chain. Plug-in MPEG audio modules and a digital multiplex allow for additional program, voice, FSK async and sync data channels. A high spectral efficiency is achieved by user-selectable 16, 32 or 64 QAM. Reed-Solomon error correction, coupled with a 20-tap adaptive equalizer, provide signal robustness in hostile RF environs. An ultra-linear 2W average transmit power out is achieved with redundant RF power modules.

800-661-6388; fax 514-344-5221
www.nt-instruments.com; info@nt-instruments.com

Digital/analog AM transmitters
Harris

DAX-5/6: These transmitters are the first in a dynamic family of 1kW to 6kW AM transmitters designed to provide analog and IBOC performance. The transmitters are designed to provide exceptional linearity and wide bandwidth to deliver a clean analog sound. This design also provides a highly accurate reproduction of the IBOC signal.

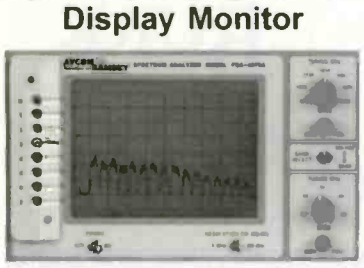
800-622-0022; fax 513-459-3890
www.harris.com; broadcast@harris.com

Professional audio facilities
Creative Studio Solutions

System integration: A designer and installer of professional audio facilities, CSS houses a full turnkey operation from design to completion. Focusing on traditional and Internet broadcast, production and recording studios, the company also creates custom audio racks, remote broadcast and recording packages that are tested, then shipped to the client's facility for installation. Being certified installers of major consoles and audio manufacturers as well as dealers for professional audio equipment, it is a one-stop-shop for those seeking studio options.

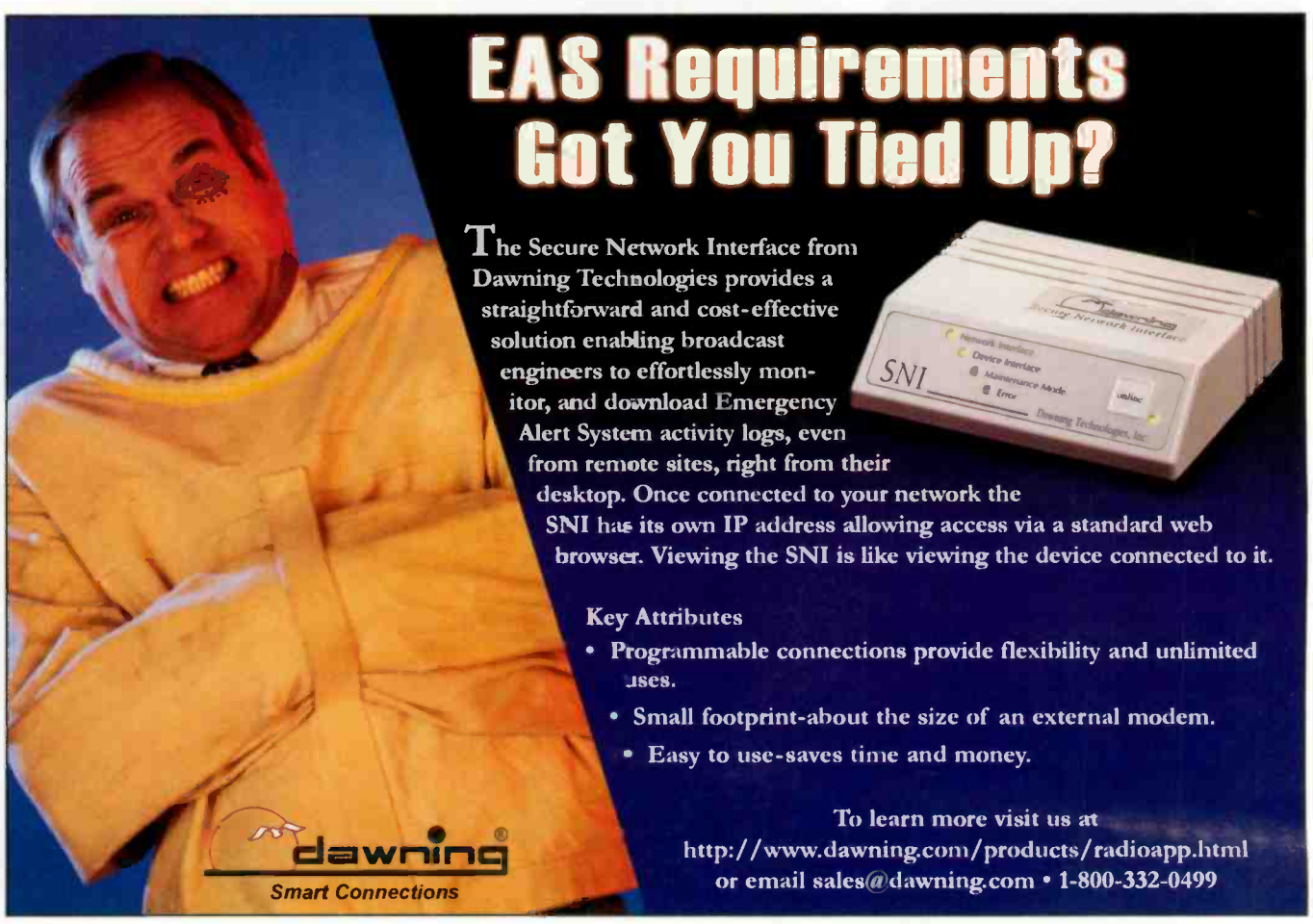
303-425-5004; fax 303-425-5005
www.creativestudiosolutions.com; info@creativestudiosolutions.com

New! PSA - 4570A
Spectrum Analyzer and Display Monitor



Avcoms' new PSA-4570A allows the optimum use of rack mount space in mobile communication vehicles. In the 950-1450 MHz position, the PSA-4570A displays L-Band satellite signals. With precise center frequency tuning the PSA-4570A enables quick satellite identification and rapid antenna alignment. Software selectable LNB frequency offsets aid the operator to quickly identify transponders. With a flip of a switch you can monitor the 50-90 MHz uplink exciter or receiver IF frequencies with a resolution bandwidth of 1 MHz or 300 KHz. The PSA-4570A uses the latest 1/4 VGA display and microprocessor technology. Convenient function keys enable rapid option selection. Memory store and recall functions allow saving satellite "footprints" for future evaluation. The PSA-4570A comes with a 15 month warranty.

