

RADIO**WORLD**

Source Book & Directory



2018

Annual Reference Guide and Supplement to Radio World

World Radio History



SANITIZED FOR YOUR PROTECTION



SOME WORDS SHOULD BE OBSCENE AND NOT HEARD



Eventide Broadcast Delays are designed to keep profanity off your air, and angry listeners, embarrassed advertisers, and the FCC off your back. We invented the obscenity delay and have a solution for stations large and small that provides up to 80 seconds of the highest quality revenue and license-protecting delay.

Our new HD compatible BD600, 24-bit delay, comes standard with AES/EBU, and provides up to 80 seconds of memory — twice as much as other delays. There are fully adjustable Delay and Dump functions, and a Sneeze function which “edits” audio entering the delay, allowing the host to sneeze, cough, or make a short comment without being heard on air.

The BD600 offers two different methods of delay buildup and

reduction: Eventide’s catch-up and catch-down system, and an exclusive fast-entry-and-exit feature which allows starting a broadcast with the delay already built up to a safe amount and ending it with a rapid reduction of delay.

For HD, the BD600 offers MicroPrecision Delay™ mode which allows up to 10 seconds of delay to be adjusted in real time in 100 nanosecond increments. This is useful for synchronizing analog and digital signals while on-air, without audible artifacts, to maintain a seamless user experience.

Whatever your size, whatever your format, you can’t expect to protect the integrity of your air and the foundation of your business without an Eventide Broadcast Delay in your rack.

Eventide®

HD COMPATIBLE

"Talent has come to expect the same level of quality and convenience they have at their home studios, and with Tieline's ViA, that's exactly what we are able to provide."

-Jim Hibbard/Pacific Mobile Recorders

The Remote Solution of Choice...



Merlin
PLUS

ViA and Merlin PLUS Deliver More Options for Live Remotes

Innovative radio remotes in new locations can be challenging, however Tieline's ViA remote codec has up to 6 IP connectivity options, plus optional ISDN and POTS modules.

Connect ViA to Merlin PLUS at the studio with SmartStream PLUS dual redundant IP streaming and deliver high fidelity audio beyond expectations in the most demanding broadcast environments.

- Full duplex stereo program plus separate full duplex IFB communications
- Fuse-IP (Bonding)
- Schedule, dial, manage and hangup connections automatically
- Adjustable input EQ & compression, plus IGC & AGC limiting
- 6.5 hours of power with one internal battery in the ViA (remote end).
- POTS, ISDN, SIP, IP, LTE, Wi-Fi and USB Modem connectivity



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World Radio History

Technology Suppliers Advance Industry Innovation

Here we present your annual Radio World Source Book & Directory, a resource for people working in and around the U.S. radio broadcasting industry.

From “visual” and “virtual” radio products to processors, alerting to test & measurement, IP codecs to high-capacity STLs, these products are part of your radio operation’s bread and butter. The companies in these pages can help you outfit your radio studio, network, RF plant or new media platform.

Every year as the leaves turn here in the Middle Atlantic region, we invite all companies in our database to submit their contact information and brief descriptions of what they offer in support of the U.S. radio broadcast industry.

You’ll find the respondents listed alphabetically in the Vendor & Product Directory section starting on page 24.

Companies also tell us the type of hardware or service they offer; find those categories in the Supplier Cross Index starting on page 18.

On pages 6–17, sponsors highlight key products in the Profiles in Excellence section. Starting on page 42 are sponsored product stories that originally appeared in Radio World in recent months.

Readers turn to Radio World to learn about familiar broadcast technology categories such as RF, audio over IP, and facility infrastructure. They also read RW to consider how smart speakers, mobile behaviors, social media, connected cars, cloud technologies and other new media trends and platforms affect their jobs and careers. These trends play out in this directory too.

My inbox is always open to you at radioworld@nbmedia.com.

— Paul McLane
Editor in Chief



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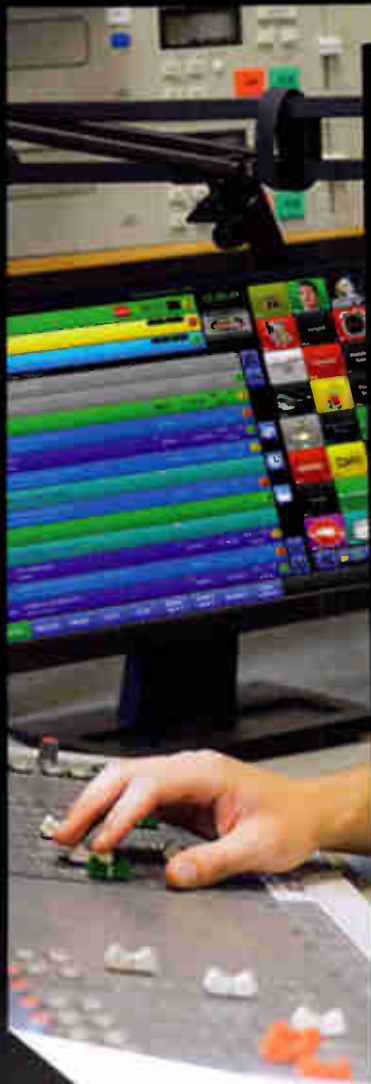
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Open the door to *your* possibilities!



ON THE AIR

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TRM Corporation Uses ACCESS NX For Everything From Sports To Interviews

Tom MacDonald owns TRM Corporation, a company that provides remote broadcasting services to a wide range of clients. "We do remotes for everybody from the New York Jets, to Sirius, to little mom-and-pop stations," said Tom. "My gear is everything from a satellite truck to a mixer. You name it, I own it."

TRM Corporation bought one of the first ACCESS NX units that was shipped. "We always need the latest technology, and I was very happy to get it. There are a lot of features we've been hoping for. ACCESS NX has a 1/4" jack for a headset, which makes remotes much easier. Plus, microphone attenuation works with a wider range of headsets. These seem like small changes," said Tom, "but they make a big difference."

"Plus, the agility to have two mics without adding a mixer is fantastic," said Tom.

TRM Corporation was contracted by Sirius XM to handle a remote from Yankee Stadium during the American League



TRM Corporation's ACCESS NX at the American League Championship Series

Championship Series. "We were handling pre- and post-game talk for Sirius XM's MLB Network Radio," said Tom. "I knew ACCESS NX would impress my client — and it did."

Tom also used ACCESS NX to handle a remote with the conductor of the Philadelphia Orchestra. "I'd never been able to get a solid signal out of that room before," said Tom, "but with ACCESS NX, I did a 90-minute interview with an AT&T air card, and it sounded great."

"I own 8 or 9 ACCESS 2USB portables to handle radio row events, because they're just easy - I can set them up and hand them to one of my guys, and they can run it with no help," said Tom. "But now, all of my employees want to use the ACCESS NX. Everybody wants to see it — it turns heads."

"The GUI is smooth to work with, and it's instantly familiar. And the little green flashing light that tells you if you're overmodulated at a glance is cool as well," said Tom.

"It's great equipment. It works well, and I feel like I could use it for anything."



TRM Corporation's ACCESS NX at a Veteran's Day Parade, broadcasting from the back of a Cadillac.

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COMREX

Daniel Anstandig

CEO

FUTURI MEDIA

Few entrepreneurs can say that they were able to turn one modest round of angel funding into a multi-million-dollar company with 100 people operating in 20 countries. Futuri Media is one such company. With a commitment to building a culture around innovation, passion, speed, proactivity and trust, Anstandig and Futuri Media hold patents for innovative technology in 152 countries.

A two-time NE Ohio Ernst & Young Entrepreneur of the Year finalist, Anstandig leads Futuri's growth through a relentless work ethic (spending more than 25 weeks per year on the road) and sincere appreciation and development of Futuri's leadership team.

