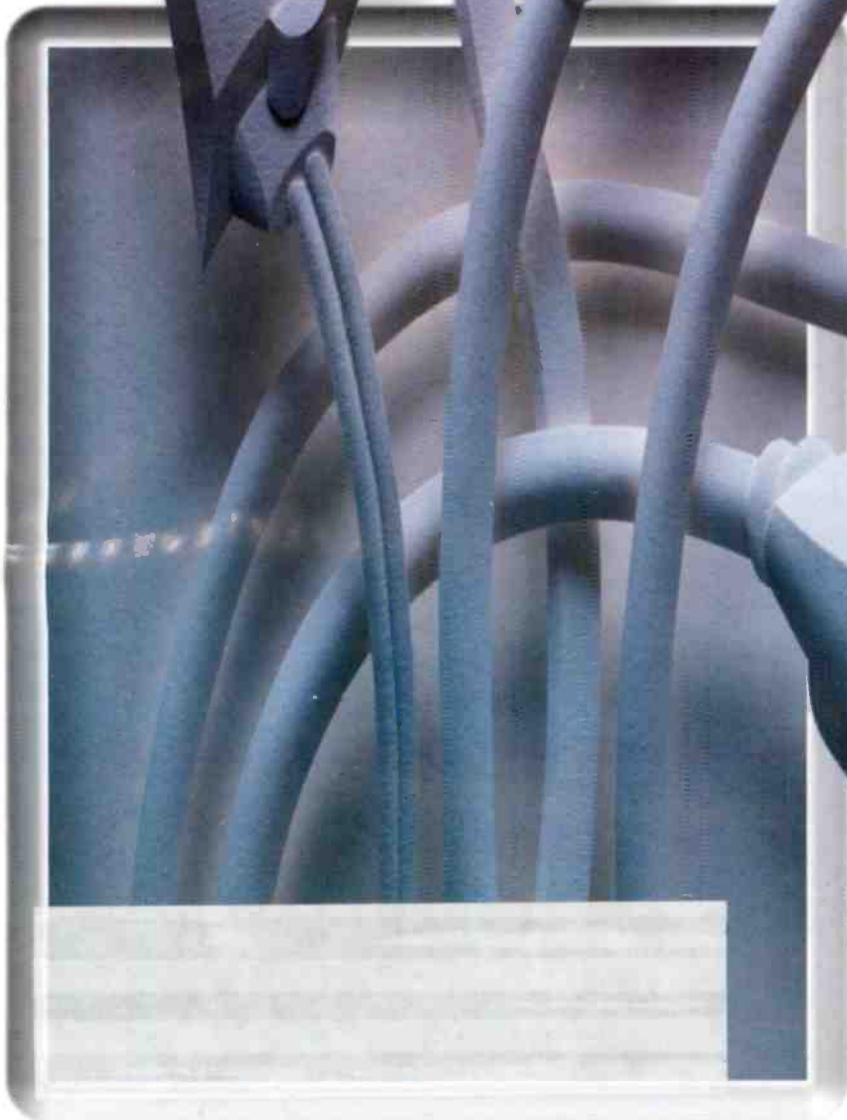


BERadio

August 2000
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Welcome to the fifth annual *BE Radio Product Source*, the issue that covers the spectrum of products you rely on to get the job done.

Last year's issue won a regional and a national award from the American Society of Business Publication Editors. This year's issue also proves to be a winner — at 72 pages, it is the largest *Product Source* yet. That means we had more space to cover the latest product offerings, including webcasting, IBOC and LPFM gear.

The *Product Source* complements our pre- and post-NAB coverage. Although many of the products on these pages were unveiled at NAB, almost as many are more recent product offerings. This issue will serve as an essential reference tool as you make your product-purchasing decisions throughout the year.

Please feel free to provide feedback on this issue. Send your comments to 9800 Metcalf Ave., OP KS 66212-2216 or e-mail us at beradio@intertec.com.

Dana Martin
Dana Martin, associate editor

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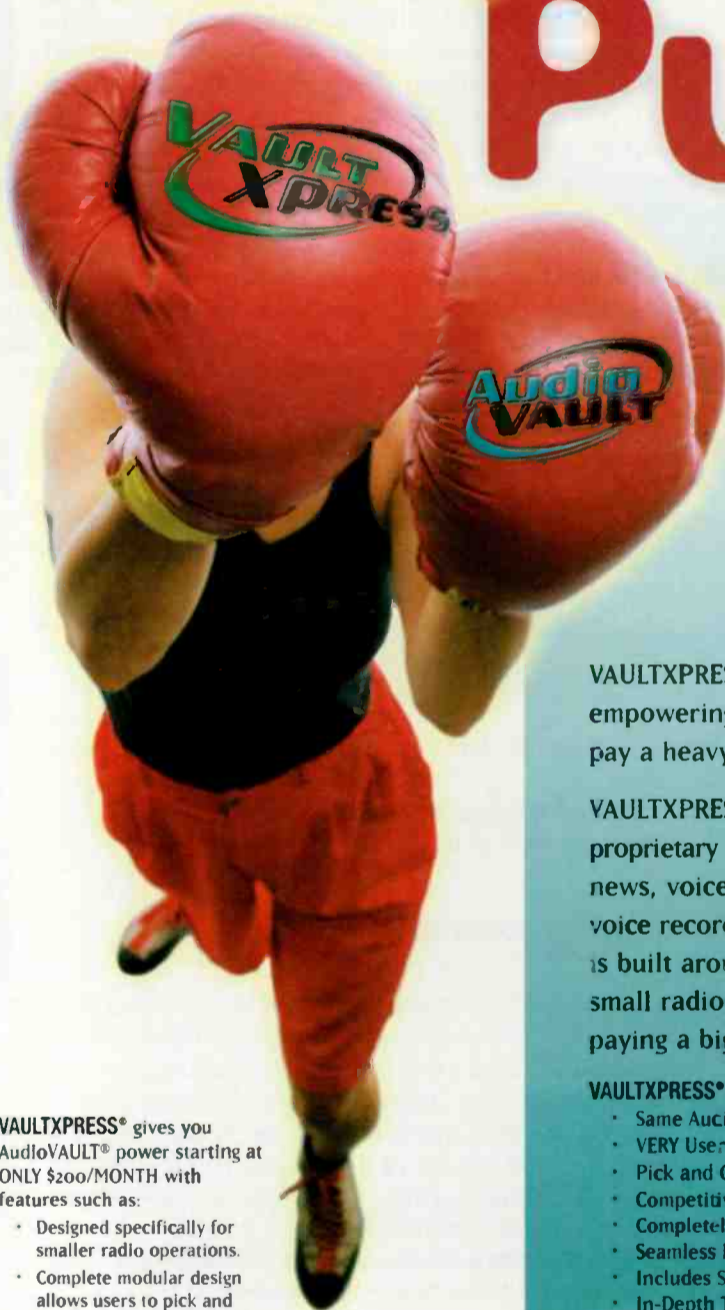
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Solid-state FM dual transmitter system

Nautel Ltd

Quantum 20/20: Comprises two 20kW stand-alone FM transmitters that are fully integrated to operate as a 40kW active reserve transmitter system. Single or dual digital exciters with coherent drive components are included. System controls, metering and diagnostics for 40kW operation are incorporated within the dual Quantum 20 cabinets. Three standard configurations are offered.

902-823-2233; fax 902-823-3183; www.nautel.com; info@nautel.com
Circle (287) on Free Info Card or go to www.beradio.com

Audio network

Klotz Digital

X4P Network: Based on a PCI PC-board, this unit provides the use of a secure, private network via the Internet to distribute audio signals and graphics or video images. Gives any XP4 Network subscriber access to media data stored on servers in an SPN. Audio and multimedia contents are coded with MPEG-4/AAC algorithms and stored on servers. The contents are ready for download by users who have been authorized by the producer. For secure transmission through the Internet, the unit scrambles the signal, enabling prelistening at lower quality levels.

678-966-9900

fax 678-966-9903

www.klotzdigital.com

klotz_digital_sales@compuserve.com

Circle (272) on Free Info Card or go to www.beradio.com

Large-diaphragm condenser mic

Audio-Technica



AT4047/SV: Features a transformer-coupled output and uses dual, gold-plated and aged large diaphragms for extended frequency response (20Hz to 18kHz), low self-noise (9dB SPL), a wide dynamic range (140dB, 1kHz), and the ability to handle high SPLs (up to 149dB, 1kHz at 1 percent THD). Delivers a warm, natural sound without sacrificing high-frequency performance. Includes a switchable 80Hz high-pass filter and 10dB pad.

330-686-2600

fax 330-686-0719

www.audio-technica.com

pro@atus.com

Circle (363) on Free Info Card or go to www.beradio.com

Audio console

LPB

7000 series: Includes transformer balanced line input cards, four mutable monitor circuits and one unmute circuit, a solid chassis for RF immunity, and one mono mixdown (two more are optional). Also features a modular component system, built-in talkback circuitry, two inputs per channel and three stereo buses. Comes with a one-year total-coverage warranty.

610-644-1123; fax 610-644-8651

www.lpbinc.com; lpbinc@aol.com

Circle (275) on Free Info Card or go to www.beradio.com

Decorative rack panel fillers

Funk Logic



equipment (but with a humorous feel). An optional kit is available for meter illumination and meter movement.

760-434-3854; www.funklogic.com; funklogic@funklogic.com

Circle (254) on Free Info Card or go to www.beradio.com

Directional antenna system controller

Kintronic Labs

DAC-MOD-2-12/CI: This PLC-based controller has a new interface. The updated full-color touchscreen interface offers easier operation, improved visual indication of system status and more complete user feedback of present and previous alarm conditions. The improved main-page interface provides easy access to standard controller functions. Full navigational control of the system pages is permitted by the selection buttons at the bottom of the screen. Three password levels are available for customized operation. Other improvements include full-screen help pages, intuitive controls and optional fiber optic control.

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

Circle (271) on Free Info Card or go to www.beradio.com

UPS

MGE UPS Systems

Galaxy 3000: Three-phase, online 10kVA to 30kVA UPS is compatible with all major industrial and network communications protocols, offers a full graphical user interface display and reports all input/output voltage combinations. Offers a unique ECO mode operating at 97 percent efficiency. Advanced inverter technology restricts total harmonic distortion to less than 3 percent. Also features a contained, scalable design — extra options cabinets are not necessary.

800-523-0142; fax 714-557-9788

www.mgeups.com; info@mgeups.com

Circle (281) on Free Info Card or go to www.beradio.com



Audio codec

AETA Audio

HIFIScoop 3: Designed to deliver 20kHz stereo CD-quality audio over ISDN lines. Housed in a 2RU chassis. Accommodates a range of standard compression algorithms, including ISO/MPEG Layer II, G.722 and the low-delay ADPCM. Features the ITU-T J52-compliant algorithm, which automatically renegotiates different algorithms from one location to another, ensuring stable, error-free connections. Available in 2-, 4- and 6 B-channel configurations and delivers full duplex operation in mono, stereo, joint stereo and dual mono channel modes. Allows transmission rates from 64kb/s to 384kb/s on ISDN of V11/V35 interfaces.

973-659-0555; fax 973-659-9555; www.aetausa.com; info@aetausa.com

Circle (349) on Free Info Card or go to www.beradio.com

FM digital processor

Orban

Optimod-FM 8400: Has more than five times the DSP power of the 8200 as well as new features. Its intelligent peak limiting system and look-ahead compression offer a clean, loud sound without distortion, trashed baseband or pilot tone modulation. Selectable soft, medium and hard bass clipping. The limiting system eliminates the need to compromise between voice distortion and music loudness, allowing even loud, highly processed presets to offer pristine live speech. Patent-pending composite processor allows the stereo composite signal to be limited while preserving stereo separation and protecting the stereo pilot tone and RDS/RBDS subcarriers.

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

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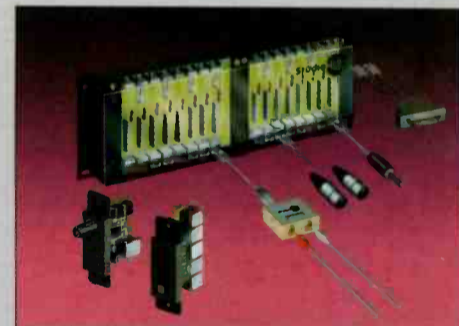


Wiring system improvements

Radio Systems

StudioHub+: Employs the same CAT-5 wiring platform, but makes different use of the pairs for increased compatibility with Ethernet networks. Expands

DD-301 and AP-302: Features decorative filler panels for racks. Available in 1- or 2RU versions. Includes knobs and a VU meter to resemble vintage



the line to include a wide selection of new digital and analog accessories. Included are A/D 24-bit converters, S/PDIF to EAS-3 converters, and mixing and monitor modules.

856-467-8000; fax 856-467-3044

www.radiosystems.com

sales@radiosystems.com

Circle (300) on Free Info Card or go to www.beradio.com

POTS/ISDN/PCS codec

Comrex

Matrix: Audio codec able to interface to POTS, ISDN or PCS services.



POTS connections are capable of up to 15kHz full duplex communications. Fully compatible with Vector and HotLine codecs. Optional accessory packs available to make the unit a flexible tool to aid in remote broadcasts. One choice transforms it into a lightweight yet powerful ISDN codec. Another provides a PCMCIA slot for connection to a GSM phone, improving audio on GSM wireless circuits. A battery pack is also available. Two mic inputs (one input is mic/line switchable), one headphone output and one auxiliary output complete the Matrix package.

800-237-1776; fax 978-635-0401; www.comrex.com; info@comrex.com

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Toolbox software via the RS-232 serial port.

317-655-9996; fax 317-655-9995

www.avcom.com.au; kwebb@prodigy.net

Circle (333) on Free Info Card or go to www.beradio.com

Targeted ad insertion RCS

InSert and SplitStream: These products automatically switch away from a commercial or promotional spot and insert alternate material in its place. InSert can replace any given spot in the stream with an alternate spot. SplitStream uses specific database and profile information to insert ads targeted to each listener. These advertisements can include graphical components and click-throughs to encourage impulse buying. InSert is intended for replacing one broadcast signal or stream with another prior to the audio encoder, most typically when covering a terrestrial station's local commercials with a separate feed more suited for the Internet. SplitStream can send different ads to individual listeners simultaneously, giving advertisers a much more focused and effective way of reaching consumers.

914-428-4600

fax 914-723-2258

www.rcsworks.com

info@rcsworks.com

Circle (301) on Free Info Card or go to www.beradio.com

Large diaphragm omnidirectional microphone DPA Microphones



Microphone Kit Type 3541: Designed for everyday use in studios where transparency, air and brightness are paramount. Based on the same large-diaphragm capsule technology as the Type 4040 Hybrid Microphone. Complete with suspension mount, windscreen and pop filter as well as the state-of-the-art Microphone Amplifier Type HMA4000 and a special microphone cable. Features a new, versatile modular capsule and preamplifier system.

519-745-1158; fax 519-745-2364; www.dpamicrophones.com
info@dpamicrophones.com

Circle (249) on Free Info Card or go to www.beradio.com

FM amplifier

Silicon Valley Power Amplifiers

10/3000 and 10/1000: The 10/3000 solid-state FM broadcast amplifier is designed for continuous operation at 3kW and requires only 10W input. The amp is constructed with a 10/150 pre-amp driving three 10/1000 1kW amps whose outputs are combined and filtered. The 10/1000 is completely self-contained with its own power supplies, cooling and control circuitry. At-a-glance indicators give an immediate indication of the status of every module, and the four-line LCD displays show critical parameters.

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

Circle (312) on Free Info Card or go to www.beradio.com

Content-management system Informix

Media360: Addresses the growing need among Internet-driven organizations to digitize and manage audio, text and other content. The enterprise-level technology efficiently manages any kind of content, anywhere and at any time. Enables the reuse of existing content and media assets by creating a central, corporate repository that is accessible throughout an organization via the Web. It also capitalizes on the Web to create new revenue opportunities, such as publishing, distributing, selling or licensing content in new markets.