AVCOM RAMSEY Technologies, Inc. 500 Southlake Blvd Richmond, VA 23236
www.avcomramsey.com
(804) 794-2500 (804) 794-8284 Fax
email: sales@avcomramsey.com
Bringing High Technology Down To Earth



Audio switcher/mixer

Sine Systems

ACU-1: An 8×1 audio switcher/mixer with extensive control capabilities via RS-232 data. The simple ASCII command structure allows for rapid development of powerful "one-off" customized automation systems. The system also incorporates silence sensors, parallel logic inputs, control relays, clock/calendar and temperature-sensing capabilities. Front-panel indicators include left and right VU meters, channel selection indicators and left and right silence alarm status indicators. Rear-panel screw terminals are mounted on removable connector boards for easy installation and removal.

615-228-3500; fax 615-227-2367
www.sinesystems.com; info@sinesys.com

Analog monitor

ATI

AMM200: This analog monitor is a full-featured stereo line amplifier and monitor providing balanced XLR line inputs and amplified outputs, stereo headphone drivers and a stereo LED meter. The bright two-color LED meters are switchable for measuring line input or output levels. Meter ballistics can be switched for peak or average response. Meter range covers -15dB to +12dB in 10 3dB steps. Switched rear-panel RCA jacks allow external self-powered speakers to be controlled from the headphone amplifiers.

215-443-0330; fax 215-443-1394; www.atiguys.com; sales@atiguys.com

RF power amplifier

Silicon Valley Power Amplifiers

10/1000: This power amplifier produces 1kW of output power from a 10W input. The higher gain is achieved by adding a pre-amp stage, which then drives two of SVPA's 500W power amplifier modules. The pre-amp is a version of the 150W module (010-150CP) and in this application is only required to supply a maximum of 40W, so this module is just coasting at the maximum 10/1,000 output power. The 500W modules are identical to the SVPA 700W modules except they use an aluminum base plate instead of copper. They are internally pre-set for a maximum of 575W output, so they are operating well within their potential no matter how hard or how long the amplifier is operated. The power amplifier uses a switch mode power supply that has power factor correction and will put out a steady 48V as long as the ac line voltage is between 165 VAC and 265 VAC, keeping the output power of the amplifier constant despite any line voltage fluctuations. This power amplifier is self-contained and need only be connected to the exciter, antenna and ac power to be put into service. At 70lbs. it transports and installs easily.

800-986-9700; fax 408-986-1438; www.svpa.com; sales@svpa.com

Solid-state retrofit

Continental Electronics

Dual IPA upgrade: Parallel dual redundancy keeps the station on the air if a module fails in the IPA. Using two combined modules isolates the IPA from the PA grid at warm up. It greatly reduces the cost of repairs in the unlikely event of module failure, and modules can be repaired in the field using common parts. A better bandwidth, and AM noise performance improves FM stereo and SCA performance. Stations can install the IPA upgrade kit. The kit includes full installation and operation instructions.