The company has grown 40%+ YOY consistently for five years, achieving 88.7% client retention. Most recently Futuri was named on INC 500's prestigious list of America's Fastest Growing Companies for a fourth year in a row, just weeks after being recognized as one of Cleveland's Top Workplaces of 2017 and being coined Best Tech Company of the Year by OHTec's Best of Tech Awards.

Futuri has acquired two companies in the last 18 months: in 2015, the company acquired Canadian-based international streaming media service StreamOn and broadcast sales consultancy TopLine Matters. Both acquisitions were only modestly profitable at the time of their acquisition. In the first quarter of each acquisition, Anstandig increased the revenue and profitability of both companies



through innovation and business development. In the case of TopLine Matters, Anstandig transformed a boutique agency business into a scalable SaaS product within 90 days of closing on the acquisition, increasing customers by 469% and increasing revenue by 424%.

Anstandig's business model for Futuri is unique, and it demonstrates his understanding of the distinctive opportunities of the broadcast marketplace.

Anstandig created a lucrative network syndication business model where clients can trade Futuri's services for unsold commercial time, which is then sold to major national sponsors such as McDonald's, Home Depot, Verizon and Pepsi.

Anstandig has advised The Wall Street Journal, CBS News, Clear Channel R&D, the White House Commission on Remembrance, Glencoe-McGraw Hill

and various broadcasting companies in the United States, Canada and Europe on digital audience and revenue growth strategies. Daniel's research and editorials on radio and interactive media have been published in The Wall Street Journal and Billboard Magazine, and industry trades such as Radio World and Radio Ink Magazine.

Anstandig is a frequent speaker for the National Association of Broadcasters, state broadcasters associations, Radio Ink Convergence, Canadian Music Week, RadioDays Europe and other conventions around the world.

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From the team that brought you LDR



PROFILES IN EXCELLENCE

Jim Wood

Founder

INOVONICS, INC.

Few companies can claim to be relevant in any industry after 45 years, but Inovonics continues to innovate new products and lead the radio broadcast industry thanks to a great partnership between our founder Jim Wood, CEO/President Ben Barber, and the talented engineering/production team at Inovonics Inc.

Now in his 70s, Jim is still very active at Inovonics. He works with the engineering team to develop new products and is responsible for authoring all of our product user manuals. In the last three years, Inovonics has launched no fewer than 16 new products, including six new products at NAB 2017.

Examples of recent technological innovations for the radio broadcast industry would be the 808 JUSTIN FM/HD-Radio Time Alignment Processor (2015), the 223 Multimode Audio Processor (2016), the 531N FM Modulation Analyzer with Network Control (2015) and the INOmini SiteStreamer family of remote receiver-monitors for AM/FM/HD/DAB-DAB+.

Jim Wood founded Inovonics in 1972 with Mark Drake. That year they invented their first product: a solid-state replacement tape recorder assembly for the AMPEX 350 series, which was a workhorse of the recording and radio broadcast industry at that time. The product was an unqualified success, and in its initial versions, nearly 10,000 channels were sold.

Since then, Jim has made important contributions to the radio broadcast industry by actively developing useful



products. In the early 1970s, Jim developed Inovonics' first audio processor—the 220 Audio Level Optimizer—followed by numerous single and multiband processors, stereo generators, and AM and FM modulation monitors. Many of these products were industry firsts and can still be found in studios all over the world. Some examples include the DAVID I FM Audio Processor from 1992, the Multiband Audio Processor-MAP II, and the 222 AM Broadcast Compliance Processor from 1987, a product that is still in demand to this day.

In the mid-1990s, Inovonics was one of the first U.S. manufacturers to develop RDS/RBDS encoders; it remains one of the few broadcast firms to offer a full product line designed and built entirely in the United States.

Throughout his long career in the broadcast industry, Jim has registered a number of patents and has worked in partnership with other manufacturers for OEM development.

Patents:

- 1974: Frequency Selective Limiting Means
- 1988: Filter Overshoot Control Means
- 2004: Polarity Independent Peak Processing (PIPP).

OEM Development:

- 1974: Zi-Tech Inc., TB-100 Precision DC Voltage Standard
- 1976: Ampex Corp., TS-40 Tension Servo, 240 and 241 'DYNEX' Adaptive Noise Suppressor
- 1982: Westrex., RA1125 Mag-Film Insert Recording Electronics; 250 Programmable Multiband Broadcast Processor.

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 - ▶ RDS Encoder: Converts HD Pad Data, IP-Stream Meta Data or IP Telnet Data
 - ▶ Audio Processor: Powerful 3-band, 10 factory resets, Dayparting
 - ▶ No Dead Air: Assignable failover audio backup
 - ▶ Dynamic Web Interface for remote control & monitoring
 - ▶ Alarms & Notifications via email, SMS messages, SNMP support



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PROFILES IN EXCELLENCE

Frank Foti

CEO

THE TELOS ALLIANCE

Frank Foti is CEO of the Telos Alliance, founder of Omnia Audio, and a pioneer in broadcast audio processing and broadcast engineering. His numerous technical achievements have helped to shape the sound of broadcast audio for the last 40 years. His list of inventions and innovations is exhaustive. Frank is responsible for Non-Aliasing DSP Clipper and Low-IMD Clipping technologies, both of which push the envelope in terms of the high level of performance that can be attained in radio broadcasts. He designed the first all-digital FM audio processor and first DSP-based broadcast audio processor. Additionally, Frank is developer of Single Sideband Suppressed Carrier Technology for FM. By taking advantage of today's computing power, he has brought Single Sideband FM stereo from a theory to a usable tool in the broadcaster's transmitting toolbox. He is an innovator of new tech and features in broadcast processing, including the first broadcast processors to have AES composite output and the first broadcast processor with 48 kHz audio sampling rate.

It's not only his personal thought leadership in the area of audio processing but his leadership as the CEO of the Telos Alliance that has led the way, with innovation across all six Telos Alliance brands: Telos Systems, Axia Audio, Omnia Audio, Linear Acoustic, 25-Seven Systems and Minnetonka Audio.

He created the creative and thinktank-like environment that led to the following:

- Axia inventing Audio over IP for broadcast.
- Telos Alliance being the first company in the United States to license MP3.
- Telos Alliance inventing Livewire®, the first fully broad-



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cast-capable AoIP system that includes audio, GPIO control and advertising.

- 25-Seven creating Voltair and challenging the status quo in the ratings watermarking arena.
- Telos Alliance becoming a founding member of the Media Networking Alliance and staunch proponent of the AES67 interoperability standard.
- Omnia developing the μ MPX™ audio codec, which transports high-quality multiplexed FM signals over a small 320 Kb/s data pipe.

Frank has received numerous awards for his work in broadcast engineering, including the prestigious NAB Excellence in Engineering Award (2013) for his significant contributions, which, according to NAB, "have advanced the state-of-the-art in broadcast engineering."

Before his first company — Cutting Edge Technologies — joined

forces with Steve Church's Telos Systems (now the Telos Alliance), Frank was chief engineer at the legendary WMMS and WHK, where he got his start developing custom audio processing solutions for radio stations. His later work at KSAN and KNEW (AM) San Francisco and Z-100 (WHTZ) in New York cemented his reputation as a leader in the processing field. In fact, he helped take the latter from the worst radio station in New York to the No. 1 station in only 74 days. Thanks to Frank, Omnia processing products are now the choice of Top 100 rated stations in America, and are in use at virtually all major stations worldwide.

Frank continues to be not only the elder statesman of broadcast audio processing, but the innovator driving new technologies to market that are mimicked by competitors worldwide.