510-628-5636; fax 510-628-3880

www.informix.com

Circle (265) on Free Info Card or go to www.beradio.com



Nearfield monitor

TGI North America/Tannoy

Proto-J: Provides high-quality monitoring to those on a budget and where space is at a premium. Extended low-frequency response, controlled dispersion and dynamic character make it ideally suited for 5.1 format project studios. Uses a durable 6.5-inch mid/bass driver and a new 3/4-inch high-frequency unit, ideally placed in a front-ported reflex enclosure. Each cabinet employs integral threaded inserts on its rear for easy wall mounting.

519-745-1158; fax 519-745-2364

www.tannoy.com; mbertrand@tgina.com

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Stand-alone CD duplicator Discmatic

Onyx: This multidrive unit features a proprietary autoloading mechanism. It is a 100-disc machine that supports up to four 8X drives. Offers on-the-



fly CD-to-CD copying, batch copying and the option of adding a dedicated CD-ROM reader. Equipped with four 8x drives, it can duplicate 24 full CDs (74min of audio/650MB of data) per hour.

800-422-6707

fax 516-894-9700

www.discmatic.com

sales@discmatic.com

Circle (248) on Free Info Card or go to www.beradio.com

Mic processor

Thum + Mahr GmbH/ Yellowtec

VIP/digital: Fully DSP powered, this unit can save presets to a chip card memory. Users can save and then load presets into other VIP/digital units. Also bundled with natural reverb by Waves. The DSP algorithms are designed to work in harmony with the station's main audio processing. Settings can be changed with the front-panel controls or with Windows Software.

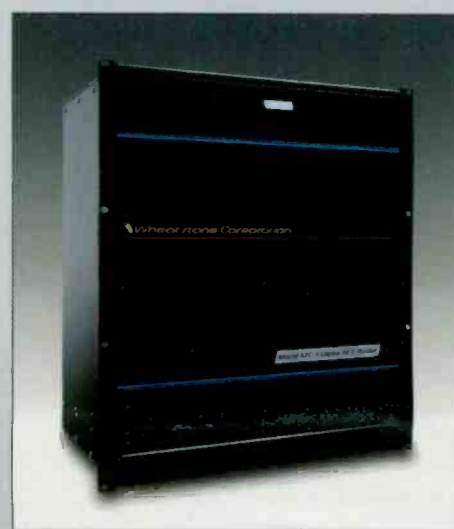
Different user levels allow various levels of controls and access. The unit can also be accessed via a TCP/IP network connection.

+49 2173 967336; fax +49 2173 9672400

www.yellowtec.com; info@thummahr.de

Circle (332) on Free Info Card or go to www.beradio.com

Digital router Wheatstone



ATC-1: This digital AES router can provide all of the routing capacity most radio stations are ever likely to need. Features up to 256 AES in and 256 AES out for complete power and flexibility. Front removable hot-swappable cards in the router allow configuration and expansion of the system as needed. Input and output cards can be digital or analog, and any card can fit into any slot in the cage for total flexibility and expandability. Uses 24-bit A/D converters and the digital inputs have onboard sample-rate converters. The software is automation friendly, making integration with a station's commercial automation and music systems seamless.

252-638-7000; fax 252-637-1285

www.wheatstone.com

sales@wheatstone.com

Circle (340) on Free Info Card or go to www.beradio.com

CD-R duplicator Verity Systems

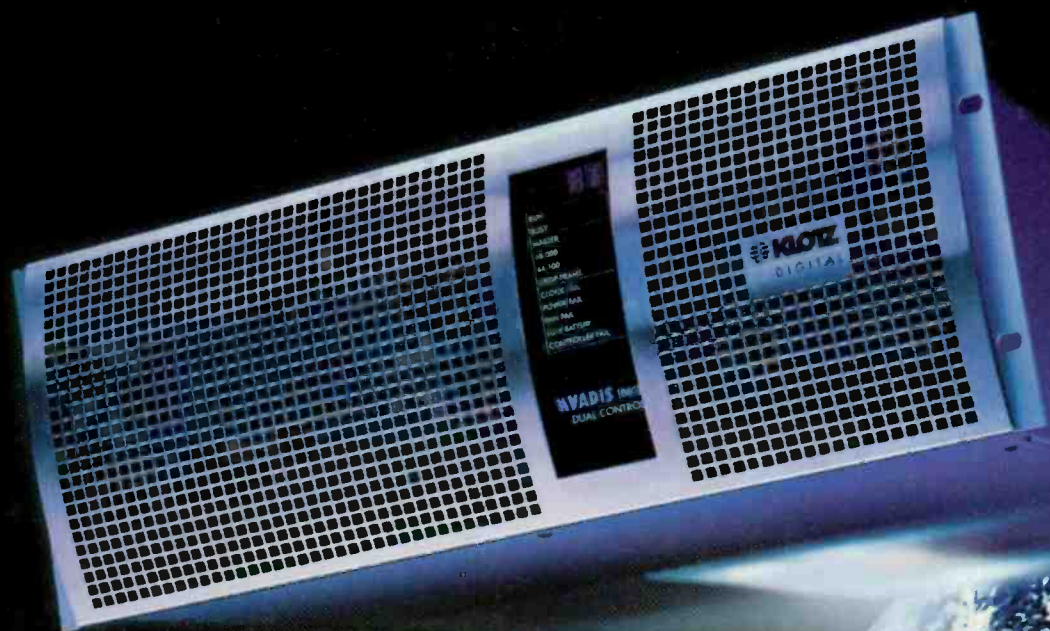
CopyDisc 16: Based on the CopyDisc range and operates with automatic format and recognition. Its exceptional integrity and reliability result in failsafe operation and consistent high-quality CD-R duplication. The unit is a state-of-the-art CD-R duplicator for larger throughput requirements. The 16 Teac or Plector writers, combined with a disk capacity of 1,100 CD-ROMs provides the ability to duplicate more than 1,000 CD-ROMs in less than 10 hours.

800-642-5151; fax 530-626-9395

www.veritysystems.com

verityscal@aol.com

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Phone: +49-89-462338-0

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Digital on-air console Arrakis

Colorado Digital Revolution series digital consoles: Rackmounted, digital broadcast console with digital and analog inputs. Occupies 3RU and is controlled by an external PC running the Cool-Mix software or from a slide-fader control surface. Available with 12 or 18 channels with two inputs per channel, three PGM buses, two mix-minus buses, stereo monitor, headphone output, cue bus output. Includes machine control logic, remote channel on/off, five onboard mic pre-amps. Twelve-channel version can be upgraded to the 18-channel version.

that simplifies software changes. The FM processor includes three-band processing as well as an integrated composite clipper, an all-digital stereo generator and daypart automation, all standard. The AM processor includes four-band processing, NRSC low-pass filtering, selectable narrow-band filters for news/talk formats and international requirements — even an EQ adjustment specifically for plate-modulated transmitters. The Net processor includes a host of processing presets designed to ensure spectral balance at common bit rates, a PC-Card slot to store, share and recall your custom processing algorithms and an RS-232 port. Remote control is available with an optional PCMCIA modem card and Windows-based software.

970-224-2248; fax 970-493-1076

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FM, AM, Net processor Omnia Audio



Omnia-3: Each processor in the Omnia-3 family includes, as standard features, 48kHz sampling, multiband processing, digital audio inputs and outputs, an integrated composite clipper, and a removable PC card

that simplifies software changes. The FM processor includes three-band processing as well as an integrated composite clipper, an all-digital stereo generator and daypart automation, all standard. The AM processor includes four-band processing, NRSC low-pass filtering, selectable narrow-band filters for news/talk formats and international requirements — even an EQ adjustment specifically for plate-modulated transmitters. The Net processor includes a host of processing presets designed to ensure spectral balance at common bit rates, a PC-Card slot to store, share and recall your custom processing algorithms and an RS-232 port. Remote control is available with an optional PCMCIA modem card and Windows-based software.

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AM measurer and analyzer Audemat

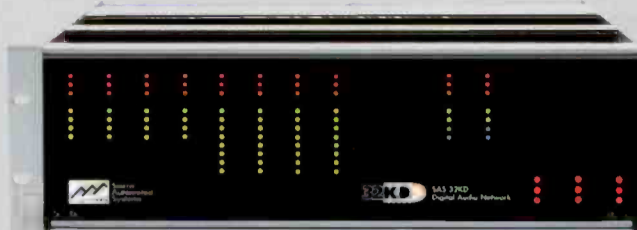
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32KD: Performs switching, mixing, DSP, IFB and mix-minus functions using the SAS exclusive DTDM bus architecture, enhancing fault tolerance and minimizing single-point failure issues. Fiber optic interfaces allow multiple mainframes to be linked together for almost unlimited expansion capabilities. Both analog and digital inputs and outputs are supported on user-selectable connector panels. The system also handles non-audio such as serial data and provides contact closures through a general-purpose interface. All SAS switchers use a variety of control methods, including rackmount and console-mount control panels, as well as soft panels and automation control. Special control panels for intercom systems and mix-minus programming are available.

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Introducing AXS 3: Scott Studios' Affordable New Digital System

With AXS (pronounced ax'-cess) 3, the 3 tells you this is the *third generation* of one of the most popular digital studio systems in radio! AXS is in its *second decade* as radio's premier satellite automation and digital cart replacement deck.

Triple Overlap: The 3 also indicates that AXS 3 is the first affordable digital system that plays *three* stereo audio recordings out to *three separate console faders* for music on hard drive. AXS 3 gives your announcers the ultimate in level control and mixing ability.

Air Studio Production Bonus: AXS 3 also has *another* stereo production output and record input. You can record and edit phone calls or spots and auto-delay news and audition them in a cue speaker while playing triple overlap on the air!

Premium SCSI LVD Hard Drives: The 3 also tells you that AXS 3 gives you a *3 year limited warranty* on hard drives. AXS 3 uses *exceptionally reliable and fast SCSI LVD 18GB hard drives* from quality manufacturers (like IBM, Seagate, and others you trust) to keep your precious commercials, jingles and other recordings *always* at your fingertips. Some other systems cut corners with slower and less reliable IDE hard drives that sometimes choke and sputter with triple overlap and music on hard drive. They also jeopardize your cash flow with less reliable drives more likely to crash.

Awesome Sound Quality: With AXS 3, your station will sound superb. AXS 3 uses only the best *non-proprietary +4 balanced 4 output* digital audio cards by Audio Science. These are also sold by most of the major brands of digital systems, but only in their top-of-the-line models costing *lots more* than AXS3.

Easy to Use: AXS 3 was *designed by jocks*, for jocks. It's 100% intuitive. AXS 3's big on-screen intro timer and separate countdown timers on every deck make pacing a snap.

If you know how to work cart decks, you know how to work AXS 3. It's so simple, everyone can run it! AXS3 has *big* buttons. Other systems use complex multi-step mouse mazes. AXS 3 gets things done with one simple touch.

Flexibility: AXS 3 seamlessly mixes uncompressed (linear) audio and all popular MPEG II compression ratios. AXS 3 can also play MP3 songs and spots you get from other sources, but if you do this you must stay with one bit rate for all. (It's a limitation of MP3, not AXS3.)

The Music's Easy: AXS 3 is delivered with *your* music library already pre-recorded for you either in MPEG II or uncompressed at no extra charge.



Jocks love AXS 3! Scott Studios' AXS 3 works with three cart players on the right side of the AXS 3 screen. The program log (at left) automatically loads the decks, or you can insert anything from pick lists. The far left of AXS 3 has 12 Hot Keys that can play instantly at a touch.

AXS 3 comes with Scott's time-saving TLC (Trim, Label & Convert) CD Ripper software for your Program Director's computer. TLC uses a CD ROM drive to transfer 5 minute songs to hard drive digitally in 15-30 seconds.

The Best Air Studio Recording: AXS 3's built-in recorder has a *graphic waveform editor* for easy recording and editing of phone calls, spots, news or announcer lines. AXS 3's log editor lets you add new items to your schedule.

The Best Voice Tracking: AXS 3 works with Scott's optional *Voice Trax*, which you can add to your production room or air studio. Announcers will be able to hear surrounding music and spots in their headphones to match their voice to the moods and tempos of the music. During Scott Voice Trax, the level of your music is automatically lowered by AXS 3.

Quality Hardware: AXS 3 uses an industrial quality Pentium III rack mount Windows computer. Jocks can use a keyboard or mouse, or optional button box or touch screen for fast control.

The Best Tech Support: Toll-free emergency phone support is available 24 hours a day, 7 days a week (including holidays). Software updates with new features are available for AXS 3 customers several times per year to stations on our annual support plan.

Easiest to Install: AXS 3 comes with a pre-wired connections to CAT5 LAN cables for snap-in installation on the AXS3 end of the wiring. Satellite control logic is also a snap with a plug-in connector. Your first two satellite audio connections for music format and news network, as well as another for your production console, are all built into AXS 3. For most music formats, there are no satellite interface cards or external switchers required. Basic connections are built into AXS3.

LAN and WAN: AXS 3 and other MPEG and uncompressed WAVE Scott Systems use the same recordings. You don't have to dub the same spot several times for several stations.

The Best Production Studios: AXS 3 is compatible with popular multi-track systems you may already have, like Sound Forge, Vegas Pro, Cool Edit Pro, Fast Edit and others. Simply add our time-saving \$500 no-dub instant LAN spot upload option.

AXS 3 is Affordable: Satellite AXS 2 systems start at \$7,995 with computer, double overlap audio card, satellite inputs, switcher and production recorder-player. Triple overlap AXS3 adds 18GB of music on hard drive for only \$9,995 delivered. For details, check scottstudios.com, axs3.com or call 800 SCOTT-77.

Hard-disk sound archiving Zenon Media

AirCheck: A stand-alone product that allows you to archive the incoming audio signals for documentation purposes (depending on the hard-disk capacity). Based on a processor that uses the Windows NT operating system, which archives all audio data onto the system's hard disk. Recording of audio data is achieved via a Sound Blaster or a compatible audio card using a compression algorithm. Depending on the compression rate, different bandwidths can be achieved. Bandwidths range from 4kHz in mono to 20kHz stereo.