800-733-5011; fax 214-381-3250
www.contelec.com; sales@contelec.com

YOUR SOURCE FOR QUALITY AM ANTENNA SYSTEMS AND ACCESSORIES

KINTRONIC

MasterCard LABS, Inc. VISA

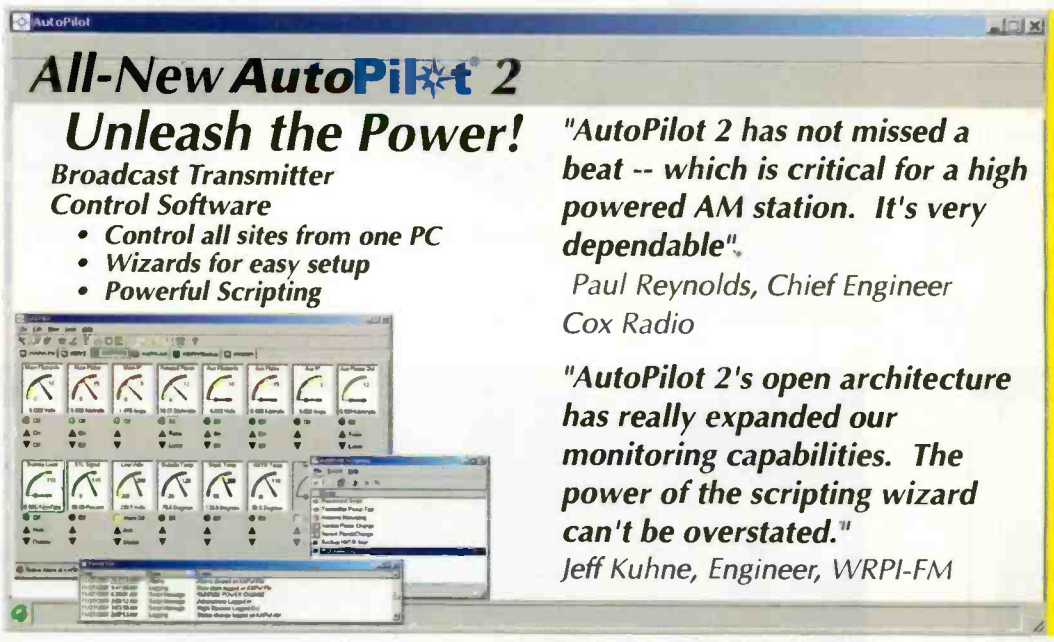
ALUMINUM PREFAB BUILDING WITH 2 X 30LW AM DIPLEXING EQUIPMENT INSTALLED

SCVS/WFAN Aux Tower
New York, NY

AM BROADBAND DIPLEXER INSTALLATION

WGRV / WSMG Radio
Greeneville, TN

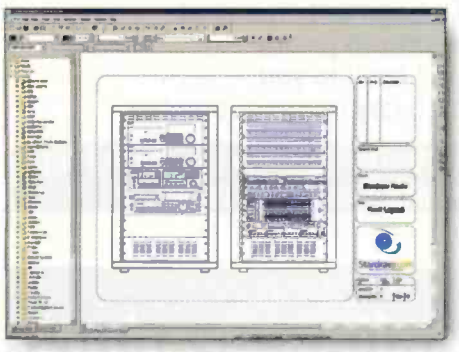
ONLINE SHOPPING NOW AVAILABLE!
www.kintronic.com
Click On LOGIN**
Click On SHOPPING
** PRIOR APPROVAL IS REQUIRED FOR ACCESS



2002 Product Source

Radio™
THE RADIO TECHNOLOGY LEADER

Engineering software
Stardraw.com



Stardraw Radio: This is a CAD program designed for the needs of radio stations without the cumbersome and unnecessary features found in more complex CAD programs. The application boasts a library of more than 10,000 industry specific symbols, proven drawing tools, full DWG compatibility and advanced reporting facilities. Regular updates add hundreds of new symbols and a new program feature every month. Existing symbols can be edited and modified as needed.

212-672-1855; fax 212-372-8798
www.stardraw.com; information@stardraw.com
information@stardraw.com

IBOC DAB exciter
Nautel

NE IBOC Digital Exciter: Produced under license from Ibiquity Digital, this exciter tunes within the AM and FM bands to provide an Ibiquity IBOC signal. Supplementary

data services are also supported. This exciter allows predistortion of magnitude and phase of the individual IBOC subcarriers to correct for transmission system variations. The exciter's system time can be synchronized to an external precision GPS time reference. Purchasers will be required to obtain a license from Ibiquity Digital to use the exciter's resident IBOC software.

207-947-8200; fax 207-947-3693
www.nautel.com; info@nautel.com

Broadcast supplier
Bay Country Broadcast Equipment

Equipment Dealer: This broadcast equipment dealer offers a 15-day return guarantee. In its fifth year of business, the company offers new and used equipment and also rents test equipment. The company's website includes a list of recent used equipment offerings as well.

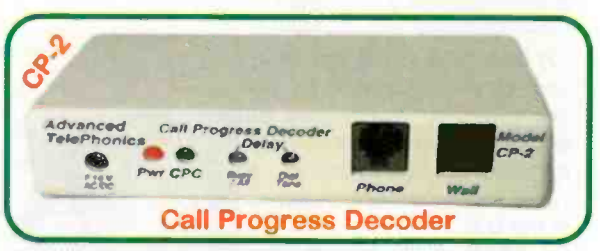
877-722-1031; fax 410-335-3136
www.baycountry.com; info@baycountry.com