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PROFILES IN EXCELLENCE

Join the Remote Revolution With ViA

When you compare ViA with competing remote codecs the choice is clear. Tieline's revolutionary ViA codec delivers more IP choices and backup options than ever before over IP, ISDN and POTS.

6 IP Interfaces Available

Stream bidirectional high fidelity stereo program audio and separate full-duplex IFB using your choice of:

- Built-in dual band Wi-Fi.
- Dual USB ports for cellular modems.
- Internal LTE hardware module.
- Dual Ethernet ports.

Plus connect over ISDN or POTS as required using optional hardware modules.

Built-in Wi-Fi

ViA's built-in Wi-Fi connectivity and integrated web-portal expands connection options from hotels, fast food chains, or even a Wi-Fi hotspot on your smartphone! Tap to connect quickly and use Wi-Fi to stream program audio and IFB in seconds.

Dual Cellular USB Modems

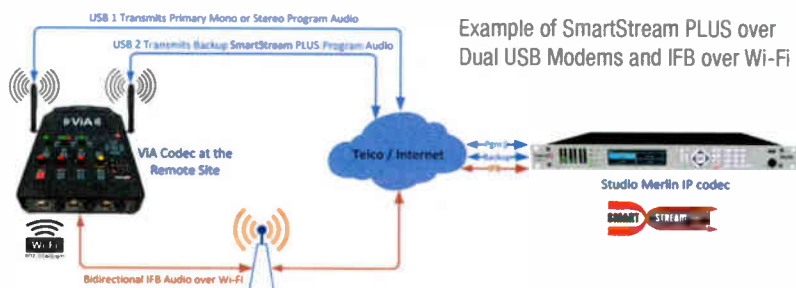
ViA supports a variety of pre-tested cellular USB modems out of the box. Bond data from multiple modems with Fuse-IP, or use two with SmartStream PLUS for dual redundant streaming.

Intuitive User Interface

Navigate and configure settings easily with ViA's color touch screen, which provides familiar and intuitive menu navigation, similar to using a smartphone. All codec settings can also be configured and controlled using the Toolbox web-GUI.

SmartStream PLUS & Fuse-IP

Tieline's revolutionary SmartStream PLUS is the benchmark for dual redundant IP streaming over the public internet and is included as standard. With Tieline's proprietary Fuse-IP data aggregation technology you can also bond data from multiple IP transports such as LANs, cellular modems or Wi-Fi, and increase connection bandwidth.



"Tieline's ViA incorporates flexibility, top notch design, and most importantly, high-end quality and performance."

Tim Dench, Station Manager and Radio and TV Instructor at Jeffersonville High School



"The ViA with SmartStream PLUS exceeded all expectations."

Malcolm Sully, Technology Manager, Nova 93.7

"The ViA blew me away, it's a great little unit!"

Simon Lovell, Technology Support Engineer, Nova 93.7

ViA Delivers #MoreOptions

Customize headphone monitoring and route any input to any output using the simple touch screen Matrix Router. ViA also delivers more input processing options than competing remote codecs, such as configurable input EQ and compression, plus input IGC and output AGC limiting.

Power on the Go!

ViA ships with a road case, power supply and internal rechargeable Lithium-ion smart battery, which delivers up-to 6 ½ hours of wireless broadcasting freedom.



Basic & Admin Modes

Use 'Basic Mode' to simplify operation by restricting user access to complicated network settings.

Contact Tieline and join the #ViARevolution today.

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The Remote Codec of Choice



ViA

Join the #ViARevolution



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The Codec Company

PROFILES IN EXCELLENCE

Gary Snow

President

WHEATSTONE CORPORATION

Gary Snow founded Wheatstone Corp. more than 40 years ago, creating what many consider to be one of the best audio design and manufacturing companies in the industry. Wheatstone is known by radio and TV broadcasters worldwide for its quality studio consoles and WheatNet-IP audio network.

Not too many people know that Gary played in a few small bands in his time. He'd get together in the evening with friends to play a little music, and from time to time he'd come up with an electronic goodie for his band buddies. In the early days, he even made specialized parametric equalizers. It's no surprise that when Gary was a teenager, he made customized repairs to guitar amps for his friends.

From the beginning, Gary was focused on — some would say obsessed with — making quality products. His first broadcast audio console was sold to WGBH in Boston in 1984, where it remained in service for 25 years. In the early days, he would go to the AES or NAB show with his square wave generator and scope to show people just how good the audio performance of these consoles was. Soon enough, he designed one of the first multitrack recording consoles. It was unique because it had patch bays built into it. Twenty years later, he'd



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revolutionize the industry again with tiny talent panels and other elements in an IP audio networked ecosystem that needed only a single Cat 6 cable to route audio.

Gary has always insisted on in-house manufacturing, with no jobbing out. At one point in the 1980s he decided that the company would build its own faders because he didn't want to be dependent on an outside supplier. In the '90s, when it seemed the entire industry began sending manufacturing elsewhere, Gary remained steadfast in his belief that quality and innovation come from total in-house control. In fact, Gary

was one of the first in the industry to invest in surface-mount technology, which then led to some amazing accomplishments in audio routing through IP networking. In 2016, under Gary's leadership, Wheatstone developed the first fully configurable audio console: the LXE.

Gary loves nothing more than to design audio products. We remember him building one-off band mixers in his attic back in the 1970s; now we walk out in production and marvel that our company is shipping thousands of products all over the world every month from this one building in North Carolina — all due to his vision and commitment.

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Adapt to new technology, new techniques, and new work-flows with LXE. Completely configure/reconfigure your console – every button, knob, and display on the surface is fully programmable using our intuitive ConsoleBuilder™ GUI/scripting interface.

With ScreenBuilder™ LXE, you can design dynamic custom touchscreen interfaces to augment LXE's extensive screen set. Beautiful to see and use.

Need more input faders? Enable up to four layers to double/triple/quadruple the number (up to 32) in the same footprint.

LXE is built to last in every way.



Learn more: wheatstone.com/lxe



SUPPLIER CROSS INDEX

This section helps you locate suppliers of types of equipment and service. Find contact information for these companies in the Vendor & Product Directory section. This list is based on information provided by the companies; suppliers are listed only if they checked a given category.

Acoustic and Building Materials

305 Broadcast
Auralex Acoustics Inc.
Clyde Broadcast
ProAudio.com
Radial Engineering Ltd.
SCMS Inc.
Studio Equipment
Transmitters 'R' Us

Antennas, Feedline and Waveguide

305 Broadcast
Alan Dick Broadcast Ltd.
AM Ground Systems
Ampegon Antenna Systems
Broadcast Warehouse Ltd.
BSW
DAWNco
Dielectric LLC
Electronics Research Inc. (ERI)
High Sound
Hodge Structural Engineers
Jampro Antennas Inc.
Kathrein-Werke KG
Kintronic Labs
LBA Technology Inc.
Myat Inc.
OMB America
ProAudio.com
Progressive Concepts
Propagation Systems
Inc. - PSI
SCMS Inc.
Shively Labs
Transmitters 'R' Us

Associations and Organizations

Grace Broadcast Sales
SCMS Inc.
Traffic Director's Guild of America

Audio Accessories

305 Broadcast
AEQ Broadcast International

AudioScience Inc.
Axia Audio
Broadcast Devices Inc.
Broadcast Tools Inc.
Broadcast Warehouse Ltd.
BSW
DEVA Broadcast LLC
DM Engineering
Glensound
Henry Engineering
Inovonics
JK Audio Inc.
Logitek Electronic Systems
meduci
O.C. White Co.
ProAudio.com
Progressive Concepts
SCMS Inc.
Studio Equipment
Telos Systems
Titus Technological Laboratories
Transmitters 'R' Us
Whirlwind USA
Yellowtec USA LLC