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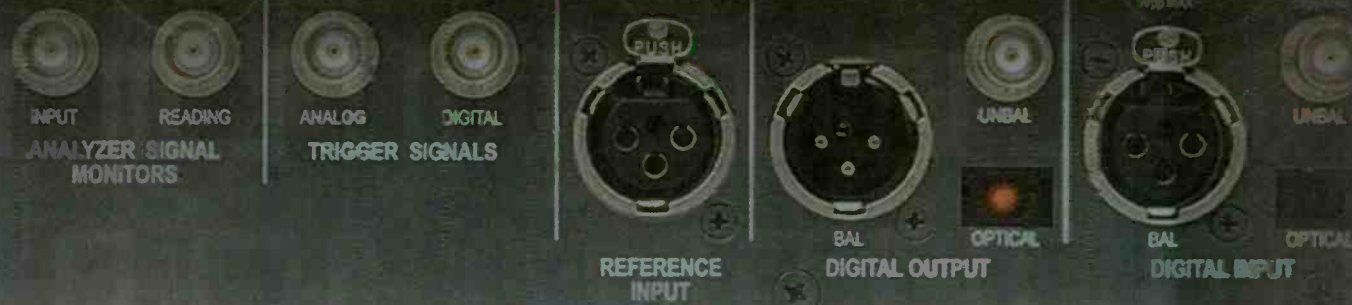


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Channel	Frequency	Bit	Phone Number	Phone Number 2
L3 Stereo	L3 Stereo	56/488	6549546743	
L3 Dual	L3 Stereo	64/328	4670279	
L3 Mono 128	Legs2	64/328	6782898	6782897
L2 Mono	B. 722	56/328	565334386	
L3 Dual	L3 Stereo	56/328	5689578766	6764545778
L3 Stereo	L3 Stereo	64/488	6541234543	
L2 Stereo	L3 Mono	64/488	5454545454	
L2 Stereo	Legs2	64/488	5447879285	
L3 Dual	L3 Stereo	64/488	4567891254	
L3 Stereo	L3 Stereo	64/488	567489568	
L2 Stereo	Legs2	64/328	676543210	676543210
L2 Stereo	B. 722	56/488	6764536	6764534
L2 Mono	Legs2	56/488	3776484	3776565
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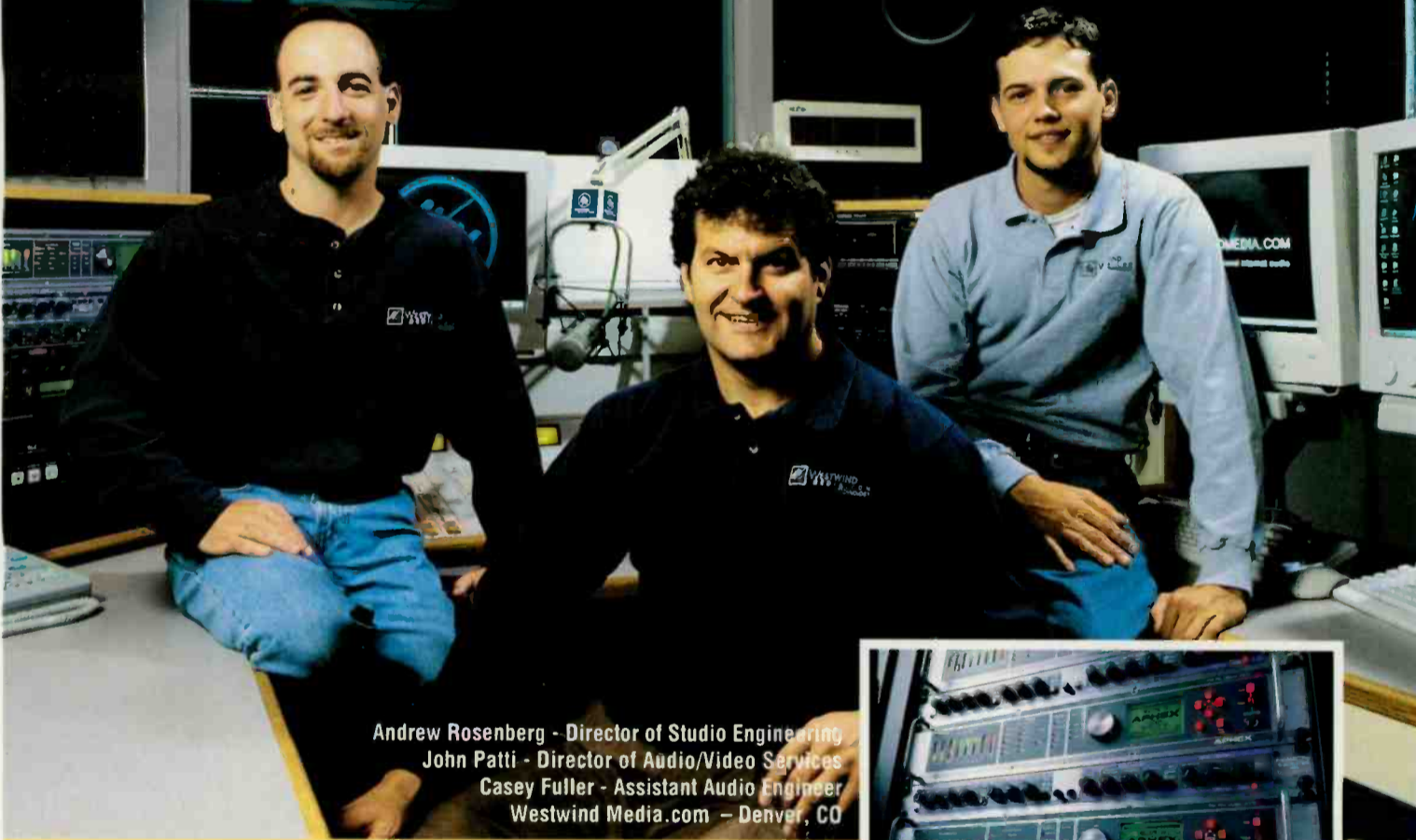
TCR/8: This synchronous master recorder is a hard-disk digital audio recorder designed to provide multichannel audio acquisition and playout for broadcast and production applications. Provides a measurable improvement of 20dB in SNR and dynamic range over conventional designs and offers bit-for-bit reproduction of 24-bit PCM, Dolby-E and AC-3 recordings. Recordings can be stored on a 9GB internal hard disk, 250MB zip disks or DVD-RAM, all standard equipment. Includes a DVD-RAM drive. DVD-RAM disks will hold up to 10 hours of uncompressed 24-bit audio with random access and the ability to play back selected tracks in real time.

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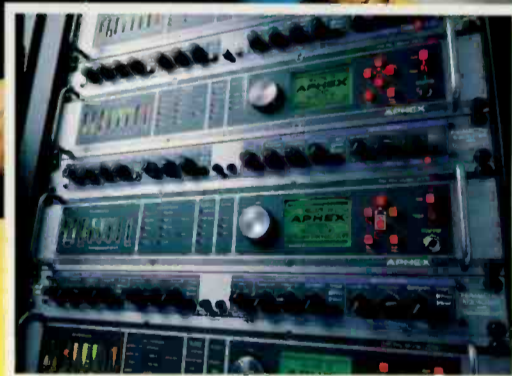
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CK-77WR:

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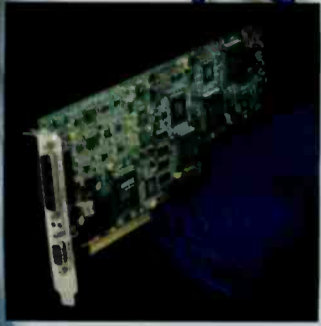
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Digital audio card Antex Electronics

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352 EQ: Features constant Q circuitry, 70mm center-detent sliders with selectable boost or cut range of 6dB or 12dB, balanced XLR, 1/4 inch and unbalanced RCA input and output connections, high- and low-pass filters, analog level metering, variable input controls, signal clip level indicators, ground lift switch, internal power supply and selectable line voltage. The all-steel chassis is 2RU and is intended for installation in standard 19-inch equipment racks.

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Digital console Auditronics

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252-638-7000; fax 252-637-1285
www.auditronics.com; sales@wheatstone.com
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RF hazard calculator V-Soft

RFHazz: This Windows application takes the work out of calculating radiation levels. Predicts the percentage of the maximum standard non-ionizing radiation levels found near FM transmitting antennas for various powers, antenna types and heights. Provides a button for controlled or uncontrolled environments. Computes power densities and percentages of the FCC's maximum for the frequencies in use. Developed in consultation with the FCC.

800-743-3684
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kmichler@v-soft.com

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One Question, Three Answers

An actual email thread, June 8-11, 2000 on broadcast.net

Thursday, June 8, 2000
To: bsi-i@broadcast.net
Subject: BSI Experiences?

We are a small AM station considering implementing BSI software to automate our station. It seems to have all the functionality that we would need. Is this a good solution? Thanks for your input

- John

Sent: Sunday, June 11, 2000 4:50 AM
To: bsi-i@broadcast.net
Subject: Re: BSI Experiences?

John,
We started using WaveStation in January and are extremely pleased with it. It's been running glitch free.
We use it weekdays in live assist to play our spots, PSA's, etc. and on weekends in full-automation. At 1p.m. both days, we lock the door and leave. WaveStation plays programs recorded earlier, picks up some programs live from satellite... joins news live at the top of the hour... records a couple of sports updates for playback a few minutes later... fades programs out... runs fill music... fades fill music, etc.

We currently have only one computer set up for WaveStation. We will probably purchase a second one in the not too distant future. Perhaps it's a sad commentary on life, but WaveStation is much more reliable and dependable than the human beings we used to use...and "Wave Station," as we call the system here, doesn't ask for vacations or pay raises.

By the way, we are a small town AM station also.
Bob Ketchersid
WYXI, Athens, TN

Sent: Friday, June 09, 2000 6:09 PM
To: bsi-i@broadcast.net
Subject: Re: BSI Experiences?

John,

We've used BSI's WaveStation for about four months. I attended their training session June 1-3. That was great. We are also very pleased with the capability of WaveStation software. The power of follow BSI's recommendations for your hardware you will be happy. Hope this helps you. BSI will do all the expensive systems will do and your bank account will look better.

Bob Ketchersid
WYXI, Athens, TN

Date: Fri, 9 Jun 2000 16:55:47 -0500
To: bsi-i@broadcast.net
Subject: Re: BSI Experiences?

John,

We're running WaveStation on 2 stations. one is live-assist the other fully auto. While there have been bugs, most of ours have been PC related. WaveStation is a GOOD program to consider. I give it 2 thumbs up

Tim Swanson
timswanson@kswp.com
East Texas Christian Radio
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Np Runtime enhancement Digigram

Linux Driver: Np runtime now includes a Linux driver for selected Digigram sound cards, making these cards available for Linux-based application development. Digigram's np Runtime, which includes device drivers and installation routines, supports Red Hat Linux distribution 6.1. Using the low-level PCX Designer Kit software development environment, applications can be written for the Digigram PCX820np and PCX821np sound cards. These professional sound cards offer DSP-based audio processing, such as MPEG coding, time-stretch and time-shrink, and conversions that will be fully available to Linux programs written to the cards. PCX Designer Kit is an application programming interface that provides access to low-level driver functions using C/C++. In addition to Linux, PCX Designer Kit can be used to develop applications for Windows.

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input@digigram.com

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Live assist and radio automation Mediatron GmbH

MediaStation: Designed for small- to mid-sized market stations. Has integrated Mediatron plug-in technology. Until this release, the plug-in technology was only in use in the AirControl NT system developed by the company for bigger radio stations. Runs with the company's plug-in technology under the 32-bit desktop operation system Windows NT 4.0 or Windows 2000 Professional. Features intuitive handling so special training is not required. An optional user interface is available to make operation even simpler. Can also be used in connection with the Internet, digital radio stations and the multimedia services connected with them, such as PAD program associated data simply by installing the corresponding Mediatron WebShow or DAB plug-in module.

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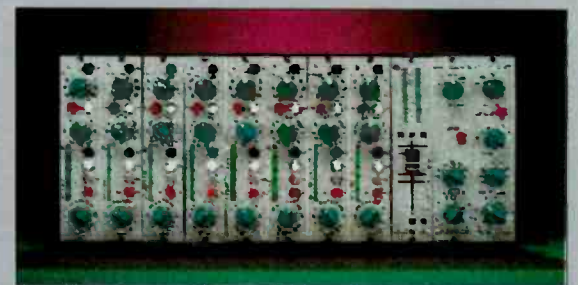
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info@mediatron.com

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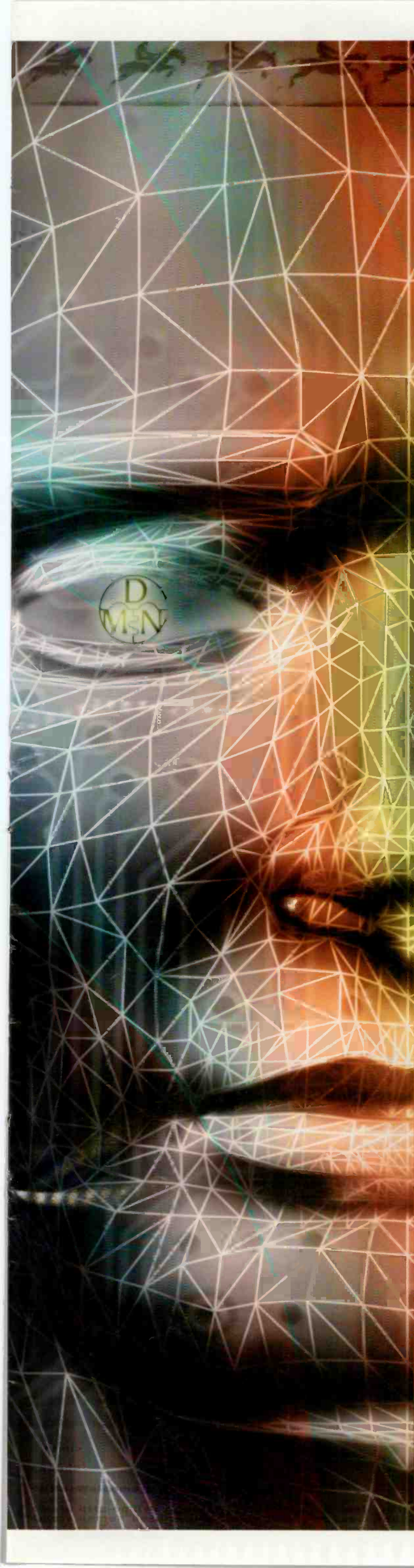
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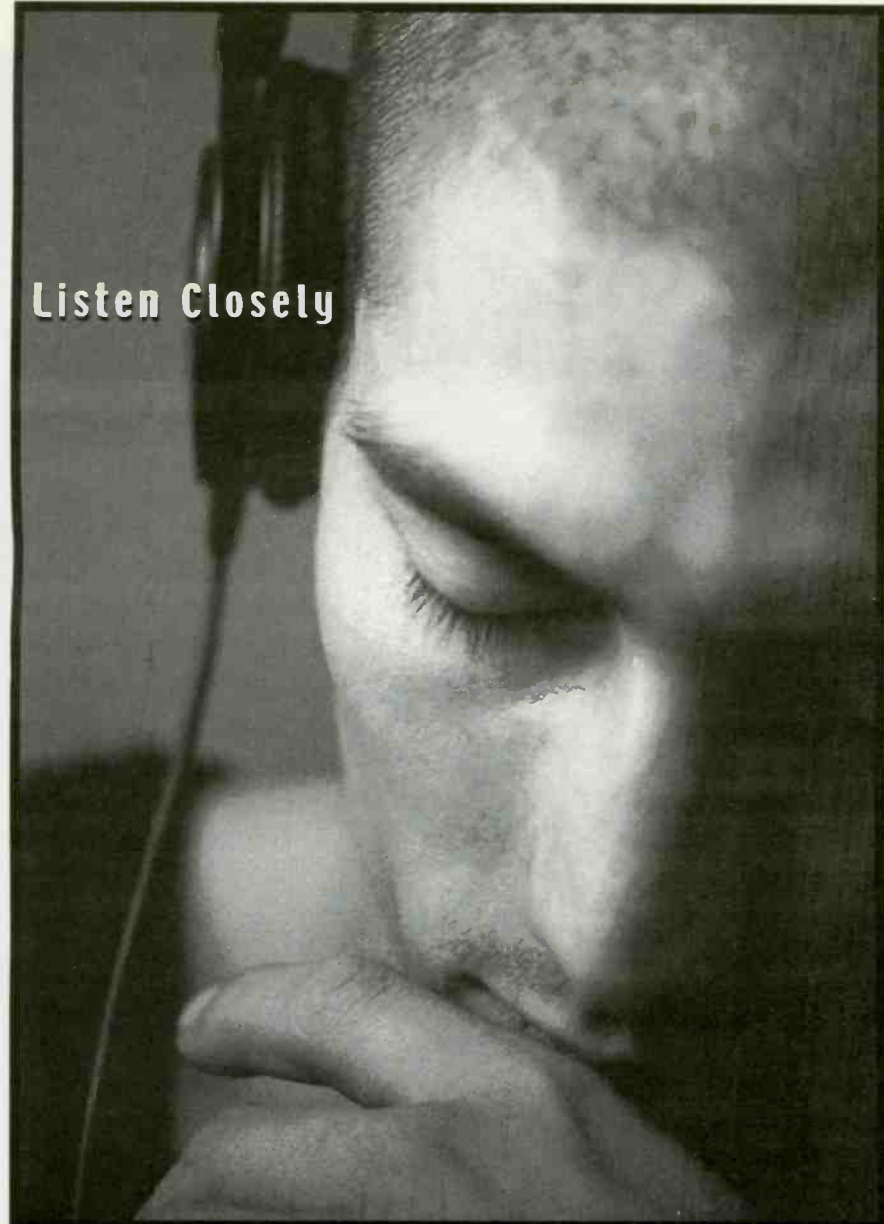
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Satellite Export & Engineering

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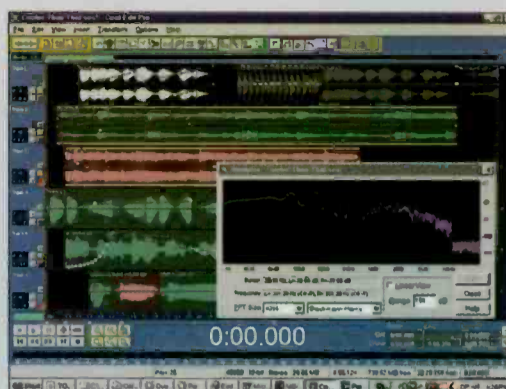
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Information manager Scott Studios

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800-SCOTT-77; fax 972-620-8811

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Crown transmitters are stand alone low power units and can be configured with optional stereo generator and audio processor. Thousands of broadcasters around the world have come to appreciate the rugged, reliability of the Crown Broadcast line of transmitters.