	Page Number	Advertiser Hotline	Advertiser Website
ABC Radio Network	30	212-456-5801	www.abcsatelliteservices.com
Acoustic Systems	22	800-749-1460	www.acousticsystems.com
AEQ	31	954-581-7999	www.aeqbroadcast.com
Altronic Research	34	800-482-5823	www.altronic.com
Aphex Systems	25	818-767-2929	www.aphex.com
Armstrong Transmitters	24	315-673-1269	www.armstrongtx.com
Arrakis Systems	6, 26, 33	970-224-2248	www.arrakis-systems.com
ATI Audio Technologies	36	800-959-0307	www.atiguys.com
Autogram	37	800-327-6901	www.autogramcorp.com
Avcom Ramsey	33	804-794-2500	www.avcomramsey.com
Bay Country	36	410-335-3136	www.baycountry.com
Broadcast Data Consultants	36	800-275-6204	www.broadcastdata.com
Broadcast Electronics	22	817-735-8134	www.bdcast.com
Broadcast Software International	28	888-BSIUSA1	www.bsiusa.com
Broadcast Tools	12	360-854-9559	www.broadcasttools.com
Burk Technology	34	800-255-8090	www.burk.com
Circuitwerkes	35	352-335-6555	www.circuitwerkes.com
Clear Channel Satellite Services	28	800-345-8728	www.clearchannelsatellite.com
Coaxial Dynamics	28	216-267-2233	www.coaxial.com
Comrex	7	978-784-1717	www.comrex.com
Comrex/Broadcasters General Store	23	352-622-7700	www.broadcastdealer.com
Continental Electronics	28	800-733-5011	www.contelec.com
Cortana	37	888-325-5336	
Creative Studio Solutions	32	303-426-5004	www.creativestudiosolutions.com
Danagger Audio Works	37	888-892-8346	www.danagger.com
Dawning Technologies	33	800-332-0499	www.dawning.com/products/radioapp.html
Dayton Industrial Corporation	32	941-351-4454	www.DaytonIndustrial.com
DPA Microphones	24	519-745-1158	www.dpamicrophones.com
Electronic Associates	31	915-595-3103	www.elecassoc.com
ERI-Electronics Research	37	812-925-6000	www.ERIinc.com
ESE	32	310-322-2136	www.ese-web.com
Full Compass	8	800-356-5844	www.fullcompass.com
Gorman-Redlich Mfg. Co.	37	740-593-3150	www.gorman-redlich.com
Harris Corp. Broadcast Div.	3, 17	800-622-0022	www.broadcast.harris.com
Inovonics	13	831-458-0552	www.inovon.com
Kintronic Labs	34	423-878-3141	www.kintronic.com
Klotz Digital America	5	678-966-9903	www.klotzdigital.com/america
Logitek	27	800-231-5870	www.logitekaudio.com
Mager Systems	12, 31	623-780-0045	www.magersystems.com
Mediatouch	10	888-665-0501	www.omt.net
MIJO Corporation	18	877-708-7768	www.slingspot.com
Nautel Electronics	11	902-823-2233	www.nautel.com
Neumann Microphones	27	860-434-5220	www.neumannusa.com/103BER
Neutrik	18	800-661-6388	www.nt-instruments.com
Nott Ltd.	37	505-327-5646	www.nottltd.com
OMB America	16	305-477-0973	www.omb.com
Orban	14	510-351-3500	www.orban.com
Patriot Antenna Systems	20	800-470-3510	www.sepatriot.com
Pristine Systems	37	866-240-6497	www.pristinesys.com
Propagation Systems	36	814-472-5540	www.psibroadcast.com
Prophet Systems	19	877-774-1010	www.prophetsys.com
Radio Computing Systems	21	914-428-4600	www.rcsworks.com
Radio Soft	22	888-RADIO95	www.radiosoft.com
Radio Systems	24	856-467-8000	www.radiosystems.com
RAM Broadcast Mfg.	20, 26, 36	847-487-7575	www.ramsyscom.com
RF Parts	37	800-737-2787	www.rfparts.com
Sine Systems	30	615-228-3500	www.sinesystems.com
Sound Devices	30	608-524-0625	www.sounddevices.com
Spacewise	36	800-775-3660	www.spacewise.com
Stardraw	6, 36	+44-2072-038395	www.stardraw.com/beradio
Superior Broadcast Products	29	800-279-3326	www.superiorbroadcast.com
Syntrillium Software	9	888-941-7100	www.syntrillium.com
Telex Communications	15	800-392-3497	www.electrovoice.com
Ten-Tec	27	800-231-4482	www.tentec.com
TieLine Technology	26	888-211-6989	www.tieline.com
Transcom Corp.	36	800-441-8454	www.fmamtv.com
V-Soft Communications	36	800-743-3684	www.v-soft.com
Wheatstone	2, 39, 40	252-638-7000	www.wheatstone.com
Zero Manufacturing	27	800-547-3960	www.zerocases.com

Telephone Solutions by CircuitWerkes

The HC-3 Hybrid Telephone Autocoupler

- Auto-connect and disconnect.
- LED Indicators for incoming rings /on-line status & power.
- Answers on user selectable number of rings.
- Momentary or latching dry contacts at pickup.
- Simple, active hybrid with active, balanced, In/Out for simultaneous send & recieve communications.
- Remote connections include: aux. relay closure, pickup-enable, remote pick up trigger, call end sink, & Ring / Online sink.
- Optional ComboLok provides password security.



Call Progress Decoder

- Automatically disconnects auto-answer couplers and hybrids when phone calls are over.
- Works with most analog ports and POTS lines.
- Decodes standard dial and busy tones
- CP-1 fits INSIDE CircuitWerkes boxes. The CP-2 (shown) can disconnect most analog couplers.

Get up to a Dozen Couplers in One Chassis

The AC-12 Telco Autocoupler Bank

- Auto-answer on user-set ring # and auto-disconnect.
- 2 audio busses for mass feeds.
- Individually card selectable buss or auxilliary audio I/O.
- The aux. audio jack is ideal for multiple IFB feeds, etc.
- Momentary or latching dry contact outputs at pickup.
- Remove & install cards without affecting the rest.
- LED indicators for ring, clipping, power & online.

The Telco-6 Ringer Interface

- Accepts up to six independant telephone lines.
- Each incoming ring closes the associated relay.
- Each relay has *two sets* of form "c" contacts.
- All interface connections on screw terminals.

Call your favorite dealer or visit our web site for the latest info and downloadable tech manuals!
http://www.circuitwerkes.com (352) 335-6555 \\ fax 380-0230
CircuitWerkes 3716 SW 3rd Place - Gainesville, FL 32607

CUSTOMIZABLE REAL FURNITURE STUDIO SYSTEMS BY SPACEWISE®

SYSTEMS START AT $2090!

FULL DELUX AS SHOWN $4395!

- FULL SIZED QUALITY WOODSHOP FURNITURE!
- HARD LAMINATED & BULLNOSED 1½" COUNTERS!
- EASILY CUSTOMIZED TO FIT YOUR NEEDS!
- EURO HINGED REMOVABLE ACCESS PANELS!
- PRE ASSEMBLED STURDY BASE COMPONENTS!
- WOOD TRIM AND KICKS! NO PLASTIC MOLDINGS!
- AVERAGE SYSTEMS SHIP IN 5-8 COMPONENTS!
- SHIPPED CRATED FOR FAST, SAFE DELIVERY!

SYSTEMS START AT $2329!

RADIAL AS SHOWN $4540!