Audio Delays - Profanity and Diversity

25-Seven Systems
305 Broadcast
Bay Country Broadcast
Equipment Inc.
Broadcast Warehouse Ltd.
BSW
Clyde Broadcast
DaySequerra
DHD audio GmbH
Logitek Electronic Systems
Orban Labs
ProAudio.com
Progressive Concepts
SCMS Inc.
Sonifex Ltd.
Transmitters 'R' Us

Audio Distribution, Between Locations

2wcom Systems GmbH
305 Broadcast
AEQ Broadcast International
Arctic Palm Technology Inc.
Arrakis Systems
ATI
Bay Country Broadcast
Equipment Inc.
Broadcast Devices Inc.
Broadcast Tools Inc.
Broadcast Warehouse Ltd.
BSW
Comrex Corp.
DEVA Broadcast LLC
Digigram
GatesAir
Jutel Oy
ProAudio.com
Progressive Concepts
Radial Engineering Ltd.
SCMS Inc.
Sonifex Ltd.
Studio Equipment
The Telos Alliance
Tieline USA
Titus Technological Laboratories
TransMedia Radio Networks
Transmitters 'R' Us
Wheatstone Corp.
WideOrbit
WorldCast Systems

Audio Loggers

305 Broadcast
Belar Electronics
Broadcast Warehouse Ltd.
BSW
Burli Software Inc.
Clyde Broadcast
DaySequerra
Jutel Oy

Orban Labs
Pristine Systems Inc.
Progressive Concepts
SCMS Inc.
Sonifex Ltd.
Transmitters 'R' Us
WinMedia America

Audio Processing, On-Air

25-Seven Systems
305 Broadcast
AEQ Broadcast International
Arrakis Systems
Bay Country Broadcast
Equipment Inc.
Broadcast Bionics
Broadcast Warehouse Ltd.
BSW
BW Broadcast
Clyde Broadcast
DHD Audio GmbH
Digigram
High Sound
Inovonics
Jutel Oy
Kline Consulting Group LLC
Logitek Electronic Systems
O.C. White Co.
Omnia Audio
Orban Labs
ProAudio.com
Progressive Concepts
SCMS Inc.
Sonifex Ltd.
Studio Equipment
Telos Systems
Transmitters 'R' Us
Wheatstone Corp.
WorldCast Systems

Audio Processing, Production

305 Broadcast
Arrakis Systems

AudioScience Inc.
Bay Country Broadcast
Equipment Inc.
Broadcast Warehouse Ltd.
BSW
BW Broadcast
DEVA Broadcast LLC
Digigram
ESE
Jutel Oy
Logitek Electronic Systems
Orban Labs
ProAudio.com
Progressive Concepts
SCMS Inc.
Sonifex Ltd.
Studio Equipment
Transmitters 'R' Us
Wheatstone Corp.

Audio Routing and Distribution Within a Facility

305 Broadcast
AEQ Broadcast International
Audinate
AudioScience Inc.
Axia Audio
Broadcast Devices Inc.
Broadcast Tools Inc.
BSW
DHD Audio GmbH
Digigram
DM Engineering
ESE
Glensound
Harman
Henry Engineering
Jutel Oy
Lawo Group USA
Logitek Electronic Systems
Paravel Systems
ProAudio.com
Progressive Concepts
Radial Engineering Ltd.
SCMS Inc.
Sonifex Ltd.
The Telos Alliance
Tieline USA
Titus Technological Laboratories
Transmitters 'R' Us
Wheatstone Corp.
Whirlwind USA

Automation, Storage and Logging

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Arrakis Systems

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Line Matchers
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FLEXtest METER TO IDENTIFY SATELLITES & PEAK DISHES

Customers report that they can boost EbNo performance by several dB, when using the FLEXtest meter to perfectly peak their satellite dishes. Base unit with SAT module will display satellite names, and show precise signal quality feedback for every adjustment to antennas. Portable unit with neck strap to allow hands-free adjustment of the dish. Much more precise than a spectrum analyzer, plus it powers the LNB during work. USA tech support. Ask about option to add measurement of Cable TV & Off Air.



FLEXtest-XR3 meter + VSAT module CALL
Option: Add cable TV/OffAir module & case

TI FILTER TO PREVENT TERRESTRIAL INTERFERENCE

Block local radar before it enters your dish-mounted LNB. Rhythmic drop-outs and degraded satellite reception often occurs near airports, harbors, or military bases. The filter also blocks interference from the newly FCC authorized 3.65 Ghz Wimax transmitters. Pass the desired 3.7 to 4.2 Ghz satellite channels with super-low .4 dB insertion loss. Block out-of-band interference by up to 70 dB.

TI Filter, best grade CALL for special price



DAWNflex LOW-LOSS CABLE, BOOST SIGNAL LEVEL FROM DISH Improve signal quality on satellite downlink, by increasing signal level without using noisy amps. Reduce loss on signal cable run from dish to building. Flexible coax passes satellite L band signals from LNB. Flooded for direct burial, quad shielded for best protection from signal ingress. Connectors with lightning protection on both ends.

DAWNflex cable \$1.29 per foot



FIBER OPTIC LINK FOR LONG DISTANCES PASS SATELLITE OR CABLE TV SIGNALS

500 feet to fifty miles is no problem using fiber. Place a transmitter (TX) on one end, and receiver (RX) unit on the other end. The TX and RX units will convert your signals to light, which will pass your important information over a long distance of SingleMode fiber optic cable. Choose the SATELLITE fiber link to pass the L band 700-2800 Mhz output from one LNB. Choose the CABLE TV fiber link to pass Cable TV channels in the 45 to 860 Mhz band. Call for help choosing the best system for your needs.

SATELLITE fiber TX/RX link
#FSS-95F13T&R \$1599

CABLE TV fiber TX/RX link
#FBS-870F6T&R CALL for Price



STATIONARY 3.7M DISH PACKAGE FOR RADIO-SAT-MOVE

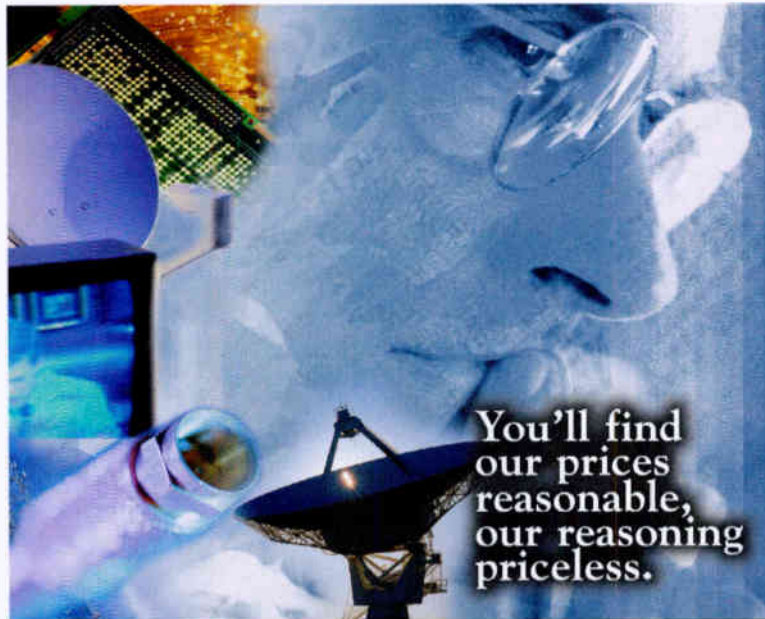
Best stationary 3.7 meter satellite antenna package, to ensure great reception of programming for the RADIO-SAT-MOVE. The 3.7 meter antenna package includes: One 4-petal aluminum satellite "dish" antenna, one 2-port C band fixed feedhorn, one cover plate to fit over one of the unused ports, and one top grade C band LNB with best-in-industry specs for maximum reception quality. New dish and parts ship in crate directly to the site, and fit onto customer provided 5.5 inch OD pipe. Call DAWNco to discuss options for: ground mount, roof mount, long distance cable run, option for high wind protection for hurricane areas.