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Circle (178) on Free Info Card or online at www.beradio.com



PCI broadcast audio adapter AudioScience

ASi4336: Features multistream MPEG audio record/playback, GPIO and an RS-422 serial input. The GPIO comprises eight relay outputs and 16 optoisolated inputs. These enable the control of station equipment and sensing of news feeds and other events. Using the WaveX extensions to its Windows multimedia drivers, the GPIO may be accessed using standard Windows mixer calls. The unit's RS-422 serial input supports the direct input of a satellite receiver MPEG bitstream, which can be recorded as a standard WAVE or BWF file for later playback. Removes the MPEG transcode and A/D conversion process that typically occurs when recording network satellite feeds.

302-324-5333; fax 302-738-9434
www.audioscience.com; sales@audioscience.com
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The Proto-J compact playback monitor packs a tremendous amount of quality and features into a small package. The extended low frequency response, controlled dispersion and dynamic character of Proto-J make it ideally suited for 5.1 format project studios. The system employs a durable 6.5" mid/bass driver and a new 3/4" high frequency, smartly housed in a front ported reflex enclosure. Each cabinet employs integral threaded inserts (Omni® 50 Series Spacing) on the rear of the cabinet for ease of installation and surround system alignment. Best of all- they're truly affordable!

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www.tannoy.com



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Eight-track recorder/ player TASCAM/ Teac Professional

DA-78HR: A 24-bit format DTRS recorder, the unit can record eight tracks, up to one hour and 48min, on a standard Hi-8 tape. Fully compatible with all existing DTRS machines. Can be locked with

other generations of DTRS machines. Able to play 16- or 24-bit tapes. I/O for word clock, SMPTE and MIDI. A read-before-write method allows for internal mix-down. Mix can also be routed to S/PDIF outputs.

323-726-0303; fax 323-727-7635
www.tascam.com; tascamlit@tascam.com
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Facility support Spacewise Broadcast Furniture

Studio Furniture: Spacewise offers a variety of furniture products to suit the needs of its customers. The company has moved to Phoenix, which will allow it to provide its customers with several advantages. These include new, large production facilities, a more central location for product distribution and growth into allied fields. Additionally, the company will now be able to accept the largest of orders and meet the production schedules required for its customers.

800-775-3660; fax 480-704-6149
www.spacewise.com
spacewise@mciworld.com

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Digital on-air console Studer



On-Air 2000: The center-and channel-section touch-screens and the patented tactile encoders together allow easy access to all console functions for routing and signal processing. Various levels of user access can be assigned. Accepts analog or digital inputs. Available in 6-, 12-, 18- or 24 input channels.

Analog and digital outputs. The console can be fully integrated with automation systems to send and receive commands.

510-297-2711; fax 510-297-2785
www.studer.ch; studer.sales@harman.com
 Circle (318) on Free Info Card or go to www.beradio.com

Solid-state palm recorder Nagra

ARES-P: Designed for single-handed operation, with dimensions of 7.4x3.15x1.1 inches. Records three hours and 15min in stereo at 128kb/s (192MB card). Battery life is four hours, and it takes five AA alkaline batteries. 20-bit Sigma-Delta A/D and D/A conversion. 16-, 24-, 32-, 48kHz sampling frequencies. Uses PCMCIA Flash RAM type I and II recording media. Recording mode is digital compression: G.722, MPEG Layer II. Mic, mono and stereo, phantom, ALC and sensitivity-selectable inputs. Frequency response is 30Hz to 20kHz. Has a dynamic range of 80dB. Options include plug-in Electret mono omnidirectional and stereo cardioid mics, an external mic and line-input cables, and line output cable and ARES NT/95 software. Weighs 1 lb.



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www.nagra.com; contact@nagra.com
 Circle (286) on Free Info Card or go to www.beradio.com

Audio-Technica AT4047/SV Chosen as Announcer's Mic for The Cleveland Orchestra Radio Broadcast

The Cleveland Orchestra radio broadcast on Cleveland's classical music station WCLV (the anchor for a 255-station network which carries the broadcasts nationwide) has been a once-a-week tradition for the last 35 years. WCLV President Robert Conrad has announced the weekly event since its inception, and holds the distinction of being on-air commentator for a regularly-scheduled national orchestral broadcast longer than anyone in American broadcasting history. Conrad is now relying on the AT4047/SV large-diaphragm cardioid capacitor microphone as his announce mic for the broadcast.

"The AT4047 brings a certain presence to my voice that no other microphone has been able to do," says Conrad. "There is a wonderful brightness to the top end, while still

warm and comfortable — not harsh or brash — and the low-frequency response is just as nice. Everyone likes the way it sounds, including my engineer and audio supervisor for The Cleveland Orchestra, Bruce Gigax, who originally suggested the microphone."

Conrad and Gigax use the AT4047/SV both on location at Cleveland's Severance Hall and at Audio Recording, a facility where much of the Orchestra's post-production work is done, and where Conrad voice tracks the orchestra commentary for concerts he misses when out of town. "This gives us seamless continuity and total consistency," concludes Conrad.

WCLV President Robert Conrad



AT4033a Microphone Continues to Gain Popularity Among Broadcasters



On-air studio of WKSU in Kent, Ohio

Professional broadcasters around the country have been equipping their facilities with Audio-Technica's AT4033a cardioid capacitor microphone for on-air vocals. Originally introduced for the professional recording studio and live sound markets, the AT4033a was designed for use in the most demanding applications. Because of its low-noise and symmetrical, transformerless electronics, the AT4033a produces clean output signals and exceptional transient response with a dynamic range of 128 dB. In addition, a switchable 80 Hz hi-pass filter and 10 dB pad reduce sensitivity to "pops" in close on-air vocal use, regardless of the announcer's microphone technique.

When WKSU, of Kent, Ohio, the largest and most listened to National Public Radio (NPR) affiliate in the state, revamped their studios, they purchased 11 Audio-Technica AT4033a's for on-air vocals. Ron Bartlebaugh, Director of Engineering at WKSU comments on their purchasing decision: "In the process of updating WKSU's studios, we researched various microphones on the market, with the goal of equipping every studio with the same microphone to assure consistency. After careful evaluation, we chose the AT4033a because of its vocal integrity and lack of proximity effect. The microphone has a very clean and natural sound. We also wanted to make sure all of our announcers 'shined through' and the AT4033a's definitely contribute to the station's overall sound. We're very pleased."

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AT4047/SV Cardioid Capacitor Microphone

 **audio-technica**

Outlet systems Furman Sound

PlugLock Pro: Designed for fixed and mobile rack installations, the systems feature Furman's award-winning PlugLock brackets to securely lock wall warts and plugs into place. The PGP-60 is



60 inches tall and provides three 20A circuits and 24 Edison outlets. The PGP-20 is 30 inches tall and provides 14 outlets distributed between two 20-

amp circuits. Connection is via 3/4-inch conduit and a Furman PGP-S 60 Amp Remote Power Switcher, or any user-supplied junction box. Twelve PlugLock brackets (eight with the PGP-20) are supplied with the unit. Additional sets of six brackets are available.

707-763-1010; fax 707-763-1310

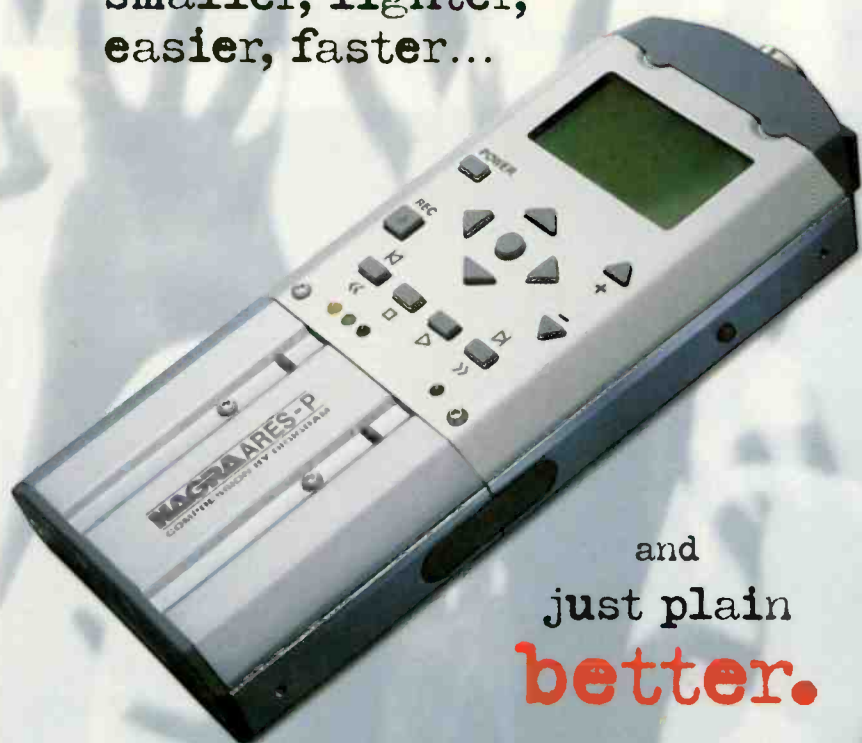
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Virtual crosspoint audio router Philips

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MOH-1000 interface Strategic I.T. Solutions

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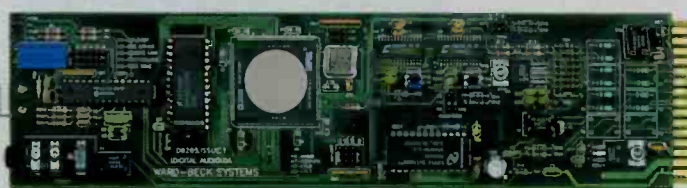
877-860-9052; fax 513-860-2068

www.strategicit.net; sales@strategicit.net

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Audio-card accessories Ward-Beck



8200 Series Additions: Has four new additions to the card-frame platform. All four new cards operate from

22kHz to 96kHz sampling rates and offer 20- or 24-bit resolution. The D8205 (shown) is an adjustable-gain distribution amplifier with built-in sample-rate converter. The D8206 is a digital audio reference signal generator able to

produce continuously variable signals from 20Hz to 20kHz, from digital silence to 0dBfs. A sample-rate converter, the D8207, can convert a maximum ratio of 1:3 or 3:1. The D8208 is a dual-channel audio-processing amplifier for level matching of two AES audio signals. The two channels can also be mixed.

800-771-2556; fax 416-335-5202

www.wbsltd.com; wbsltd@istar.ca

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Rackmount computer accessories Middle Atlantic Products

RM-MM and RM-CPU-ATX: Model RM-MM monitor rackmount measures 19 inches wide by 15³/₄ inches high. Includes integral rolled-steel rack handles, an access door for

monitor controls and four adjustable crossbars that secure the monitor in place. Model RM-CPU-ATX is tapped for the company's optional rack slides. Includes a 300W, UL-listed ATX power supply. Front-panel features include a hard-drive bay capable of housing a trio of disk drives behind a latching front door, a removable front grill for filter replacement, a reset switch and LED power/HDD indicators.

973-839-1011; fax 973-839-1976

www.middleatlantic.com; sales@middleatlantic.com

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Turntables

Denon Electronics

DP-DJ150 and 100: Two new quartz synthesized direct drive turntables. The DP-DJ 150 is equipped with an S/PDIF coaxial digital output, which enables direct recording to a digital storage medium (MD, CD-R, DAT, hard disk) while

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www.del.denon.com

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CD-ripping software Prophet Systems



CD/Extractor Family: The CD/Extractor software has been expanded to three versions: NGD, CFS and Pro. CD/Extractor NGD is for use with the NexGen systems, CD/Extractor CFS is for AudioWizrd system users, and CD/Extractor Pro is a stand-alone version. All three CD/Extractor versions can automatically gather Internet information on the album or song. All three are certified by CDDDB, the online audio CD information database.

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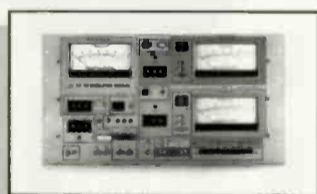
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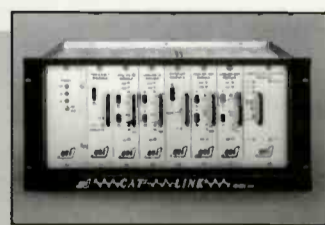
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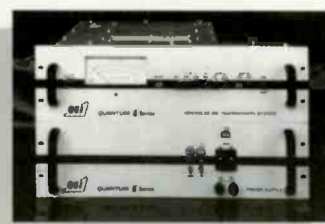
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Modulation Monitors



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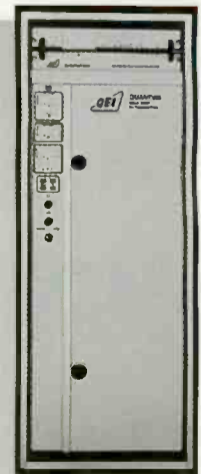


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Broadcast Solutions



The **Studer On-Air 2000 Digital Continuity Console** offers a unique and intuitive user interface via touch screens (**Touch'n'action** concept). Due to its modular audio interfacing and a wide range of options and configurations the On-Air 2000 may be adapted to any radio stations needs. The new released version 3 software features up to six cleanfeeds, assignable master faders and a comprehensive interface for integrating with CAB systems.

The combined system of Studer DigiMedia and On-Air 2000 is the perfect solution for computer assisted broadcasting.

The new **Studer DigiMedia Pro CAB System** (Computer Assisted Broadcasting) provides powerful features for the complex requirements of a competitive radio station: Drag&Drop for title and jingle insertion, remote control over LAN or telephone line, integration of industrial standard audio editors and control of digital mixing consoles. Enhanced functionality for RDBS and internet publishing. The open architecture allows for easy interfacing of DigiMedia with all major scheduling software. Newsroom systems may be integrated using the DigiMedia database replicator.

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Digital signal converter
ATI



DMM100: A digital format converter that accepts an AES-3 (110Ω), AES3-ID (75Ω), S/PDIF or TOSLINK input and distributes it to all four outputs. The output complement is

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As part of the Nanoamp series, the unit can be rackmounted with other units or used as a stand-alone. The DMM100-BAT offers the same features but can be powered by four AA batteries.

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Mic pre-amp
Aphex Systems



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Handheld analyzer/generator
Prism Media Products

DSA-1 Portable Analyzer: A handheld AES-3 signal analyzer and generator. It is a battery-powered instrument for electrical, timing and data analysis of digital audio signals. These factors are vital in establishing reliable interconnection operating margins. The latest version 2.0 software features a versatile signal generator and a host of extended analysis and logging functions. Software upgrades are easily user-installed via a simple serial download to flash memory.

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Audio tester TerraSonde



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analyzer, RTA, SPL, signal generator, sample scope, impedance meter, THD, sweeps, memories, speaker/mic polarity tester, MIDI, and more. Power is selectable for 90V to 120V or 220V to 240V. All connections are on the front panel. Includes PC and Mac interface cables. Rechargeable battery system is optional. Software version 2.16 supports uploading of up to 40 data memories.