"It Fits As Well Into Your Budget ... As it Does into Your Studio"

SPACEWISE®

CALL US TODAY AT 800-775-3660

www.spacewise.com • Info@spacewise.com

AES/EBU DIGITAL AUDIO DISTRIBUTION AMPLIFIERS

DDA106-XLR (1X6) • DDA112-BNC (1X12)
DDA112-XLR (1X12) • DDA124-BNC (1X24)
DDA206-XLR (Dual 1X6) • DDA212-BNC (Dual 1X12)
DXA112-XLR (1x12) • DXA124-BNC (1x24)

- Accepts sample rates from 27 to 96kHz
- Transformer balanced inputs
- Data reclocking and regeneration
- Adjustable input cable equalization
- Loop-thru inputs w/switchable terminations
- Sample rate, Status and Error indicators
- Up to 12 XLR or 24 BNC outputs

ATI AUDIO TECHNOLOGIES INCORPORATED

Dedicated to sound engineering
ATI • 328 W. Maple Avenue • Horsham, PA 19044
800-959-0307 • 215-443-0330
Fax: 215-443-0394
http://www.atiguys.com
Free Brochure Available Upon Request

Welcome to Bay Country BROADCAST EQUIPMENT

Your #1 Source For Quality Used Radio Broadcast Equipment.

View our latest list of equipment on-line at:
http://www.baycountry.com
or call and we will fax it to you.
All equipment sold with a 15 day return guarantee.

7117 Olivia Rd. • Baltimore, MD 21220 • Ph: 410-335-3136 • Fax: 786-513-0812
http://www.baycountry.com • e-mail: baycountry@pcbank.net

View an online product demo whenever you see this logo.

www.beradio.com

The Traffic C.O.P. for Windows™

If your traffic software is being discontinued, now is the time to take a look at The Traffic C.O.P. for Windows.

- ☑ A complete, fully featured, true Windows, traffic and billing system from order entry to log scheduling to A/R.
- ☑ The intuitiveness of Windows. Training has become obsolete.
- ☑ Runs on your computer network, exports to your automation system.
- ☑ Unexcelled Support. With any support option, NEVER a charge for updates.
- ☑ Run up to 256 stations from a single database, separate databases or any combination.
- ☑ Still the same low prices, Still the generous small market discounts

Once you view our FREE CD Demo, we know you will want the software.

No Obligation! See what The Traffic C.O.P. for Windows can do for you!

Call now **(800) 275-6204**

www.broadcastdata.com

...PS I BOC ???

Hey...want to know a secret?

Propagation Systems, Inc.

In Band On Channel Digital Antenna Systems...
Are you ready? We are!!!
Quality Broadcast Antennas For the Digital Future.

FHR & FMR Series

EXCELLENT Bandwidth, Circular Polarization, Center Fed Copper and marine Quality brass, EXTRA Welded **TIG** Construction delivers many years of **SOLID SERVICE.** The entire antenna system including the feeds are pressurized for all weather **service** and **performance**. When you're ready, We are. Contact us for all the details and **GREAT** prices.

Propagation Systems, Inc.

Corporate offices
719 Pensacola Road
Ebensburg, PA 15931 USA
Tel: 814-472-5540
Fax: 814-472-5675

Texas Sales Office
1501 N. Main Ste. D
Cleburne, TX 76033 USA
Tel: 817-645-1700
Fax: 817-202-0600

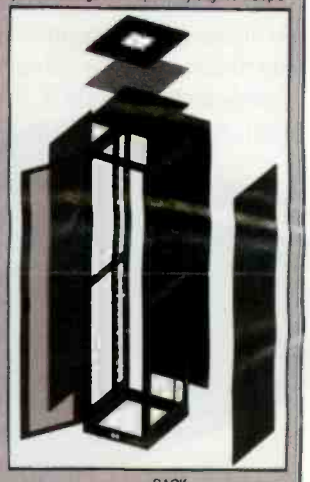
Email: sales@psibroadcast.com
Web site: www.psibroadcast.com

EM1925 / EM1930 / EM1936

19" MODULAR EQUIPMENT RACKS

OUTSTANDING FEATURES

- Basic rack can be used where side panels or doors are not required
- Side panels and doors are easily installed or removed without the use of tools
- Doors can be mounted front or rear, left or right, and can be fitted with locks
- Mounting angles for equipment panels may be positioned for flush or recess mounting at front or rear
- Two or more racks may be bolted together for perfectly-aligned multiple installations



OPTIONAL ACCESSORIES
Mounting Angles
Front/Rear Door
Side Panels
Top Cover
A.C. Receptacle
Plug Mold
Cable Lacing Bar
Copper Ground Bar
Casters

SIZES

	DEPTH	HEIGHT*	WIDTH	RACK UNITS	PRICE
EM1925-44	25 1/2"	82 1/4"	19 1/8"	44	$306.00
EM1930-44	30"	82 1/4"	19 1/8"	44	$354.00
EM1936-44	36"	82 1/4"	19 1/8"	44	$510.00

*Non Standard Racks can be ordered in any height

RAM BROADCAST MANUFACTURING, INC.

US (877) 427-7575 www.ramsyscom.com CANADA (705) 722-4425

Transcom Corporation
AM & FM Transmitters

Visit our new internet site at www.fmamtv.com
Send your email request to: transcom@fmamtv.com

Fine Used AM & FM Transmitters. Authorized Representatives for all major equipment manufacturers. Let us send you a customized quote!