Stationary 3.7m sat dish package for Radio-Sat-Move \$2591

Stationary 3.7m satellite antenna-only, #D37F48-4PC-5.5 \$2099

Basestana to mount new dish onto existing cement pad. CALL for info.



You'll find our prices reasonable, our reasoning priceless.

We can help you choose the best SATELLITE and FIBER OPTIC products to suit your needs. Our advice can help you get what you need, without paying for features you won't need. DAWNco high-gain satellite antennas will give you great reception, and our top-grade LNBs will optimize the reception quality of your finicky digital channels. Check out our web site, or give us a call today.



DAWNco

www.DAWNco.com • PHONE 248-391-9200 • EMAIL sales@DAWNco.com

PREVENT SIGNAL OUTAGES IN WINTER

Winter can be bad for reception of satellite signals. Snow and ice can pile onto your dish, which can cause a shift in the focal point and extra signal attenuation. Block the winter snow pile-up with DAWNco covers and heaters, and keep your signals strong.



COVERsat for protection under most conditions. Heavy vinyl cover is wrapped over the front face of your dish, to create a steep slippery surface that will prevent accumulation of ice & snow.

COVERsat for 3.0m dish \$399 other sizes... CALL



HEATsat completely stops snow outages. Electric HEATING system arrives as a kit for customer installation on a new or existing satellite antenna. Kit includes custom sized sheets of heater matting, plus sensors for precipitation and temp.

HEATsat for 3.0m dish \$2400 other sizes... CALL

TOP-GRADE LNBs for C & Ku BAND

Try our new generation of LNBs, and watch for improved EbNo readings on your digital satellite receivers. Mandatory upgrade for HD and 8PSK satellite channels. Best-specs for "gain compression" and "phase noise." Stability rating of ±2 Khz will prevent video picture tiling and signal outages when outdoor temps fluctuate.



C band LNB, high grade \$219

C band LNB, best grade CALL

Ku band LNB, best grade CALL



SIGNAL SPLITTER & POWER FOR LNBs

All signal wires go into this amplified splitter. 1 LNB can feed signal to up to 9 receivers, or 2 LNBs can each feed 5 receivers. 18 vdc power to LNBs.

DIVINSUP-2-1X5A \$229

LNB POWER SUPPLY

Insert 18v dc power via coax cable for 1 or 2 LNBs

DCP7A \$77



SAT SIGNAL SPLITTER

high quality to pass L band

2x DED772A \$18

4x DED774A \$24



SURGE SUPPRESSOR for LIGHTNING

Stop lightning surge on signal cable from damaging equipment. Units can take multiple hits, with no need for resetting.

LNB-ZAP-Stop \$122



SUPPLIER CROSS INDEX

AudioScience Inc.
Broadcast Bionics
Broadcast Electronics /
Commotion
Broadcast Warehouse Ltd.
BSW
Burl Software Inc.
Clyde Broadcast
DaySequerra
Digigram
ENCO Systems Inc.
InSoft LLC
Jutel Oy
MacinMind Software Inc.
Paravel Systems
Pristine Systems Inc.
RCS
SCMS Inc.
Smarts Broadcast Systems
StreamS-Modulation Index

Transmitters 'R' Us
WideOrbit
WinMedia America

Cloud Services for Radio

305 Broadcast
ACE Medias Tools
Barix
Digigram
ENCO Systems Inc.
Jutel Oy
Orban Labs Inc.
StreamGuys

**Codecs, Hardware
and Software**

2wcom Systems GmbH
305 Broadcast
AEQ Broadcast International
Barix

Bay Country Broadcast
Equipment Inc.
Broadcast Bionics
Broadcast Tools Inc.
Broadcast Warehouse Ltd.
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BW Broadcast
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DaySequerra
Digigram
GatesAir
Glensound
Henry Engineering
Moseley Associates Inc.
Omnia Audio
Orban Labs
ProAudio.com
Progressive Concepts
SCMS Inc.
StreamS-Modulation Index

Telos Systems
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Titus Technological
Laboratories
Transmitters 'R' Us
WorldCast Systems

**Consoles, Mixers,
Control Surfaces**

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Axia Audio
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Broadcast Warehouse Ltd.
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DHD Audio GmbH
Glensound
Harman
Henry Engineering
JK Audio Inc.
Lawo Group USA
Logitek Electronic Systems
Mooretronix
O.C. White Co.
ProAudio.com
Progressive Concepts
Sandies
SCMS Inc.
Sonifex Ltd.
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The Telos Alliance
Wheatstone Corp.
Yellowtec USA LLC

**Consultants and
Contract Engineers**

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Arctic Palm Technology Inc.
Beacon Mountain Engineering
Consultants
Boyd Broadcast Technical
Services
Brown Broadcast Services
Clyde Broadcast
Communications Technologies
Inc.
Hatfield & Dawson Consulting
Engineers
Hodge Structural Engineers
JavaJava Radio
Jutel Oy
Kintronic Labs
Kline Consulting Group LLC
Kozacko Media Services
LBA Technology Inc.
Northwest Monitoring Service
Progressive Concepts
Safe2Climb
Skywaves Consulting LLC
Studio Equipment

Transmitters 'R' Us
V-Soft Communications

**Content Syndication
and Formats**

305 Broadcast
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BSW
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DAWNco
LineQ
O.C. White Co.
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SCMS Inc.
Studio Equipment
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Studio Equipment
Titus Technological
Laboratories
Transmitters 'R' Us
Wheatstone Corp.

**Documentation Tools/
Software**

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Collins Computer Technology
WideOrbit

**Electronic and
Electric Components**

305 Broadcast
BSW
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GSSNet/Alert FM
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Harman
Henry Engineering
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Progressive Concepts
SCMS Inc.
Studio Equipment
Transmitters 'R' Us
Whirlwind USA

Microwave, STL and RPU Equipment

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Broadcast Electronics / Commotion

Broadcast Warehouse Ltd.
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Comrex Corp.
Davicom, a division of Comlab
DAWNco
Digigram
GatesAir
Kintronic Labs
Moseley Associates Inc.
OMB America
Pro-Comm Inc.
ProAudio.com
Progressive Concepts
SCMS Inc.
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Transmitters 'R' Us
WorldCast Systems

Music/Production Libraries

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Grace Broadcast Sales
UncompressedMusic.com

Power Products, Generators, UPS

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Sine Control Technology Inc.
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Promotional Equipment and Services

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Inovonics
Kathrein-Werke KG

meduci
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Progressive Concepts
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DaySequerra
Kathrein-Werke KG
Paravel Systems
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Progressive Concepts
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Sine Systems
Telos Systems
Transmitters 'R' Us
WorldCast Systems

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Broadcast Warehouse Ltd.
BSW
CPI / Eimac Operations
DAWNco
Dielectric LLC
Kathrein-Werke KG
Kintronic Labs
meduci
Myat Inc.
ProAudio.com
Progressive Concepts
SCMS Inc.
Shively Labs
Transmitters 'R' Us

RF Filters, Combiners, Custom Components

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AM Broadcast GmbH
Ampegon AG
Broadcast Warehouse Ltd.
BSW
DAWNco
Dielectric LLC
Electronics Research Inc. (ERI)
High Sound
Jampro Antennas Inc.
Kathrein-Werke KG