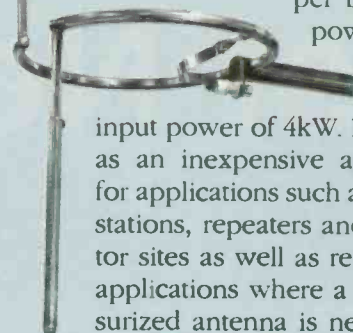
888-433-2821; fax 303-545-6066

www.terrasonde.com; info@terrasonde.com

Circle (329) on Free Info Card or go to www.beradio.com

Side-mounted circularly polarized FM antennas Dielectric

DCR-L: Rated at 500W to 1kW (depending on the feed system) per bay input power, with a maximum



input power of 4kW. Designed as an inexpensive alternative for applications such as Class A stations, repeaters and translator sites as well as remote site applications where a nonpressurized antenna is needed.

800-341-9678

fax 207-655-7120

www.dielectric.com

dcsales@dielectric.com

Circle (244) on Free Info Card

or go to www.beradio.com

Digital audio recorder Henry Engineering



DigiStor II: A solid-state device that can store up to 16min of audio with a bandwidth of 6.5kHz. Supports multiple play modes and features full remote-control capability, an EOM tally output and an automatic phone coupler.

626-355-3656; fax 626-355-0077

www.henryeng.com

info@henryeng.com

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800-552-8346 Fax: (815) 786-8502

Circle (210) on Free Info Card or go to www.beradio.com



CD duplicator MediaFORM

CD-5400L: A manual stand-alone CD-R duplication system whose advanced features allow duplication of up to four CDs simultaneously, each in less than 7min. One-button operation makes the unit simple to use while duplicating all current CD formats, from an original (master), from a locally stored hard-drive image, or imported from another source. 12X/8X selectable Smart-Drive2 makes for fast and exact image copies. In one hour, the unit is capable of duplicating 34 CDs (min) based on a full 650MB master CD.

800-220-1215; fax 610-458-9554

www.mediaform.com; info@mediaform.com

Circle (278) on Free Info Card or go to www.beradio.com

Telephone systems Innovative Devices

PROtalk4: Designed by Broadcast Telephone Systems, the unit brings caller handling into the 21st century. Its small footprint and intuitive, backlit control panel are at home in any studio. Independent digital hybrid technology and automatic level balancing ensure a consistent sound.

888-890-7424; fax 250-260-2871

www.innovadev.com

info@innovadev.com

Circle (266) on Free Info Card

or go to www.beradio.com



Internet automation system Broadcast Electronics

WebVault: An Internet audio studio system for the collection, organization and broadcast of professional audio over the Internet. Offers AV Air, AV Sat, AV Production and AV Schedule as well as additional traffic and music-scheduling software. Includes AV Web, the newest addition to the software line, which streams data along with the audio to create dynamic HTML presentations.

217-224-9600; fax 217-224-9607

www.bdcast.com; bdcast@bdcast.com

Circle (370) on Free Info Card or go to www.beradio.com

Portable mini-disc recorder Superscope/Marantz



PMD650: Digital editing features let users mark time- and date-stamped tracks and move, divide, combine, erase and title tracks. A 20sec stereo recording (40sec mono) pre-record audio cache ensures solid field recording while enabling recording of up to 2sec of audio before the record button is pressed. The TOC is updated before recording to make sure recordings are not lost in case of unexpected loss.

630-820-4800; fax 630-820-8103

www.marantz.com/product/professional

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To: The Broadcast Community

From: G. Scott Benton
President
Commercial Communication Associates, Inc.

Dear Friends,

I am pleased to announce the new ownership and management of CCA by Commercial Communication Associates, Inc.

Commercial Communication Associates, Inc. was formed in a concerted effort between myself and a group of private investors. This new company was formed for the purpose of purchasing the assets of CCA Electronics, Inc. The purchase was finalized on the 24th of March 2000.

Commercial Communication Associates, Inc. is in no way affiliated with any other transmitter manufacturing company. We are privately owned and we operate as a stand alone business.

Our new management team was selected to reorganize the company from the ground up. The entire team is comprised of previous CCA employees. Our employees have a combined experience of more than 200 years. I would like to take this opportunity to introduce them to you. Many of you will recognize some of our names from the past.

President- Scott Benton, CFO- Connie Fultz, Dir. of Test- Jerry Meier, Customer Service Manager- Tim Parrott, Materials Manager- Bob Todd, Production Manager- Van Nguyen, I.T. Manager- Irena Posyvaylo, Documentation Manager- Alan Ashford, Office Manager- Dorothy Saffels, FM Test Engineer- Lee Langley, AM/SW Test Engineer- Vernon Boyce.

Every member of our team is committed to manufacturing the highest quality products in our industry. We are dedicated to complete customer satisfaction and to operating our business in an honest and ethical manner. We are focused on continuous controlled growth in both our business and product offerings. We will deliver the highest level of customer support in our industry. We will provide our customers the greatest value for their broadcasting dollar.

I wish to personally thank those of you who have been calling with words of congratulations and encouragement. It's great to be back!

Thank you,
G. Scott Benton
President
Commercial Communication Associates, Inc.



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ASSOCIATES, INC.

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FAIRBURN, GEORGIA 30213
USA

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Radio transmitters CCA (Commercial Communication Association)

AM and FM Transmitters: In March 2000, the Commercial Communication Associates team was formed and was successful in purchasing CCA Electronics for the purpose of operating the broadcast transmitter manufacturing facility and business. CCA has been manufacturing FM, AM and short-wave broadcast transmitters for more than 35 years. CCA is recognized around world and in the broadcast industry as a leader in the field of broadcast transmitter manufacturing. The name CCA is synonymous with reliability and ruggedness. The company's

high-quality, conservatively rated components and its innovative circuit designs have given Commercial Communication Associates/CCA a solid, time-proven track record.

770-964-3530; fax 770-964-2222; www.cca.ws; info@cca.ws

Circle (231) on Free Info Card or go to www.beradio.com



Studio furniture prewiring Mager Systems

Turnkey Prewiring:

Since 1979, the company has been designing and fabricating exquisite custom studio furniture for the broadcast industry. This award-winning furniture offers true, solid-

wood premium construction, 3D drawings and design. The company now also offers new turnkey prewiring. The furniture comes with a 10-year warranty on all solid-surface tops. The company provides delivery and installation nationwide.

623-780-0045; fax 623-780-9860

Circle (276) on Free Info Card or go to www.beradio.com

Digital stereo monitor Genelec Oy



2029B: An XLR, AES-3 24-bit/96kHz version of the 2029A. The monitor supports the same modes of operation, including use in monitoring systems with a Genelec 1091A subwoofer. Ideal for direct connection to online and offline editing systems. Comprised of one right master speaker and one left slave speaker. Stereo level adjustment is controlled by a single volume knob on the right master speaker. Designed to accept either AES digital audio data through an XLR connector mounted into the right master speaker or conventional analog audio inputs.

+35 8771 3311; fax +35 8178 12267

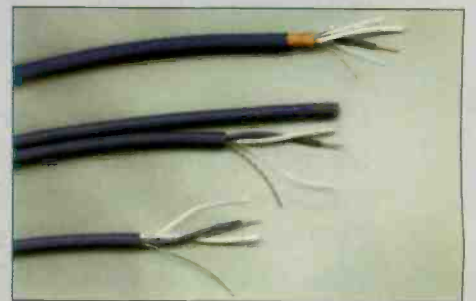
www.genelec.com

genelec.usa@genelec.com

Circle (256) on Free Info Card or go to www.beradio.com

AES-3 cable Gepco International

5596 series: This AES-3 digital audio cable is designed for extended physical distances and increased data rates. Precision manufactured for 100Ω impedance, it is optimal for 96kHz bandwidth requirements. The low attenuation and jitter specifications also work



well for applications requiring long cable runs at lower sampling frequencies. Available in two versions, the 5596EZ is intended for punch-downs, mass termination, and permanent installations and the 5596M is designed for studio wiring and cable harnesses. Both feature stranded, 24-gauge conductors.

800-966-0069; fax 847-795-8770

www.gepco.com; gepco@gepco.com

Circle (258) on Free Info Card or go to www.beradio.com

FM exciter SBS

FM10: Features wideband design techniques. Frequency adjustment is easily achieved by internally set direct reading dial switches — no further tuning is required. Uses the SBS ultra linear modulator to provide quality sound reproduction with freedom from overshoots and artifacts. With its effective VSWR foldback system, the unit will operate into any load without damage. Conservatively rated components ensure extremely high reliability and give good efficiency. Available in four versions: mono input with limiter (FM10/M), stereo inputs with encoder and limiters (FM10/S), AES-3 stereo input without limiters (FM10/AESEBU) and a multiplex input (FM10).

352-622-7700; fax 352-622-7000; www.bgsfl.com

Circle (307) on Free Info Card or go to www.beradio.com

Signal transport systems QSC Audio



Rave-s: Rave-s (Routing Audio Via Ethernet) models now support operation on switched networks, which allows audio and computer data to be transmitted over the same Ethernet network and gives Rave-linked audio systems the potential to accommodate hundreds of audio channels over a single CAT-5 or fiber optic cable. Switched networks offer several advantages,

including the transmission of non-audio data, compatibility with multiple network protocols and expanded channel capacity. Non-audio data can be transmitted on switched networks by creating Virtual LANs (VLANs), which essentially divide a single physical network into multiple virtual LANs.

714-957-7100; fax 714-754-6174 www.qscaudio.com; info@qscaudio.com

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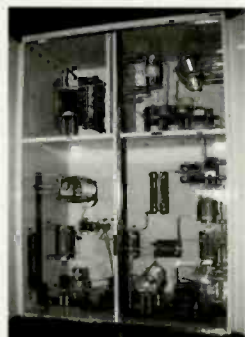
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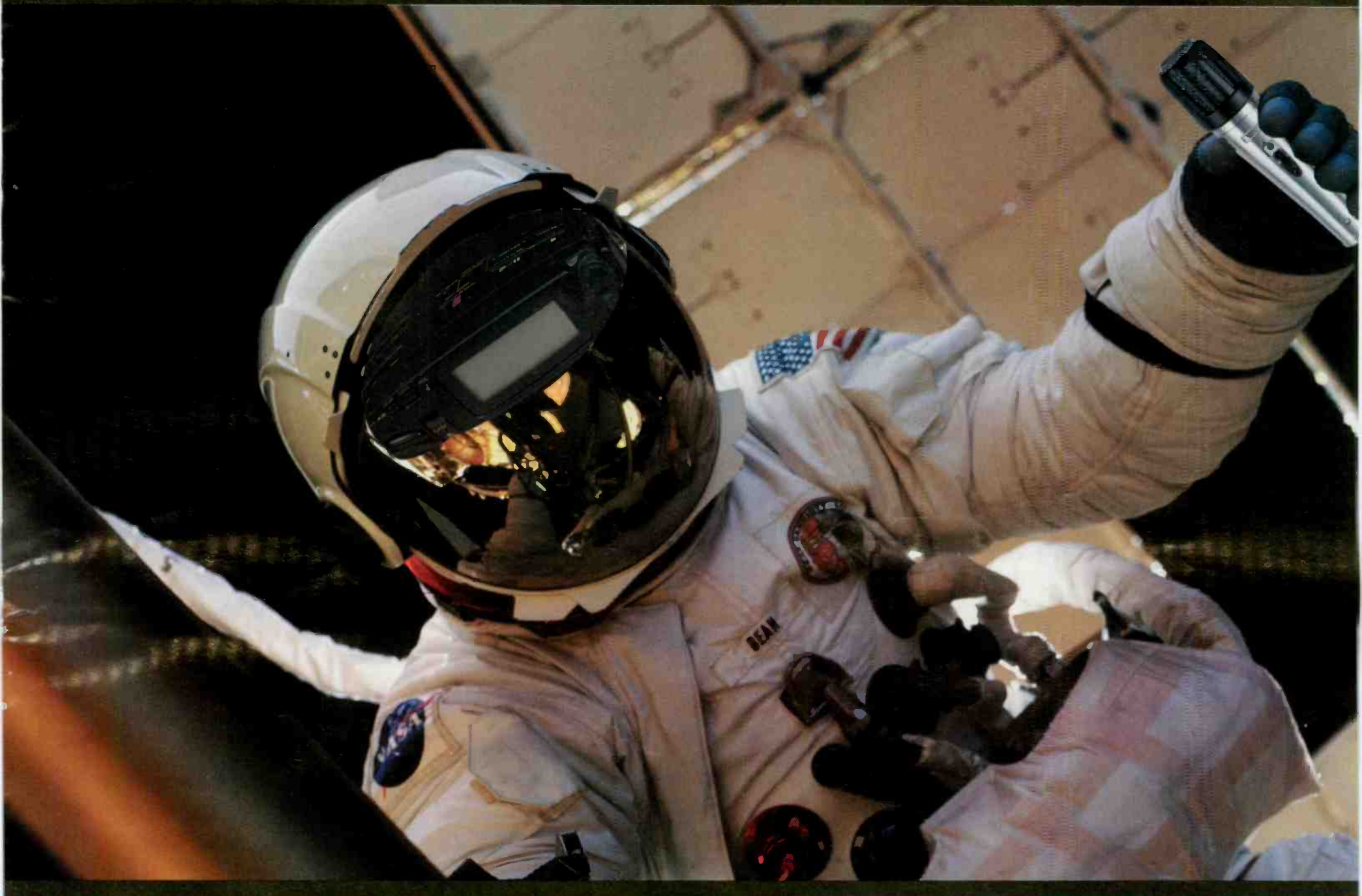
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PH./FAX: 423-878-3141/4224
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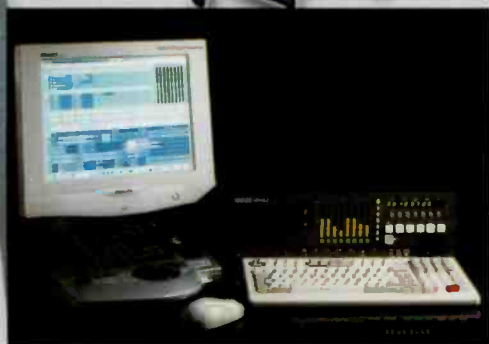
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The PMD650



PC CARD RECORDER
The PMD680





New options Digital Audio Research

OMR-8: The new Edit Controller option, featuring a smooth, weighted-action rock wheel, provides a set of dedicated function keys to ensure the maximum operational flexibility and speed. It is also designed to enable convenient remote operation of machine-room installed OMR8 systems. Also new are ProTools compatibility and DSP functionality with Segment-Based four-band parametric EQ. Simply inserting a ProTools disk into the machine opens the files instantly, with no file conversion or translation time required. This enables a project to be continued as a ProTools session. Enables new projects to be started and operated in ProTools mode, while DAR-format projects can also be exported to a ProTools system. Other additions include a CD-mastering facility and new fine-edit function.

+44 1372 742848; fax +44 1372 743532

www.dar.uk.com; mail@dar.uk.com

Circle (246) on Free Info Card or go to www.beradio.com

Mic processor Joemeek

VC-3Q: This 1U half-rackmounting unit features a microphone preamplifier, the Joemeek compressor and the Joemeek Meequalizer EQ. The front end is a new design that uses five complete stages of amplification controlled by a single volume control. The design gives (microphone) input headroom of more than 30dB. The input is floating balanced and will easily accept mic levels from -70dB up to more than 0dB. Phantom power is provided for capacitor mics. Noise performance is (-125.5dB below input 20Hz to 20kHz 200Ω input termination). The line input is designed for balanced circuits and will accept -30dB up to +24dB.

310-373-9129

fax 310-373-4714

www.joemeek.com

sales@pmiaudiogroup.com

Circle (269) on Free Info Card or go to www.beradio.com

Portable mixing console Calrec Audio Ltd



M3: Available in two frame sizes — the 1-inch rackmount version is a 10x4x2. The desktop version is a 20x4x2. Features include four auxiliary sends, choice of input module types and a mix-minus send on each input. Offers an internal power supply. Monitor section has multiple source selection, control room, studio and headphone outputs, and LED bar graph meters.

+44 1422 842 159

fax +44 1422 845 244

www.calrec.com; claireh@calrec.com

Circle (375) on Free Info Card or go to www.beradio.com

Instant shelter E-Z UP International

Hut: Known for its large graphics area, the shelter helps stations establish a market presence for on-site locations, remotes and broadcast events with screen-printed station logos, graphics and slogans. Features a patented, scis-



sors-action truss system with a unique new gabled-top design that increases visibility. Also features white, powder-coated frame that sets up in seconds on any surface without the use of ropes or poles. Available in four sizes (8'x8', 10'x10', 10'x15', and 10'x20').