FM TRANSMITTERS

300W	FM	1988	Harris FM 300K Solid State - Single Phase
2.4KW	FM	1995	QEI Quantum Solid. State, Single Phase
2.5KW	FM	1984	Harris FM 2.5K Single Phase
2.5KW	FM	1980	Harris FM 2.5K Single Phase
5KW	FM	1992	Continental 815A
10KW	FM	1974	Harris FM10H/K
15KW	FM	1980	McMartin BF15,000
20KW	FM	1981	Harris FM20K
20KW	FM	1980	Harris FM20H/K
25KW	FM	1980	CSI T-25F
25KW	FM	1987	Harris FM 25K-1
30KW	FM	1983	BE FM 30
50KW Combiner	FM	1982	Harris Combiner w/auto Exciter-transmitter switcher

EXCITERS

- BE FX30
- Harris MX-15
- Harris MS 15

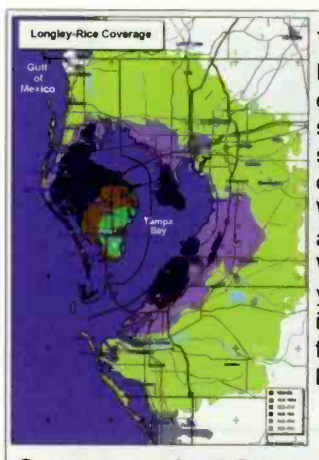
AM TRANSMITTERS

5KW	AM	1980	Harris MW5A
5KW	AM	1978	Harris MW5
10KW	AM	1986	Continental 316F
10KW	AM	1982	Continental 316F
10KW	AM	1982	Harris MW10A
50KW	AM	1982	Continental 317C2
50KW	AM	1986	Nautel Ampfet 50 - Solid State

MISC. EQUIP.

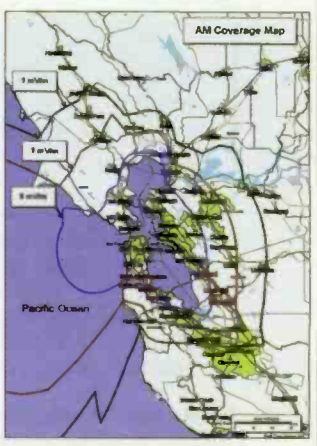
Potomac Ins. AA51 Audio Anyl. (new)
Moseley TRC-15 Remote w/Hallikainen
Mosely TRC 15-A Remote Control System
SCA Generator (MX-15 Module)
Optimod 8100A (card 3 thru 9)
Dummy Load 80kw air-cooled

P.O. Box 26744, Elkins Park, PA 19027
800-441-8454 (215-938-7304) Fax 215-938-7361



You can do it yourself...
Developed over two decades, our AM, FM, TV and DTV software is in constant use by some of the top broadcast engineers in the business. Why? Because it's easy to use and it provides quality results. We have a program for each of your needs from coverage and interference mapping to frequency searches and RF hazard compliance.

Or we can do it for you
Our consulting division uses our programs every day as we provide many broadcast engineering services to a wide variety of broadcasters in the U.S.
So, whatever the project, "you can do it yourself or we can do it for you."



Visit us at NAB 2002
Radio Show Booth #400

VSoft COMMUNICATIONS
Broadcast Communications Software and Engineering Consulting

www.v-soft.com (800)743-3684

RAPIDFIRE
the most reliable digital automation system

- A fully featured system including on-air, production, and music scheduling software
- Save over $10K
- Runs in Windows
- Completely integrates with all traffic and digital editors

"...During the first weekend using the new system, one of the station owners commented that we should have partnered with RapidFire a long time ago."
Dana Potter, Operations Manager, WLTB-FM, NY

"You guys have always been great in your support..."
Ron LInkins, Program Director, WFCA-FM, MS

"RapidFire has been running like a champ. It's great!"
Joe Seibert, CE, KYUK-640AM, AK

the art of digital automation
Pristine Systems
www.pristinesys.com
1-866-240-6497

STATI-CAT
If lightning strikes on your tower are causing equipment damage and lost air time - the cost of a Stati-Cat system may be recovered during your first lightning season.

AFFORDABLE – RUGGED LIGHTNING PROTECTION

The Stati-Cat Lightning Prevention System
provides a continuous, low-resistance discharge path for the static electric charge on tall structures. DISSIPATION POINTS ARE 1/8" STAINLESS STEEL RODS (not wires) ground to needle sharpness.

Cortana Corporation, Inc.
Write or call toll-free for a free brochure!
P.O. Box 2548, Farmington, N.M. 87499-2548
Call 888-325-5336 FAX (505) 326-2337

KISS DEAD AIR GOODBYE.

Danagger Audio Works INTRODUCES the
PLAN B™
SILENCE ELIMINATOR™

- HOLDS YOUR LISTENERS
  With continuous high quality backup audio from Plan B's built in CD/R/RW & MP3 player, they'll never know the difference.
- PUTS YOU IN REMOTE CONTROL
  Phones you, tells you what's up, and lets you put things right from wherever you are.
- EASY TO INSTALL & DESIGNED TO LAST
  You'll probably never need the 5 year warranty or the excellent owner's manual, but they're yours anyway.
- NEVER NEEDS IRONING
  Plan B is fully compatible with digital airchains, so it won't put a wrinkle in your upgrade plans.

Learn more about Plan B from your favorite supplier or simply visit
www.danagger.com

Danagger Audio Works

US and Canadian patents pending. B and SILENCE ELIMINATOR are trademarks of Danagger Audio Works. 888 89 AUDIO (888.892.8346)