Kintronic Labs
LBA Technology Inc.
Myat Inc.
P-Cube Inc.
ProAudio.com
Progressive Concepts
Propagation Systems Inc. - PSI
SCMS Inc.
Shively Labs
Surcom Associates Inc.
Transmitters 'R' Us

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Bay Country Broadcast Equipment Inc.
Belar Electronics
Broadcast Devices Inc.
Broadcast Warehouse Ltd.
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DaySequerra
DEVA Broadcast LLC
GatesAir
Hatfield & Dawson Consulting Engineers
Inovonics
Kathrein-Werke KG
meduci
Northwest Monitoring Service
P-Cube Inc.
ProAudio.com
Progressive Concepts
SCMS Inc.
Transmitters 'R' Us
WorldCast Systems

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BSW
Futuri Media
Grace Broadcast Sales
Traffic Director's Guild of America
WideOrbit
WinMedia America

Satellite/Internet Distribution

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Arrakis Systems
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Broadcast Tools Inc.
BSW
Burli Software Inc.
DAWNco
Digigram
Jutel Oy
Kathrein-Werke KG
NPR Satellite Services

Scheduling, Traffic and Billing

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Media Masters
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RCS
Smarts Broadcast Systems
Summit Software Systems, Inc.
Transmitters 'R' Us
WideOrbit
WinMedia America

Social Media Tools

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Broadcast Electronics / Commotion
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Futuri Media
Grace Broadcast Sales
InSoft LLC
multiCAM Systems Inc.
NeoGroupe
Sprite Media Inc.
WinMedia America

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Au Contraire Software, Ltd.
BSW
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Kintronic Labs
NeoGroupe
V-Soft Communications
WideOrbit
WorldCast Systems

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ATI
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Broadcast Tools Inc.
Broadcast Warehouse Ltd.
BSW
Harman
ProAudio.com
Progressive Concepts
SCMS Inc.
Transmitters 'R' Us

Streaming, Mobile Apps, Podcasts

2wcom Systems GmbH
305 Broadcast

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BSW
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Comrex Corp.
Digigram
ENCO Systems Inc.
Futuri Media
Inovonics
NextRadio
O.C. White Co.
Omnia Audio
Orban Labs
Paravel Systems
Progressive Concepts
Securenet Systems
Shoutcast
StreamGuys
StreamS-Modulation Index
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Vidhi Techninnovation
WideOrbit
WinMedia America

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DM Engineering
Henry Engineering
O.C. White Co.
Paravel Systems
Sandies
Sprite Media Inc.
Titus Technological
Laboratories
Yellowtec USA LLC

Subcarrier and Datacasting

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Commotion
BSW
GSSNet/AlertFM
Transmitters 'R' Us

System Integrators

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AM Broadcast GmbH
Ampegon AG
AudioScience Inc.
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Clyde Broadcast
Collins Computer Technology
Comrex Corp.
Kathrein-Werke KG
Kline Consulting Group LLC
O.C. White Co.
Transmitters 'R' Us
WideOrbit

Telco Interfaces

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DM Engineering
Glensound
JK Audio Inc.
ProAudio.com
Progressive Concepts
SCMS Inc.
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Telos Systems
Transmitters 'R' Us

Test and Measurement Equipment

Bay Country Broadcast
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Broadcast Devices Inc.
Broadcast Warehouse Ltd.
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DEVA Broadcast LLC
ESE
Hodge Structural Engineers
Kathrein-Werke KG
Kintronic Labs
Pro-Comm Inc.
Progressive Concepts
SCMS Inc.
Titus Technological
Laboratories
Transmitters 'R' Us
WorldCast Systems

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AM Ground Systems
Austin Insulators Inc.
BSW
Electronics Research Inc. (ERI)
Ice Crackers Inc.
Jampro Antennas Inc.
Kathrein-Werke KG
LBA Technology Inc.
Progressive Concepts
SCMS Inc.
Sine Control Technology Inc.
Transmitters 'R' Us

Transmitters, Translators and Exciters

305 Broadcast
AM Broadcast GmbH
AM Ground Systems
Ampegon AG

Armstrong Transmitter Corp.
Bay Country Broadcast
Equipment Inc.
Broadcast Electronics /
Commotion
Broadcast Warehouse Ltd.
BSW
Burk Technology
BW Broadcast
Clyde Broadcast
Davicom, a division of Comlab
DaySequerra
GatesAir
Kathrein-Werke KG
Nautel
OMB America
Pro-Comm Inc.
ProAudio.com
Progressive Concepts

SCMS Inc.
Transmitters 'R' Us
WorldCast Systems

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BSW
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VENDOR & PRODUCT DIRECTORY

This section is an alphabetical listing of industry suppliers for the U.S. radio broadcasting community. To find suppliers by product category, see the Supplier Cross Index section. Suppliers, did we miss you? Email radioworld@nbmedia.com so we can send you the data form next year.

25-SEVEN SYSTEMS, A TELOS ALLIANCE CO.

1241 Superior Ave.
Cleveland, Ohio 44114
Krissy Rushing, Marketing Manager
216-241-7225

Email: inquiry@telosalliance.com
Website: <http://www.telosalliance.com>

Products/Services: 25-Seven — part of the Telos Alliance — was founded on ultra-complex time compression algorithms that give radio stations more effective/efficient broadcast time. 25-Seven reinvented the profanity delay with Program Delay Manager and has since produced Voltair, one of the most disruptive technologies in broadcast history.

2WCOM SYSTEMS GMBH

Am Sophienhof 8
Flensburg, Schleswig-Holstein 24941 Germany
Werner Drews, CEO
+49-461-66-28-30-0

Email: sales@2wcom.com
Website: <http://www.2wcom.com>

Products/Services: 2wcom is a manufacturer, supplier and system integrator providing versatile and reliable products as well as customer support. All solutions for AoIP, MPXoIP, SAT, FM/RDS and DAB+ can be integrated into existing systems. The portfolio includes high-quality encoders, decoders, codecs, modulators, demodulators and remote control server.

305 BROADCAST

2561 NW 74th Ave. #16
Miami, Fla. 33122
Anthony Gervasi, Sales Manager
855-305-3058

Email: info@305Broadcast.com
Website: <http://www.305Broadcast.com>

Products/Services: 305 Broadcast is an international distributor of broadcasting equipment. Its location facilitates the delivery of products and services to any customer across the globe. The company is an authorized dealer for the most respected and recognized brands in the broadcast industry.

A.T.S. SWITZERLAND — NAGRA

Chemin de l'Orio 30A
Romanel sur Lausanne, Vaud 1032
Switzerland
John Owens, Sales Director
+41-21-643-72-40

Email: audio_pro@nagraaudio.com
Website: <http://www.nagraaudio.com>

Products/Services: A.T.S. Switzerland designs, manufactures and commercializes the entire range of Nagra professional digital audio recorders. Handheld and shoulder-hung solid-state recorders for radio journalism.

AC VIDEO SOLUTIONS

50 S. Center St., Unit 19
Orange, N.J. 07050
Andrea Cummis, Managing Partner
844-422-8433

Email: sales@acvideosolutions.com
Website: <http://acvideosolutions.com>

Products/Services: Specializing in complete audio and video system design and integration, digital signage, live event streaming, A/V system design and installation, operations and technology consulting, studio design and construction, service contracts, as well as audio and video production services.

ACE MEDIAS TOOLS

9 rue de l'échelle
Paris 75001 France
Arnaud Vallin, President
+33-1-44-82-00-57

Email: contcat@acemediastools.fr
Website: <http://acemediastools.fr>

Products/Services: We develop software to manage phone hybrids and audio codecs.