800-45-SHADE; fax 909-781-0586

www.ezup.com; info@ezup.com

Circle (250) on Free Info Card or go to www.beradio.com

EAS receiver Dayton Industrial Corp



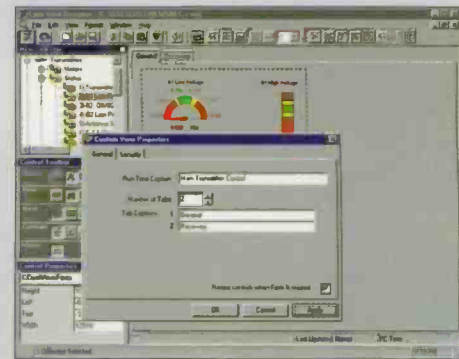
AFC3: The company's line of receivers is designed for professional or EAS monitoring. The receivers are available as stand-alone or three can be housed in a 1 3/4-inch rackmount, the AFC3. The AFC3 contains a front-panel audio selector switch, mounted small speaker and headset outputs controlled by a volume control. Also mounted on the front panel are LED indicators for 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. Uses a 12V power source.

941-351-4454; fax 941-351-6081

www.daytonindustrial.com; sales@daytonindustrial.com

Circle (241) on Free Info Card or go to www.beradio.com

GSC3000 software package Gentner



Lynx: This Windows-based package improves the functionality of the GSC3000 by letting the user preschedule tasks such as logging and capturing stored data, printing reports and configuring user-defined jobs. Allows for user viewing of historical information from any networked GSC3000 unit. Available to current users in an easy upgrade path.

800-945-7730

fax 801-977-0087

www.gentner.com

bcastinfo@gentner.com

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and easy with our new Desktop Director, a fully integrated telephone and switch console. Intuitive operation is enhanced by the exclusive Status Symbols,[™] graphical icons that convey line and caller status at a glance.

Finally, a breakthrough in telephone technology. Up to 12 callers can be routed to the two all-digital hybrids. Self-contained, easy-to-install and maintain, the new TWOx12 simplifies even the most complex talk shows.

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The Hafler® VR Studio Supports 360° Views of its Products, Including the Industry Acclaimed TRM8 and TRM6 Active Monitors

Hafler®, the leader in amplifiers and active monitors for the broadcast, studio, post production and audiophile markets, has unveiled its new "Virtual Reality" website at www.hafler.com. Hafler's new VR Studio is a collection of Virtual-Reality movies that support 360-degree views of its products that allows viewers to experience Hafler products in real time by seeing objects from all sides. Now sound contractors, engineers, producers, studio owners and musicians shopping for new amplifiers and reference monitors can get a close-up view on all Hafler products.

"Hafler's VR Studio lets our customers get a close up view of amplifiers and reference monitors from the convenience of their home, office or studio," explains Hafler WebWizard Eric Russell. "Customers can also zoom-in on controls, connectors and LEDs as well as click on hot spots to see the inside circuitry and craftsmanship that goes into each and every Hafler product."

Jerry Cave, managing director for Hafler, says, "This is a great first step for dealers and potential customers to see what our products are all about. Not only can they see the necessary specs on a particular amp, active monitor or subwoofer on our website, now they can see how the components are actually laid out and visualize on a 3D scale how the gear looks from all sides. Hafler gear is not only the best sounding gear in the market but, cosmetically, they are very attractive, as well. The Hafler VR Studio allows the viewers to see that for themselves."

Circle (219) on Free Info Card or go to www.beradio.com

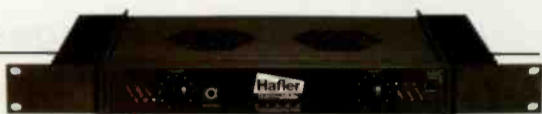
P1000 TRANS-ANA COMPACT AMPLIFIER A BROADCAST ENVIRONMENT STANDARD

Unit Designed for Broadcast Studio Monitoring, Recording and Critical Listening, Surround Sound and Other Professional Audio Applications

The Hafler® P1000 Trans-ana compact single rack height amplifier is designed for broadcast studio monitoring, recording and critical listening, headphone system amplification, surround sound applications, paging systems, balanced or unbalanced use, and 115V/230V requirements.

The unique circuitry of the P1000 is based on TRANsconductance Active Nodal Amplifier topology, which operates the output stage with its full voltage gain, allowing the input stage to operate from a low voltage regulated supply. The signal is then shifted up in level to the high voltage section by the driver stage, which forms an active node at ultrasonic frequencies. This results in very stable, highly linear operation producing a natural and accurate soundstage with exceptional image focus.

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TRM6 Active Monitor & TRM10s TRANS-ANA Active Subwoofer System

Hafler's down-firing, ported TRM10s Trans-ana Active Subwoofer augments the performance of Hafler's TRM6 Active Monitor System or any small monitor when frequency response below 30Hz is vital. The TRM6 and TRM10s have already received rave reviews from its customers and the professional trade media alike.



TRM6

Circle (222) on Free Info Card or go to www.beradio.com

"Designed around the same demanding principles of our award winning TRM8, the TRM6 has been engineered to deliver state-of-the-art sound quality, but in a smaller package and at a lower price point," says Jerry Cave, managing director for Hafler. "We've matched Hafler's Trans-ana amplifier technology to a two-way speaker system to provide the ultimate in sound, reliability and flexibility."

The TRM6 is magnetically shielded, is based on Hafler's superior Diamond topology Trans-nova amplifier technology, and is designed to fill the monitoring needs of music recording studios, film and video post production houses, professional and home surround sound applications, remote trucks and mastering facilities. The TRM6 is a bi-amped, two-way system offering a free field frequency response of 55Hz to 21kHz, +/- 2dB. The peak acoustic output per speaker pair using music as a sound source at 1m is 120dB or greater, accommodating the ever-growing dynamic range needs of digital audio playback.

The TRM6 incorporates a 1-inch soft dome tweeter high fre-



TRM10s

Circle (223) on Free Info Card or go to www.beradio.com

quency driver and a 6 1/2-inch polypropylene cone low frequency driver. The front panel includes a POWER/CLIP/THERMAL LED display. The rear panel has XL Rand RCA inputs, unbalanced/balanced DIP switch, input sensitivity DIP switches, tweeter/woofer mute DIP switches, bass and treble shelving DIP switches, IEC standard line input/AC line fuse.

The TRM10s is a combination of Hafler's latest class G Trans-ana amplifier circuitry coupled to a 10-inch subwoofer and, like the TRM6 and TRM8, the TRM10s is entirely custom designed and manufactured by Hafler and the Rockford Acoustic Design Division for optimum performance.

"The TRM10s' relatively compact size coupled with its Hafler Trans-ana amp circuitry makes for the ideal companion to the Hafler TRM6 active monitor," says Gary Church, chief engineer for Rockford Acoustic Design. "The TRM10s is a universal system that will enhance any subwoofer application."

Jerry Cave, managing director for Hafler, says, "We incorporated our latest amplifier designs in the TRM10s, along with a subwoofer/enclosure system to provide a perfect companion to any small monitor. Its flexibility makes it a choice for literally any application where tight, deep bass is vital."

The TRM10s features a MOSFET output stage and class G/Trans-ana topology with a one-cubic-foot vented enclosure. The unit has a 200-watt amplifier and oversized power supply for wide dynamic range. The superwood cabinet (the same as the TRM6 and TRM8) has an exo-port for pure low frequency extension. The TRM10s has adjustable input sensitivity, an adjustable low pass of 24dB/octave Linkwitz/Riley crossover with 40Hz to 110Hz range, is complete with balanced XLR and RCA stereo inputs and has selectable phase control.

Designed and manufactured in the U.S., the TRM10s comes in a black matte finish and has a one-year warranty.

"The TRM6 Active Monitor Speaker and the TRM10s are the perfect complement not only to each other, but also to any monitoring situation," Cave says. "This active monitor system is becoming yet another industry standard for Hafler. The TRM6 and TRM10s system is a must for anyone who demands a powerful, accurate, yet highly economical active speaker system."

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THE NEW

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- oversized woofer magnet for low distortion
- magnetically shielded
- neodymium soft dome tweeter/waveguide assembly
- tweeter level adjustment switch

CROSSOVER

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- Zobel/series notch filter optimized crossover point

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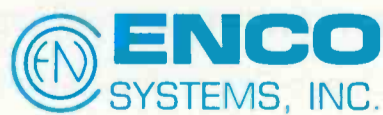
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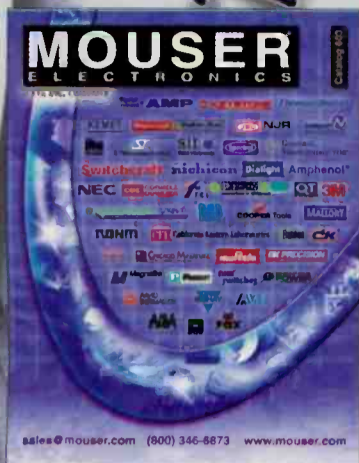
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Maycom Automation Systems

Handheld recorder: High-quality stereo recorder with MPEG encoding/decoding. Features extended temperature range, a rubber grip, a built-in, high-quality mic and removable compact flash cards. Also features a large, illuminated graphical display, a connector to an optical docking station and a balanced input for an external mic. Standard batteries, a smart battery pack, a headphone connector and an internal speaker are included.

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Field mixer/phone interface JK Audio



Remote-Mix Sport:

Built around the popular RemoteMix 3, with features added specifically for the needs of sport broadcasts. The three-input mixer (for play-by-play, commentary and crowd) also supplies three separate headphone outputs. Other features include a headphone cue input, an XLR output selectable between local mic mix or local plus backhaul mix, DTMF keypad, and universal handset interface. Ideal for use with POTS and ISDN codecs.

800-552-8346; fax 815-786-8502
www.jkaudio.com; info@jkaudio.com

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FM antenna Propagation Systems

FHR Series: The FHR series uses a rototiller design. Intended for high-power FM applications, it features a series-fed design with an internal feed point. Accepts power levels up to



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Portable power conditioners Superior Electric



Stabiline PPC Series: Protects all types of loads, including nonlinear switch-mode power supplies. Uses advanced ferroresonant technology with energy storage capability to block and attenuate voltage spikes and transients originating from the input-generating or the output-consuming power source. Provides continuous line voltage regulation to compensate for surges and brown-outs. Protects against sags and electrical noise by isolating voltage-sensitive equipment from utility power lines.

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www.superiorelectric.com
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Editing and restoration TC Works

Spark XL: The high-end version of Spark. Supports Pro Tools 24Mix and features audio-restoration facilities. The unit is a real-time digital audio editor for Mac OS with a new approach to stereo-based audio editing. It provides real-time processing and mastering, featuring a unique browser window, with integrated WAVE editing, project-file management and playlist all at once. Includes 12 VST real-time plug-ins. Adds real-time denoising and de-clicking to Spark's already impressive processing portfolio, allowing users to restore material with tape hiss or click problems with floating-point accuracy. The restoration facilities do not require a Pro Tools system to be present.

805-373-1828

fax 805-379-2648

www.tcworks.de; us@tcworks.de

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Fibre channel RAID storage Hammer Storage Solutions

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Ariane: A IRU audio processor designed to be a good

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**Prewiring services
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Prewired console harnesses and program racks: Part of the company's turnkey audio and RF services, the prewired console harnesses and program racks are designed as a more efficient means to build or upgrade radio facilities. The console harnesses are built with the specified connectors and then tested for performance. The program racks (pictured) are completely assembled and wired in the company's Indiana facility before being shipped to the customer's facility.

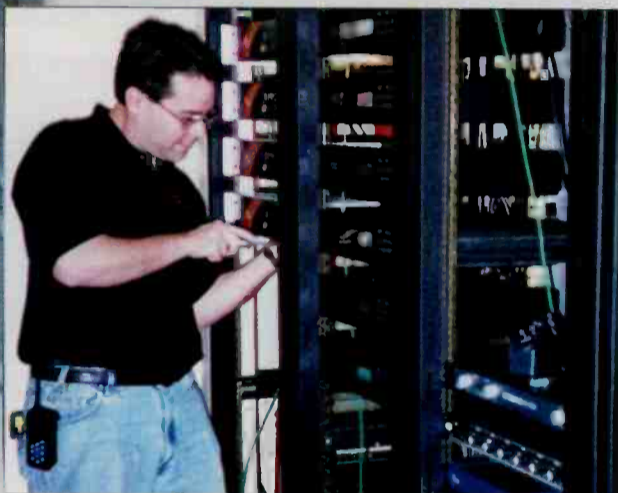
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www.broadcast-richmond.com

broadcast@infocom.com

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**System integrator
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Facility design/installation services: RDA Systems helps clients conceptualize, design, build and install broadcast facilities. The company offers leadership and manpower to complete full turnkey systems integration and special projects. Contact RDA to discuss your next facility expansion, consolidation or upgrade project. The company also operates systemsstore.com.

888-616-7980; fax 314-872-3009

www.rdasystems.com; info@rdasystems.com

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**DAW plug-in
Cedar**

DeCrackle: Complements Cedar DeNoise, DeClick and DeThump plug-ins for SaDiE. Uses floating-point processing. Designed to remove a different type of audio degradation than conventional click removal processes. The algorithms are dedicated to removing crackle as well as many forms of impulsive buzzes and some amplitude distortion. Allows for transparent restoration of severely damaged material. Undamaged signals pass without any changes.

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fax +44 1223 414118

www.cedar-audio.com

info@cedar-audio.com

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Prism Media Products**



dScope Series III: Features high-precision measurement and signal-generation for analog and digital signals. Can also provide carrier measurements, including jitter and display eye patterns. Runs on Windows NT or 9x. The system electronics are housed in an external unit that has a footprint about the size of a notebook PC. A flight case stores the unit and its accessories. Capabilities include FFT spectral measurement at 256k point resolution. Acquired data can be shared with other Windows applications.