RF PARTS™ COMPANY
• Broadcast • Industrial Communications

- Transistors
- Capacitors
- Rectifiers
- Modules
- Gasfets
- Coax
- Tubes

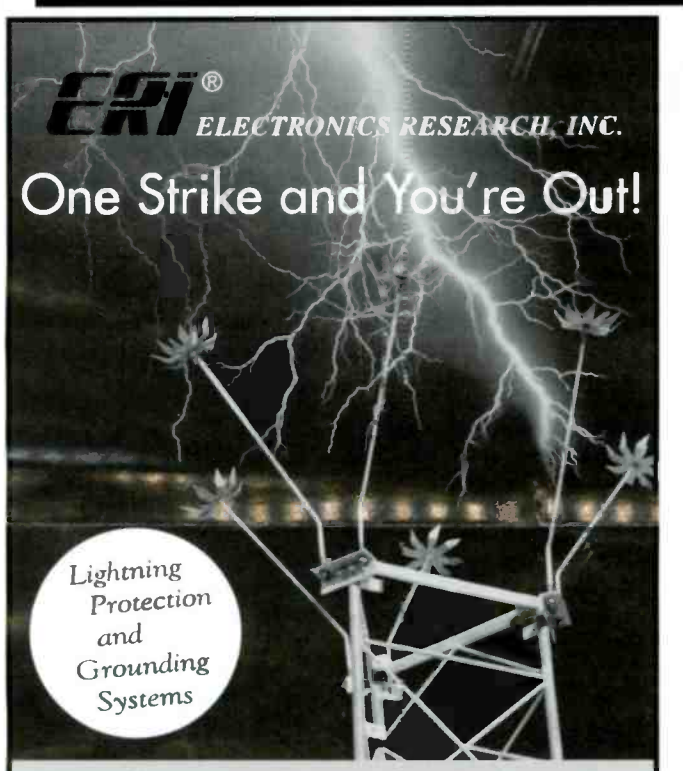
2002 Catalog now available

Eimac • Taylor • RFP • Svetlana
Amperex • MA/Com • Motorola
Toshiba • SGS/Thomson • Mitsubishi
Se Habla Español • We Export

800-737-2787
760-744-0700 • 800-737-2787
Fax: 760-744-1943
E-mail: rfp@rfparts.com

www.rfparts.com

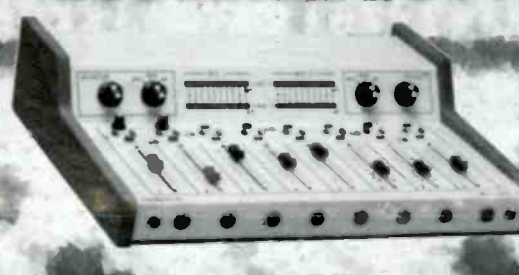
ERI® ELECTRONICS RESEARCH, INC.
One Strike and You're Out!



Lightning Protection and Grounding Systems

Protect Your Investment
ERI® 812-925-6000
7777 Gardner Road
Chandler, IN 47510
www.ERIinc.com

Mini Mix 8A
Proven...Affordable...
Reliable.



AUTOGRAM
800.327.6901
www.autogramcorp.com

REMEMBER THE *CORTANA* FOLDED *UNIPOLE ANTENNA?* WE STILL MAKE IT WITH THE SAME HIGH QUALITY MATERIALS AND WORKMANSHIP. IT FEATURES...

- BROAD BANDWIDTH *for better sound,*
- GROUNDED ANTENNA *for lighting & static electricity,*
- ELIMINATES ISOCOUPLERS *in VHF & UHF antenna lines,*
- BEST ANTENNA FOR DIRECTIONAL ARRAYS.

ALSO

DETUNING SYSTEMS FOR ANYTHING THAT DISTORTS YOUR AM COVERAGE PATTERN: TOWERS, POWER LINES, TANKS OR ANY METAL STRUCTURE.

FOR INFORMATION CALL, FAX OR WRITE:
nott ltd.
4001 La Plata Hwy
Farmington, NM 87401
phone 505-327-5646 fax 505-325-1142

Buy simplicity, reliability and service.

EAS
Price $1750.00

Equipment in-stock for immediate delivery.

Phone 740-593-3150
GORMAN-REDLICH MFG. CO.
257 W. Union St. Athens, Ohio 45701
FAX 740-592-3898

- 5 two-way RS inputs/outputs for computer, remote signboard & character generator
- 6 audio inputs on standard models. All audio inputs & outputs are transformer isolated from encoder-decoder board
- Automatic interruption of program audio for unattended operation
- 4 line 40 character LCD display with LED backlighting
- 20 key keypad to program unit, set modulation level, set input levels
- Now available with optional built in character generator which can crawl alert messages and station ID on the hour
- Will handshake with automation equipment
- 2 year warranty
- 2 minutes of digital audio storage
- 25 pin parallel printer port for external printer
- 52 terminals on the rear to interface with other equipment by removable plugs
- BNC fitting with 600 OHM balanced audio cut for second transmitter

Web Site: www.gorman-redlich.com • E-mail: jimg@gorman-redlich.com

•Also available: weather radios, antennas for weather radios, crystal controlled synthesized FM digitally tuned radios, remote signboards, cables for interconnection, Character generators.

Apply for a FREE subscription online!

go to: http://pbsubs.com/berbd2009.htm

The landscape is changing –

When it comes to understanding technology, the industry looks to *Radio* magazine to provide complete and honest information about a rapidly changing world.

Stay informed, APPLY TODAY!

or apply by mail or fax

1 Do you wish to receive/continue to receive *Radio* magazine FREE? ❑ YES! ❑ No

Signature Required _____

Print Name _____

Title _____

Date _____

Phone (____) _____

Fax (_____) _____

*E-Mail _____ @ _____

*Your e-mail address is used to send order confirmation and to communicate to you about your subscription. Please check here if you DO NOT wish to receive: BD2009

☐ Announcements regarding other Primedia Business products or services via e-mail.

☐ E-mail messages with special offers from carefully selected, relevant businesses & organizations.

For a full statement of our Subscriber Privacy Policy, visit our website at www.primediabusiness.com.