ACOUSTICS FIRST

2247 Tomlyn St.
Richmond, Va. 23230
888-765-2900

Email: info@acousticsfirst.com
Website: <http://www.acousticsfirst.com>

Products/Services: Acoustic treatment products and services.

AEQ BROADCAST INTERNATIONAL INC.

6355 NW 99th Ave.
Doral, Fla. 33178-2719

Peter Howarth, Management,
Business Coordination
800-728-0536

Email: sales@aeqbroadcast.com
Website: <http://www.aeqbroadcast.com>

Products/Services: For more than 37 years, AEQ has developed solutions for the broadcasting industry; audio mixers, routing matrices, broadcast video monitors, intercom systems, etc. AEQ is a regular equipment and service provider at international sport events. AEQ has a distributor network with offices in USA, Portugal and Spain.

AETA AUDIO SYSTEMS

Immeuble Kepler 4
18-22 Ave. Edouard Herriot
Le Plessis Robinson 92350 France
+33-1-41-36-12-00

Email: info@aeta-audio.com
Website: <http://www.aeta-audio.com>

Products/Services: AETA Audio Systems is a leading international developer of portable sound recorders, mixers and advanced audio codecs for any kind of media and transmission infrastructure. Since 1978 the company has focused on developing innovative products, making them as compact as possible for optimal mobile use and easy handling.

ALAN DICK BROADCAST LTD.

Unit 1, Bay 2 Andoversford Industrial Estate
Cheltenham, Glos GL54 4LB United Kingdom
Sonia Del Castillo, Sales/Marketing Administrator
+44-1242-820976

Email: sonia.delcastillo@alandickbroadcast.com
Website: <http://www.alandickbroadcast.com>

Products/Services: UK-based Alan Dick Broadcast manufactures antennas, combiners/filters, towers and broadcast infrastructure services for digital and analog video and audio systems.

ALDENA TELECOMUNICAZIONI SRL

Via per Vighignolo, 6/8
Settimo Milanese MI 20019 Italy
Carlo Perotta, Sales

+39-02-9039-0461

Email: aldena@aldena.it
Website: <http://www.aldena.it>

Products/Services: Aldena has more than 70 years of experience in broadcasting. Products include radio and TV antennas, tower spines and mechanical structures, patch panels, filters and combiners, RF accessories and EMLab antenna design software. Services include in-factory antenna pattern certification/tests, antenna design, network planning, on-site support and commissioning.

ALERT FM

See *GSSNet/ALERT FM*

ALTRONIC RESEARCH INC.

PO Box 249, 621 Hwy. 202 W
Yellville, Ark. 72687
Doug Starkey, Sales

870-449-4093
Email: dstarkey@altronic.com
Website: <http://www.altronic.com>

Products/Services: RF coaxial dummy loads from 1 kW to 1500 kW available in air-cooled, oil-cooled, water-cooled, soda/water systems and self-contained heat exchangers operating from 60 Hz to 1 GHz. Water-cooled calorimetry systems and our Opti-Cal power meter are also available. High-power cermet resistors are available.

AM BROADCAST GMBH

Mertensstr. 65-115
Berlin 13587 Germany
Matthias Stoll, Sales & Marketing
+49-30-33978-0

Email: info@am-broadcast.com
Website: <http://www.am-broadcast.com>

Products/Services: The new AM-Broadcast GmbH, a restart of Transradio SenderSysteme Berlin, provides manufacturing, installation and complete scope of services and after sales support concerning all AM and scientific products introduced by Transradio Sender-Systeme Berlin AG.

AM GROUND SYSTEMS

51 Ridge Ln.
Lawrenceburg, Tenn. 38464
Kevin Kidd, Owner
866-227-2346

Email: agscrwbvgus2015@amgroundsystems.com
Website: <http://www.amgroundsystems.com>

Products/Services: Physical AM site services featuring AM ground system construction, inspection and repair. Specialties include MoM preparation, due diligence and theft remediation.

AMPEGON ANTENNA SYSTEMS GMBH

Rheinallee 1a
Ludwigshafen am Rhein, 67061 Germany
Detlev Koch, Chief Marketing Officer
+49-621-63595-0

Email: antennas@ampegon.com
Website: <http://ampegon.com>

Products/Services: Ampegon specializes in the field of high-performance AM antennas, components and mast systems.

VENDOR & PRODUCT DIRECTORY

ANTENNA ID PRODUCTS-TOWER SIGNS

22 Bryan Wynd, Ste. 2
Glenmoore, Pa. 19343
Tom Moyer, Sales/Owner
610-458-8418

Email: antennaid@msn.com

Website: www.antennaid.com

Products/Services: Custom and standard special tower signs for broadcasters and wireless service providers. Free additional sign wording for ASR and FCC contact numbers. Antenna tags, guy wire markers available.

ARCTIC PALM TECHNOLOGY INC.

11 Camelot Cres
London, Ont. N5V 3L4 Canada
Stu Buck, President
519-452-0002

Email: sales@arcticpalm.com

Website: http://www.arcticpalm.com

Products/Services: Specializing in software for broadcasting, including Center Stage Live and its advanced Datacasting features, its paperless studio products for contest and prize scheduling, copy writing, call screening and automated file transfers. Since 1997, Arctic Palm has been committed to providing reliable, featured-filled products with great service.

ARMSTRONG TRANSMITTER CORP.

4835 North St.
Marcellus, N.Y. 13108
Kevin Smith, Sales / Technician
315-673-1269

Email: kevin@armstrongtx.com

Website: http://armstrongtx.com

Products/Services: Armstrong Transmitter manufactures AM and FM broadcast exciters and transmitters, STL transmitters and receivers. The company also manufactures transmitters for the National Weather Service.

ARRAKIS SYSTEMS

6604 Powell St.
Loveland, Colo. 80538
Ben Palmer, Sales Manager
970-461-0730

Email: sales@arrakis-systems.com

Website: http://www.arrakis-systems.com

Products/Services: Arrakis Systems has been engineering state-of-the-art radio station equipment for over 30 years. The company offers digital radio automation, broadcast consoles and studio furniture.

ATC LABS

105 Lock St., Ste. 411
Newark, N.J. 07103
973-624-1116

Email: info@atc-labs.com

Website: http://www.atc-labs.com

Products/Services: Developer of software audio codecs and processors.

ATI

7209 Browning Rd.
Pennsauken, N.J. 08109
Mike Pappas, VP Business Development
856-719-9900

Email: sales@daysequerra.com

Website: http://www.atiaudio.com

Products/Services: ATI Audio has long been recognized as a manufacturer of high-quality broadcast audio/studio equipment and has more than 100,000 pieces of equipment in use worldwide.

AU CONTRAIRE SOFTWARE LTD.

18121-C E. Hampden Ave. #216
Aurora, Colo. 80013
Cris Alexander, Managing Partner
303-489-3454

Email: info@aucont.com

Website: http://www.aucont.com

Products/Services: Au Contraire Software strives to provide engineers and others in the broadcast, wireless and land mobile industry with the information and tools they need for accurate allocation, design and construction.

AUDINATE

1732 NW Quimby St. Ste. 215
Portland, Ore. 97209
Ervin Grinberg, Director of Marketing
503-224-2998

Email: ervin.grinberg@audinate.com

Website: http://www.audinate.com

Products/Services: Audinate's Dante media networking technology has been adopted by OEM manufacturers and is a dominant networking technology in the professional audio/visual industry. Dante is used for live events, commercial installation, broadcast and communications systems.

AUDIOARTS ENGINEERING

See *Wheatstone*

Emergency Alert System



Need CAP/EAS? *
Call Sage Alerting Systems
914-872-4069

* Our Sage Digital ENDEC is easy to use, so we've made our ad easy to read.