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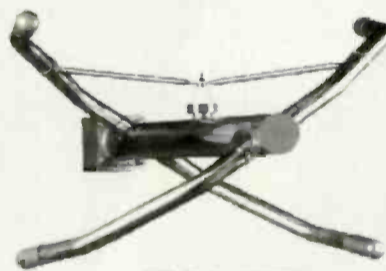
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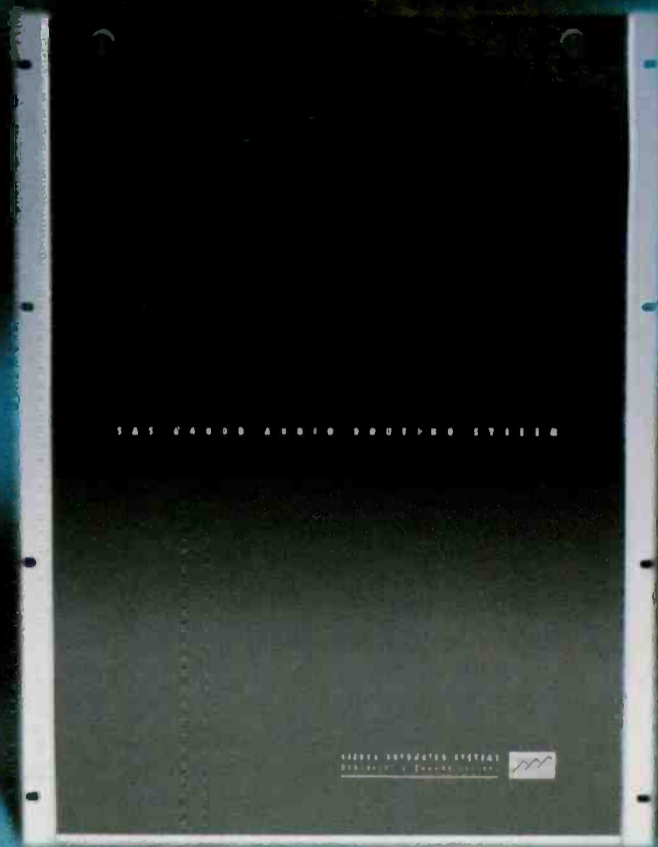
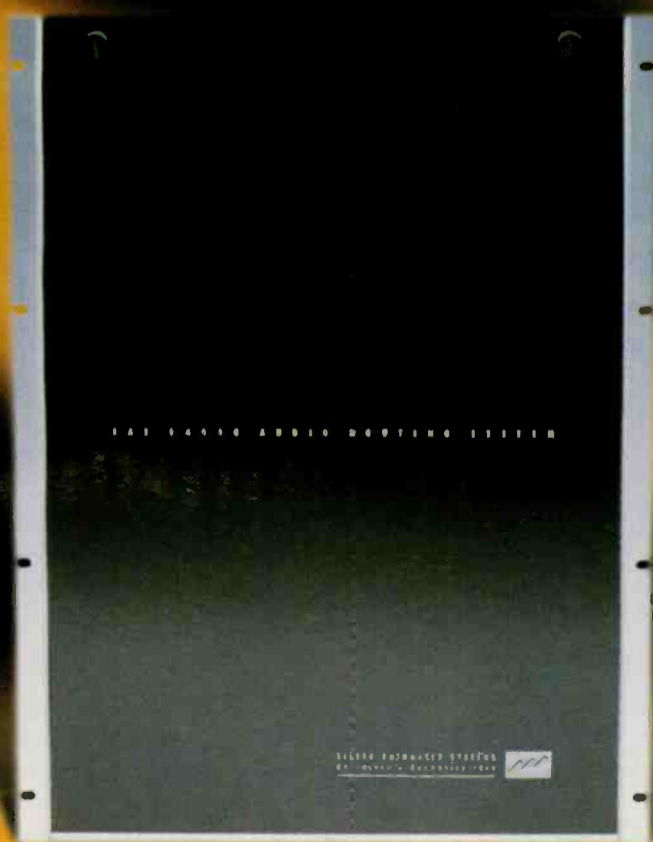
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Wheatstone Corp

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252-638-7000; fax 252-637-1285

www.wheatstone.com; sales@wheatstone.com

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Intelligent monitoring and protection

QEI

IMP: QEI produces mobile and transportable RF transmission systems that include as an option an intelligent monitoring and control system. The monitoring and control system is capable of making high-speed calculations on multiple RF output port loads and then addressing these changes by matching the output tuning to the changing condition. QEI recently applied this technology to replace an existing monitor system for an eight-station combiner and antenna in St. Louis, MO.

800-334-9154; fax 609-629-1751

www.qei-broadcast.com; qeisaless@qeibroadcast.com

Circle (298) on Free Info Card or go to www.beradio.com

Digital audio codec

Musicam USA

Prima LT Plus: Contains

three digital interface slots that holds any combination of ISDN terminal adapters: V.35, X.21, RS-422 or RS-530 interfaces. Users can send stereo audio to up to three locations and mono to six locations simultaneously via ISDN. Bonds multiple ISDN lines to send audio at rates of up to 384kb/s, and supports all standard bit rates through its other digital interfaces. Has 24-bit A/D and D/A converters, AES-3 digital I/O standard, and gold-plated Neutrik connectors.



732-739-5600; fax 732-739-1818

www.musicamusa.com; sales@musicamusa.com

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Natural-sounding harmony processor

DigiTech



Vocalist VR:

Its patented harmony algorithm allows the unit to maintain all the characteristics of the singer's voice for realistic-sounding backup vocals. Allows users to choose between chordal or scalar harmonies, select the key and scale, determine whether the harmonies are below or above their voices, assign individual mix levels for their voices and the harmonies, and add warm reverbs.

801-566-8800; fax 801-566-7005

www.digitech.com; support@digitech.com

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JBL Professional



LSR 25P: Features a 5 1/4-inch woofer (100W) with nonwoven carbon fiber composite cone and a 1-inch titanium composite diaphragm tweeter (50W) providing an accurate reference for workstations and edit suites. Bi-amplified design with 80W of low-frequency power and 40W of high-frequency power. Has front-panel volume and power controls, integrated mounting points for horizontal or vertical orientation, and is shielded for use next to video monitors. Include a built-in high pass for use with the optional subwoofer.

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www.jblpro.com; info@jblpro.com

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Eight-channel mic pre-amp/mixer

Audio Toys

8MX2: Combines eight mic preamplifiers into a 1RU mixer package. Up to six units can be linked together for multiple unit connection of the cue and mix buses. Includes a built-in limiter.



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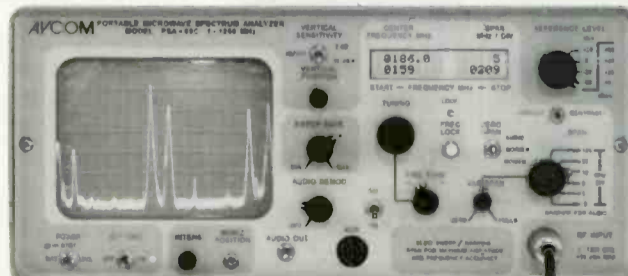
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Wiring reference

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Cable Pinout Booklet: Available to the public at no charge, this 31-page booklet includes definitions, pinouts and conversion charts. It is a pocket-sized reference guide that includes everything from pinout configurations for connectors from XLR to FK37 to a nanosecond chart.

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questions@clarkwc.com

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Studio mastering processor

TC Electronic

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www.neutrikusa.com

neutrikusa@aol.com

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Redbox additions

Independent Audio/Sonifex



RB-HD6 and RB-MM1: The former is a headphone distribution amp that distributes stereo audio to up to six different sets of headphones, each with its own volume control. Also receives override audio signal via a jack socket for each output channel. The RB-MM1, a mix-minus generator, removes the caller's voice from the station output so that it can be sent to the telephone line. Has inputs for a main stereo program feed from the mixer and a mono output to the mixer. There are mono XLR connections to and from the telephone hybrid.

207-773-2424; fax 207-773-2422

www.independentaudio.com; info@independentaudio.com

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musicmusicmusic

Website solutions: The company is an RIAA (Radio Industry Association of America) licensed webcaster that helps you make your website a revenue generator. Produces "Internet Radio," customized music programs for your station's website. The company can create the music your audience wants to hear and make it available around the clock. Allows you to promote contests and loyalty programs as well as insert community-service announcements. The company will also redesign your website to maximize its appeal.

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Telos Systems

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216-241-7225

fax 216-241-4103

www.telos-systems.com

info@nogrunge.com

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Multiplexer

Harris

Intraplex Intralink-IP: The IP audio transport is designed to support future commercial use of IP-based, CD-quality, real-time stereo audio over Ethernet links for a variety of applications. These include delivery of audio content to servers or server networks for webcasting using streaming technologies as well as use of IP transport of programming across local and wide area networks. The applications for this technology include IP/Ethernet-based STL links and backup links, high-quality remote pickup links, interstudio communications and production feeds, and webcasting.

800-622-0022

fax 513-459-3890

www.harris.com

broadcast@harris.com

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96k audio analyzer

Audio Precision



is capable of individual and group harmonic distortion measurements. The company also has introduced APWIN 2.0.

800-231-7350; fax 503-641-8906

www.audioprecision.com; sales@audioprecision.com

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Powered subwoofer system

Yamaha

SW10: A bi-amped monitor speaker designed for broadcasting. Provides exceptional sonic quality and extremely flat response over a wide listening area. An 8-inch long-throw woofer housed in a bass reflex design cabinet provides deep and tight

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714-522-9011; fax 714-522-9522

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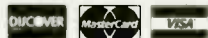
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Internet automation system

ENCO Systems

eDAD: At the NAB Radio Show in September, ENCO will introduce a very cost-effective solution to webcasting that combines a suite of tools which provide the flexibility, reliability and power needed by Internet broadcasters as well as traditional broadcasters. The product will set new standards in webcasting.

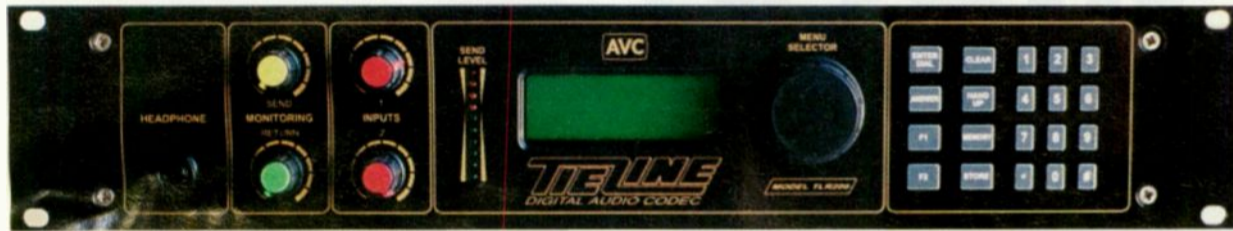
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Hello, Caller! Engineering Survey Uncovers Key Issues

Survey results made available by Broadcast Telephone Systems have identified the core concerns radio stations have in the area of caller handling systems. And, as one might suspect...they want it all.

The independent study, with a sample of more than 250 radio engineers responding, showed remarkable commonalities, regardless of station size, market or format. Respondents from coast to coast shared similar likes and dislikes...addressed, importantly, by the just-released PROtalk4 broadcast telephone system.

Plug and Play

Top of mind for most of the respondents was ease of use: the ability for busy on-air talent to quickly and efficiently operate the equipment. This kind of simplicity, quality and reliability outstripped even the specific feature set as the most important



factor in user satisfaction. Yet, at the same time, with studio space at a premium, products like these must be compact and streamlined.

The PROtalk4 meets this criterion admirably with its small-footprint housing and no-fuss icon-based buttons, backlit for even better visibility. Its redesigned front panel makes access and accuracy easy for even the most harried air personality. Speakerphone capability even lets talent keep their hands free for their myriad of other tasks.

Quality Matters

A common frustration voiced among respondents? Poor audio quality. The implementation of digital equipment throughout the station has brought this issue to the fore in every aspect of the studio-to-air chain. And nowhere does poor audio quality stand out more vividly than in call-ins, particularly when

several callers are conferenced on-air simultaneously.

The designers of the PROtalk4 remained sensitive to audio quality in every aspect of the product's design, basing the unit on independent digital hybrids for the most pristine sound possible. Features like automatic level balancing add to the consistency of the on-air sound.

How Many Lines?

Another conclusion revealed by the survey was that multi-line requirements are on the increase. Most respondents indicated that their needs are well served by between two and four lines, rather than with an elaborate multi-line phone system. The PROtalk4 squarely targets the real-world need with four high-quality channels which can be easily accessed and managed.

Conferencing among lines, likewise, is a need not being met by many systems...and it is a need that can only be expected to become more widespread. With the growing trend toward syndicated programming, for instance, an on-air operator might need to connect calls from many different regions simultaneously. The PROtalk 4 demonstrates, however, that conferencing need not be expensive. The unit can readily conference together up to four different users, with the same high quality applicable to a single-line call.

Complete Results Available

Broadcast Telephone Systems' Martin Boyson said that the survey was a guiding light throughout the design phase of the PROtalk4's development. "It was important to us that we begin from a current needs assessment and design toward those needs, rather than retreading the old ground of many existing products in this category. In the PROtalk4, we honestly feel we've achieved the best balance between the two essentials of quality and ease of use, at a price which stations will find very manageable whatever their budgets." Boyson added that requests for complete survey data and more information can be made through www.broadcast-telephones.com, toll free at 1-888-890-7424, or via fax at 250-260-2871.



Caller... are you there?

Are you there caller...?

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Plus, the PROtalk4 stands up to your most demanding work environment, with a robust but elegant housing, compact footprint, and straightforward rackmount connections.

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- Adjustable level controls
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DataLine: Field expandable to accommodate the smallest or largest transmission facility, the system provides standard features such as remote dial-up access using laptop or handheld computers as well as touchtone-activated voice operation. The unit can also be used with the state-of-the-art RF-Host multiple site-control system and intermixed in any combination of Electronic Associates equipped sites.

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ANT75D3	DIPOLE ARRAY	66-88 MHz	3 to 6 dBd	1000W	\$1595.00
ANT90D	SINGLE DIPOLE	88-108 MHz	1 to 2.5 dBd	500W	\$578.00
ANT90D3	DIPOLE ARRAY	88-108 MHz	3 to 6 dBd	1000W	\$1495.00
ANT150D	SINGLE DIPOLE	138-174 MHz	1 to 2.5 dBd	500W	\$250.00
ANT150D3	DIPOLE ARRAY	138-174 MHz	3 to 6 dBd	500W	\$510.00
ANT150D6-9	DIPOLE ARRAY	138-174 MHz	6 to 9 dBd	500W	\$872.00
ANT450D	SINGLE DIPOLE	406-512 MHz	1 to 2.5 dBd	500W	\$198.00
ANT450D3	DIPOLE ARRAY	406-512 MHz	3 to 6 dBd	500W	\$467.00
ANT450D6-9	DIPOLE ARRAY	406-512 MHz	6 to 9 dBd	500W	\$782.00
ANT150Y7	3 ELEMENT YAGI	148-174 MHz	5 dBd	500W	\$434.00
ANT195Y5	4 ELEMENT YAGI	174-216 MHz	5 dBd	500W	\$495.00
ANT450Y7	4 ELEMENT YAGI	450-470 MHz	7 dBd	500W	\$247.00
ANT850Y10	7 ELEMENT YAGI	806-896 MHz	10 dBd	500W	\$214.00
ANT930Y12	12 ELEMENT YAGI	900-960 MHz	12 dBd	500W	\$520.00
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ANT850F6	COLLINEAR	806-896 MHz	6 dBd	500W	\$712.00

CAVITIES

MODEL	TYPE	FREQ.	BANDPASS	ISOL.	PWR.	LIST
TWPC-1005-1	5" Single Pass	88-108 MHz	+/- 50 KHz	20 dB	350W	\$248.00
TWPC-1005-2	5" Dual Pass	88-108 MHz	+/- 75 KHz	45 dB	350W	\$531.00
TWPC-1005-3	5" Triple Pass	88-108 MHz	+/- 100 KHz	60 dB	350W	\$817.00
TWNC-1005-1	5" Single Notch	88-108 MHz	+/- 50 KHz	25 dB	350W	\$248.00
TWNC-1005-2	5" Dual Notch	88-108 MHz	+/- 75 KHz	55 dB	350W	\$531.00

TRANSMITTER COMBINING SYSTEMS

MODEL	DESCRIPTION / FREQ.	LIST
TW930-2HRA1-SL	900 MHz Hybrid STL Combiner 2 Channel 25 Watt 70 dB isolation	\$1,597.00
M101-900-2TRMH	900 MHz Hybrid STL combiner 2 channel 150 watt - Expandable	\$3,918.00
M101-900-4TRMH	900 MHz Hybrid STL combiner 4 channel 150 watt - Expandable	\$7,538.00

ISOLATORS

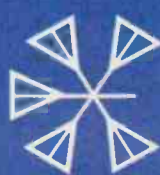
MODEL	TYPE	FREQ.	ISOL.	PWR.	LIST
T-103	Single Isolator	66-108 MHz	35 dB	150W	\$461.00
T-1060	Dual Isolator	66-108 MHz	70 dB	150W	\$904.00
T-1530	Single Isolator	118-174 MHz	35 dB	150W	\$461.00
T-1560	Dual Isolator	118-174 MHz	70 dB	150W	\$904.00
T-4530	Single Isolator	406-512 MHz	35 dB	150W	\$461.00
T-4560	Dual Isolator	406-512 MHz	70 dB	150W	\$904.00
T-8630	Single Isolator	806-960 MHz	35 dB	150W	\$461.00
T-8660	Dual Isolator	806-960 MHz	70 dB	150W	\$904.00

FILTERS

MODEL	TYPE / DESCRIPTION	FREQ.	PWR.	LIST
TLF-90	TX Low Pass Filter	88-108 MHz	400W	\$159.00
TWX50	RX Crystal Filter - Specify Freq.	30-108 MHz	1 mW	\$1,075.00
TWX150	RX Crystal Filter - Specify Freq.	108-216 MHz	1 mW	\$1,075.00

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MODEL	DESCRIPTION / FREQ.	LIST
Model 44A	Broadband Wattmeter 25 MHz to 1000 MHz	\$591.00
Model 44AP	Model 44A with -40 dB sampling port	\$642.00
Model 44L1	HF/VHF Broadband Wattmeter 2 MHz to 200 MHz	\$591.00
Model 44L1P	Model 44L1 with -40 dB sampling port	\$642.00
TC44	Carrying case for all Telewave Wattmeters	\$85.00
TWL-35	Test Load (35 Watt)	\$79.00
TWL-60	Test Load (60 Watt)	\$92.00
TWL-150	Bench Test Load (150 Watt)	\$305.00
TWL-300	High Power Bench Load (300 Watt)	\$566.00



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Dual channel 15-band EQ Applied Research & Technology



342 Dual EQ: Features constant Q circuitry, 70mm center detent sliders with selectable boost or cut range of 6dB or 12dB, balanced XLR, 1/4-inch and unbalanced RCA input and output connections, and high- and low-pass filters. Also features analog level metering, variable input controls, signal clip level indicators, ground lift switch, internal power supply and selectable line voltage. The rugged, all-steel chassis occupies 2U rack spaces and is intended for installation into standard 19-inch equipment racks. Comes with a one-year warranty.