2 Please check the ONE type of facility or operation that best describes your primary business classification:

A ☐ Radio Station & Network (including education, government and religious)
M ☐ Streaming Media – Network Provider/ISP/IDC/Telco, Internet Content Provider/Web Publisher, Services, Software Provider
C ☐ Recording Studio (including education, government, religious, production and research)
D ☐ Consultant
E ☐ Contract Engineer (Including maintenance, technical support)
G ☐ Dealer or Distributor
F ☐ Other (please specify) _____

3 Which of the following best describes your title? (Check only ONE box.)

A. Company Management:
01 ☐ Chairman of the Board
02 ☐ President
03 ☐ Owner
04 ☐ Partner
05 ☐ Director
06 ☐ Vice President
07 ☐ General Manager
08 ☐ Other Corporate/Financial Official (including corporate sales)

B. Technical Management & Engineering:
19 ☐ Vice President Engineering
09 ☐ Technical Director/Manager
10 ☐ Chief Engineer
11 ☐ Other Engineering or Technical Title

C. Operations & Station Management/ Production & Programming:
12 ☐ Vice President Operations
13 ☐ Operations Manager/Director
14 ☐ Station Manager
15 ☐ Production Manager
16 ☐ Program Manager
17 ☐ News Director
18 ☐ Other Operations Title

D. Other (please specify) _____

4 Which statement best describes your role in the purchase of equipment, components and accessories? (Check only ONE box.)

A ☐ Make **final decision** to buy specific makes, models, services or programs
B ☐ **Specify** or **make recommendations** on makes, models, services or programs
C ☐ Have **no part** in specifying or buying

Radio
THE RADIO TECHNOLOGY LEADER

MAIL TO:
P.O. Box 12914 • Overland Park, KS 66282-2914

FAX TO:
847-647-7536

5 Which of the following types of equipment will you be evaluating for purchase in the next 12 months? (Check ALL that apply.)

01 ☐ Audio distribution services
02 ☐ Audio mixers
03 ☐ Audio monitoring
04 ☐ Audio processing
05 ☐ Audio recorders/players
06 ☐ Automation equipment
07 ☐ Consulting, contracting & design services
08 ☐ Data compression codecs
09 ☐ Digital audio workstations
10 ☐ Information services
11 ☐ Microphones and accessories
12 ☐ Racks, studio furniture and cases
13 ☐ RDS/RBDS & subcarrier equipment
14 ☐ Routing/switching
15 ☐ Satellite equipment
16 ☐ STL, RPU, & remote site control
17 ☐ Tape/optical storage
18 ☐ Telephone interfacing/POTS and ISDN
19 ☐ Test & measurement equipment
20 ☐ Transmitters/antenna systems/towers
21 ☐ Wire and cable
22 ☐ Internet/streaming audio equipment & software
24 ☐ Facility support equipment
25 ☐ None of the above

6 What is the budget for equipment and services you are evaluating for purchase in the next 12 months? (Check only ONE box.)

1 ☐ Less than $10,000
2 ☐ $10,000 - $24,999
3 ☐ $25,000 - $49,999
4 ☐ $50,000 - $99,999
5 ☐ $100,000 - $299,999
6 ☐ $300,000 - $499,999
7 ☐ $500,000 and up

7 If you checked A on question #2, what is the MSA rank of your market? (Check only ONE box.)

A ☐ Top 20
B ☐ 21 to 50
C ☐ 51 to 100
D ☐ Over 100

BD2009

Incomplete forms cannot be processed or acknowledged. The publisher reserves the right to serve only those individuals who meet the publication qualifications. Please allow 4 to 6 weeks for processing.

WHILE ONLINE VISIT: www.beradio.com

manage your subscription

trade show coverage

NAB Radio Show 2002

view product demos

A PRIMEDIA PUBLICATION

BIG EASY

TECHLINE STUDIO FURNITURE

Easy to INSTALL – Easy to AFFORD!

- machine-tapped rack rails
- built-in top and bottom ventilation
- removable doors
- punchblock enclosure available
- compatible with Wheatstone Wiremax System
- available with type 66 or Krone™ blocks
- modular design for variety of configurations
- both standup and sitdown heights
- above counter turret accessories
- fast installation
- generous wireways
- built-in levellers

STARTS at $2900

Available options include prewired punchblocks

OUR HIGH-STYLE TECHLINE STUDIO FURNITURE

boasts uncompromising **QUALITY** tailored to the **TIGHTEST BUDGETS**, with all the features a well-designed studio calls for.
A TRULY COST-EFFICIENT SOLUTION FOR YOUR NEXT STUDIO PROJECT!

See us at NAB RADIO – Booth #1118!

Wheatstone Corporation

tel 252-638-7000/fax 252-635-4857/sales@wheatstone.com / www.wheatstone.com

copyright © 2001 by Wheatstone Corporation

THINK *INSIDE* THE BOX

ONE INTERCONNECT DOES IT ALL!

THAT'S RIGHT— ONE DUPLEX FIBEROPTIC LINK OR A SINGLE CAT-5 WIRE = 64 channels of simultaneous bi-directional digital audio, intercage communication, logic signals, X-Y controller commands, plus auxiliary RS-232 data streams. *This single interconnect between your studio and central rackroom can save you thousands—if not TENS of thousands—of feet of wire in a typical installation!*

THE WHEATSTONE BRIDGE DIGITAL AUDIO NETWORK ROUTER can start small with a single cage and only a few cards, or fully populated units can be stacked to form larger systems. Wheatstone's STAR TOPOLOGY ARCHITECTURE lets you connect multiple locations to your central rack room, providing shared resources for all yet still permitting independently functioning studios, each with its own combination of plug-in modules specifically suited for a select set of gear.

SIGNALS ARE ROUTED entirely in the digital domain. All AES cards have sample rate converters on each input, freeing you from worry about varying sample rates throughout your facility. A family of plug-in connector modules makes installation easy, letting you mix varied signal technologies and standards all within the same cage. WHEATSTONE'S intuitive graphic based setup software handles system configuration, matrix selection and salvo pre-sets. All systems interface directly with Wheatstone consoles for seamless source selection and display.

THE BRIDGE
DIGITAL AUDIO NETWORK ROUTER

Wheatstone

tel 252-638-7000/sales@wheatstone.com/www.wheatstone.com

copyright © 2002 by Wheatstone Corporation (mini-technician not included)