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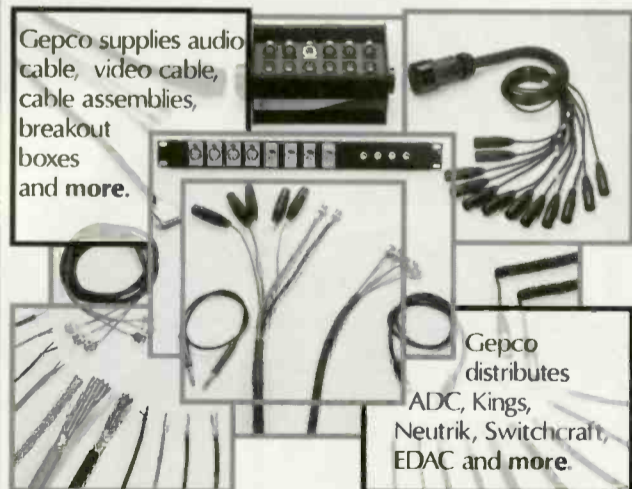
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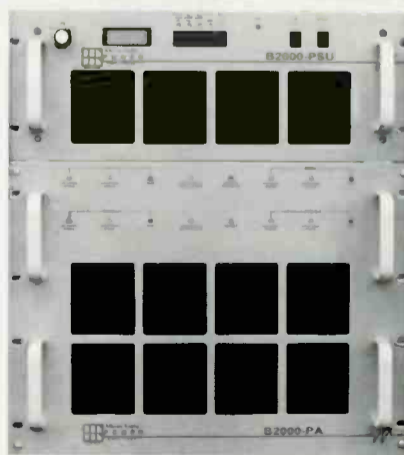
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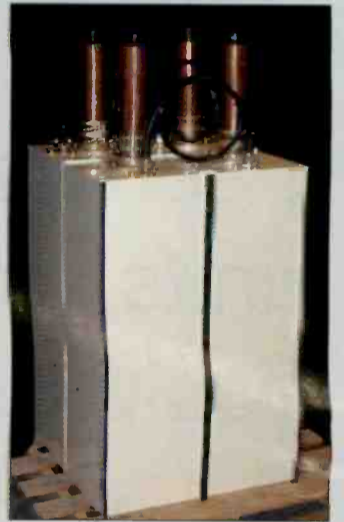


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FM combiner **Shively Labs**



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One-channel broadcast automation system **Zenon Media**

Audio-Cast: Composed of the Randplan, which makes a random selection of music titles or jingles and generates a program for the day as well as the Send Cast module that allows for broadcast of a music program on one stereo channel. This module provides "start/stop on time" commands, and the user can edit transitions between titles using the crossfade editor function. MS-Access is the database engine.

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RF accessories

Coaxial Dynamics

RF power measurement and termination equipment: Located in Cleveland, the company has been a leading manufacturer of precision equipment for the measurement and termination of RF power for more than 25 years. The company's products are used in a variety of applications throughout the world. Several models of wattmeters and RF loads are available for power ranges from 0.1W to 100,000W. Each wattmeter accepts any of a range of plug-in measuring elements for specific power levels and frequency ranges. These elements simply plug into a short section of coaxial line and the measurements are clearly displayed on the three-scale wattmeter.

800-COAXIAL; fax 216-267-3142

www.coaxial.com

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Facility support

Studio Technology

Broadcast furniture: Founded in August of 1991, the company provides studio furniture to clients across the U.S. It operates out of a 6,700 square-foot cabinet shop located in the western suburbs of Philadelphia. The company provides furniture-design services as well as complete delivery and installation of the furniture it produces. Its goal is to provide you with furniture that meets the ergonomic needs of your studios as well as your budget.

610-640-1229; fax 610-296-3402

www.studiotechology.com

sales@studiotechology.com

Circle (396) on Free Info Card or go to www.beradio.com

Digital communications

DH Satellite

Antennas: The NXL384 range is available in analog or digital versions. Designed as a cost-effective solution to audio communications across permanent digital networks, the unit provides the benefits of apt-X to STLs and studio-to-studio networking. Apt-X technology delivers uncompromised audio quality and lowest available coding delay to the broadcaster. The NXL384 offers features such as auxiliary data, alarm functions and integral backup circuitry to ensure program continuity.

800-627-9443; fax 608-326-4233

www.dhsatellite.com

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Analog audio generator

Neutrik

Minirator MR1: Includes a comprehensive set of audio test signals as required in broadcast audio environments. Provides sinusoidal signals over the entire audio band, from 20Hz to 20kHz at levels as low as -76dBu up to +6dBu, including sweep capabilities at various speeds. Alternative level units are dBV and volts. A dedicated polarity test signal enables the user to unveil devices with inverse polarity. The white and pink noise signals with low crest factors and high-repetition rates act as an ideal source for room acoustic measurements, frequency response equalizations and signal evaluation.

732-901-9488; fax 732-901-9608

www.neutrikusa.com; neutrikusa@aol.com

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RDS/RBDS encoder

Inovonics

Model 711: This collaborative effort with Aztec Radiomedia is being manufactured under license from the French FM broadcast equipment firm. Easily interfaces with analog and digital stereo generators and excitors. Conforms to the Universal Encoder Communication Protocol (UECP), making it capable of dynamic operation through the built-in serial data port. This allows immediate transmission of direct advertising, real-time contests and billboard information. Song title and artist can be displayed on the listener's radio using supplied software that automatically interfaces with popular digital automation systems. All available RDS/RBDS data groups common to domestic NRSC and European EBU standards are accommodated with appropriate software.

800-733-0552; fax 831-458-0554

www.inovon.com

Circle (377) on Free Info Card or go to www.beradio.com

Low-power antenna

Antenna Concepts

Ultra Tracker LP: Single-lobe performance designed for LPFM, where every watt is critical. Broadcasters get the most out of precious power, superior building penetration, while eliminating RFR/RFI issues in town.

530-621-2015; fax 530-622-3274

www.antennaconcepts.com

Circle (397) on Free Info Card or go to www.beradio.com

EAS control interface

Circuitwerkes

EAS Trigger IV: The EAS Trigger IV interfaces relay closures from your automation or other control sources to trigger RWT or RMT events for single or multiple, co-located stations on the SAGE ENDEC EAS unit. Triggers for other units will soon be available.

352-335-6555; fax 352-380-0230

www.circuitwerkes.com

info@circuitwerkes.com

Circle (233) on Free Info Card or go to www.beradio.com



Digital exciter

Nautel

NE50: A broadband, fully digital 50W FM exciter using direct digital synthesis (DDS) technology to generate the FM signal. DDS provides a 32-bit signal processing to digitally construct the carrier signal with a numerically controlled oscillator. Modulation in the digital domain provides a perfectly linear system with superior audio fidelity sustained over time. Makes possible an all-digital path from the studio to the FM modulator. Simple front-panel frequency selection requires no tuning adjustment and audio performance is not affected by channel selection. This broadband solid-state amplifier is capable of up to 55W with adjustable output to 1W.

902-823-2233; fax 902-823-3183

www.nautel.com; info@nautel.com

Circle (404) on Free Info Card or go to www.beradio.com

RF equipment

Telewave

Antennas and RF accessories: Designer and manufacturer of high-quality RF equipment for domestic and international markets. The company's products provide the vital link between the transmitter, receiver and antenna. Efficient power transfer from multiple transmitters, elimination of intermodulation and selection of desired signals are some of the characteristics of the company's products, many of which began as custom designs for specific requirements. Products include transmitter combiners, receiver multicouplers, filters and cavities, and test equipment.

800-331-3396; fax 650-968-1741

www.telewave.com; sales@telewave.com

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EAS encoder/decoder Gorman-Redlich

EAS1: This feature-rich 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 display 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 pushbutton in the on-air control room.

740-593-3150; fax 740-592-3898

www.gorman-redlich.com

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Composite processor Solid Electronics Labs



The Model DCP-1A dynamic composite processor performs the functions of instantaneous and composite low-pass filtering in a single structure, thereby permitting maximum loudness, filter overshoot control and dynamic range. The design employs an active linear amplifier as the limiting device. Its filter structure is configured in two separate sections, each with its own overshoot compensation circuit. Front-panel LED indicators allow direct indication of clipping level, input level and overshoot compensator threshold levels.

610-353-9449; fax 610-356-8449

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Compact two-way loudspeaker Hafler Professional

M5: This nearfield passive monitor is magnetically shielded and designed to work alone or in conjunction with Hafler's line of professional amplifiers as well



as the TRM10s active subwoofer. The monitor's 5/8-inch thick MDF cabinet has an internal volume of 5.3 liters and a front firing slotted port tuning the system to 70Hz. The low-frequency character allows a smooth response extending down well below system tuning.

888-HAFLER1

fax 602-894-1528

www.hafler.com

sales@hafler.com

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RF products OMB America

Antennas and transmitters: Specializes in products for radio and TV broadcasting. Sells everything from amplifiers to high-powered transmitters — all within a reasonable price range. The company sells you what you need, installs it, tests it, gets it up and running, and still manages to keep a friendly attitude. For more information on the company, contact the number e-mail address listed below.

305-477-0974

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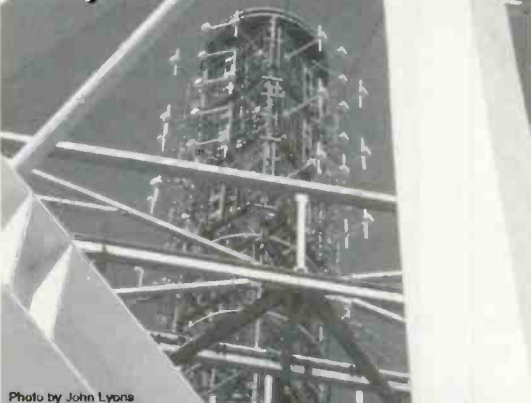


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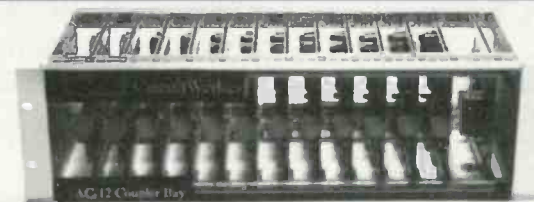
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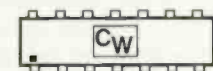
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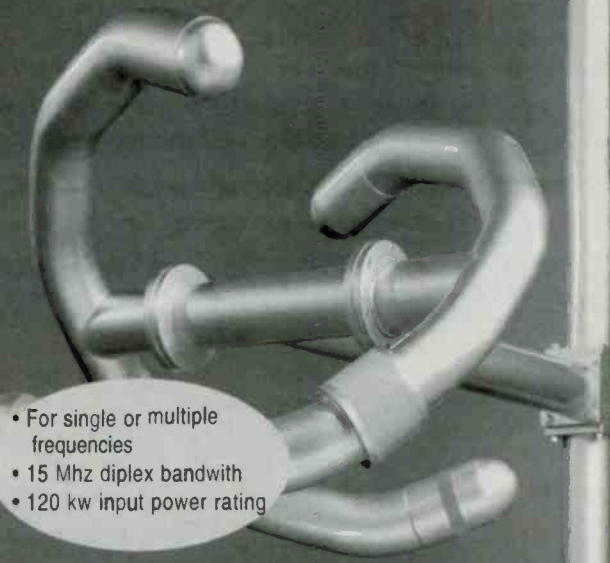
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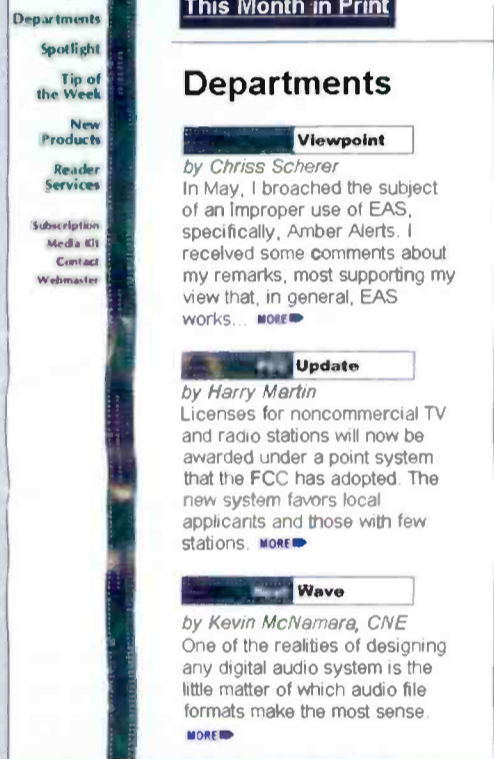
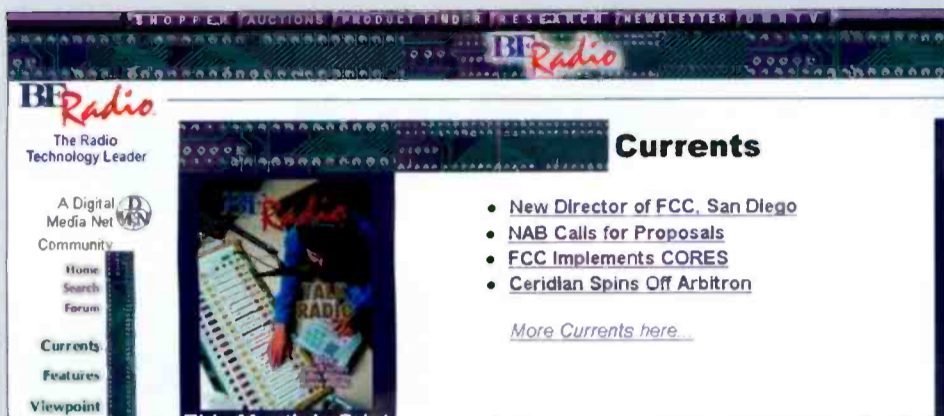
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111	128	145	162	179	196	213	230	247	264	281	298	315	332	349	366	383	400	417	434	451	468	485	502	519	536	553	570
112	129	146	163	180	197	214	231	248	265	282	299	316	333	350	367	384	401	418	435	452	469	486	503	520	537	554	571
113	130	147	164	181	198	215	232	249	266	283	300	317	334	351	368	385	402	419	436	453	470	487	504	521	538	555	572
114	131	148	165	182	199	216	233	250	267	284	301	318	335	352	369	386	403	420	437	454	471	488	505	522	539	556	573
115	132	149	166	183	200	217	234	251	268	285	302	319	336	353	370	387	404	421	438	455	472	489	506	523	540	557	574
116	133	150	167	184	201	218	235	252	269	286	303	320	337	354	371	388	405	422	439	456	473	490	507	524	541	558	575
117	134	151	168	185	202	219	236	253	270	287	304	321	338	355	372	389	406	423	440	457	474	491	508	525	542	559	576

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