SAGE

Sage Alerting Systems, Inc
800 Westchester Avenue, Suite 641N, Rye Brook, NY 10573
info@sagealertingsystems.com
www.sagealertingsystems.com

VENDOR & PRODUCT DIRECTORY

AUDIOPOLE

22 rue Edouard Buffard
Montevrain 77144 France
Jean-Philippe Blanchard, COO
+33-1-60-54-31-86

Email: broadcast@audiopole.fr
Website: http://www.audiopole.fr

Products/Services: Audiopole is a leading broadcast audio distributor in France. Audiopole represents major brands including Studer, beyerdynamic Genelec, Yellowtec, TC Electronic, Orban, Clear-Com, Digigram, Ghielmetti, CTP Systems, RTW, Wohler and Broaman.

AUDIOSCIENCE INC.

42 Reads Way
New Castle, Del. 19720
Richard Gross, President
302-324-5333

Email: rgross@audioscience.com
Website: http://www.audioscience.com

Products/Services: AudioScience designs and manufactures advanced DSP-based digital audio peripherals for the OEM, broadcast, installed sound and entertainment markets. We support industry standards such as PCI Express, MPEG audio compression, CobraNet, Livewire and AVnu AVB audio networking, and the Windows and Linux operating systems.



Austin Insulators designs and manufactures Base Insulators for Guyed/Self Supporting Towers, Safety Core/Failsafe Guy Insulators, Static Drain Devices, Bushing Insulators Tower Lighting Transformers and Red LED Lighting Systems for Medium Wave (MF), Long Wave (LF) and Very Low Frequency (VLF) Antennas. Users worldwide include Radio, Naval, Navigation and Timing Broadcasters.

Austin Insulators Inc.
7510 Airport Road
Mississauga, Ontario
L4T 2H5, Canada
Ph/Fax: Phone: 905 405 1144
Fax: 905 405 1150
Email: sales@austin-insulators.com
Web: www.austin-insulators.com



AUDIO-TECHNICA U.S. INC.

1221 Commerce Dr.
Stow, Ohio 44224
330-686-2600

Email: mediaproduction@atus.com
Website: http://www.audio-technica.com

Products/Services: Manufacturer of wired microphones and wireless microphone systems, headphones and turntables.

AUDIOTX

1098 Stratford Rd., Hall Green
Birmingham WM B28 8AD United Kingdom
Mo Dutta, Head of Sales
+44-121-256-0200

Email: sales@audiotx.com
Website: http://www.audiotx.com

Products/Services: AudioTX provides a range of software and hardware solutions for professional-grade live audio over IP and the internet. The company offers solutions ranging from STL to remote/outside broadcasts and syndication and distribution of audio both within and outside of a facility.

AURALEX ACOUSTICS INC.

9955 Westpoint Dr. Ste. 101
Indianapolis, Ind. 46256
Robb Wenner, Marketing Manager
800-959-3343

Email: marketing@auralex.com
Website: http://www.auralex.com

Products/Services: Auralex Acoustics was founded in 1977 with a mission to provide acoustical treatment products at the best value. Auralex customers have experienced improved acoustics, expert advice and customer service. Auralex products are in use among prominent artists, producers, engineers, broadcast facilities and corporations worldwide.



AUSTIN INSULATORS INC.

7510 Airport Rd.
Mississauga, Ont. L4T 2H5 Canada
Patrick Warr, President
905-405-1144

Email: sales@austin-insulators.com
Website: http://www.austin-insulators.com

Products/Services: Austin Insulators designs and manufactures base insulators for guyed/self-supporting towers, safety core/failsafe guy insulators, static drain devices, bushing insulators tower lighting transformers and red LED lighting systems for medium-wave, longwave (LF) and very low-frequency (VLF) antennas. Users worldwide include radio, naval, navigation and timing broadcasters.

AVT AUDIO VIDEO TECHNOLOGIES GMBH

Nordostpark 12
Nuernberg 90411 Germany
Ulrike Lauterbach, Sales Manager
+49-911-5271-0

Email: info@avt-nbg.de
Website: http://www.avt-nbg.de
Products/Services: AVT provides IP, ISDN and E1 audio codecs as well as VoIP, POTS and ISDN talk show systems/telephone hybrids and DAB/DAB+ equipment. The telephone hybrids are available for one to 16 caller lines with screening function, HD Voice, pretalk streaming and recording possibilities. New features include Dante/AES67 and Ember+.

AXEL TECHNOLOGY

Via Caduti di Sabbiano 6/F
Anzola Emilia, BO 40011 Italy
+39-051-736-555

Email: sales@axeltechnology.com
Website: http://www.axeltechnology.com

Products/Services: Since 1996 Axel Technology has been a leading Italian radio and television broadcast equipment manufacturer. Innovation, research and development are the main sources of our competitive presence in the worldwide market. With an interna-

tional sales force, Axel Technology's equipment and solutions are in over 120 nations.

AXIA AUDIO, A TELOS ALLIANCE CO.

1241 Superior Ave. E.
Cleveland, Ohio 44114
Krissy Rushing, Marketing Manager
216-241-7225

Email: inquiry@telosalliance.com
Website: http://www.telosalliance.com

Products/Services: Founded in 2003, Axia — part of the Telos Alliance — is creator of IP-audio networking technology Livewire+ AES67, along with audio mixing consoles. Axia equipment can be found in more than 7,000 studios, with more than 70,000 Livewire-connected devices and 100+ Livewire partners.

BARIX

Ringstrasse 15A
Dubendorf, 8600 Switzerland
Reto Brader, VP Sales and Marketing
+41-43-43322-11

Email: reto@barix.com
Website: http://www.barix.com

Products/Services: Barix specializes in research and development of IP-based communication and control technology. Barix products are standalone and able to remotely connect worldwide over standard networks/Internet, offering solutions for commercial audio distribution, communication and automation applications.

See story, page 43

BAY COUNTRY BROADCAST EQUIPMENT INC.

7117 Olivia Rd.
Baltimore, Md. 21220
Steve Scarborough, Owner
877-722-1031

Email: sales@baycountry.com
Website: http://www.baycountry.com

Products/Services: Sales of quality used radio broadcast equipment.

BEACONMOUNTAIN ENGINEERING CONSULTANTS

11 Pheasant Hill Rd.
Canton, Conn. 06019
Steven Bartholomew, President
860-693-3336

Email: beaconmountain@yahoo.com
Products/Services: Broadcast engineering consultants specializing in FM full-power, translator and LPFM facilities. FCC application preparation, directional antennas, site selection and coverage optimization. Signal level predictions using F(50,50) and Longley-Rice methodologies. Conducting signal strength measurements to verify actual coverage. Resolving disputes between translators and full-power stations using engineering solutions.

BELAR ELECTRONICS

1140 McDermott Dr. Ste. 105
West Chester, Pa. 19380
Mark Grant, CEO
610-687-5550

Email: sales@belar.com
Website: http://www.belar.com

Products/Services: Founded in 1964, Belar Electronics Laboratory manufactures modulation monitors. Used by radio and TV stations globally to monitor broadcast signals, Belar products are known for accuracy and reliability.

VENDOR & PRODUCT DIRECTORY

BEXT INC.

1045 10th Ave.
San Diego, Calif. 92101
619-239-8462
Email: bext@bext.com
Website: <http://www.bext.com>

Products/Services: Manufacturer of radio and TV transmitters, STLs, RF filters, combiners and antenna systems.

BOYD BROADCAST TECHNICAL SERVICES

21818 SW Columbia Cir.
Tualatin, Ore. 97062
James Boyd, President
503-703-8360

Email: boyd.broadcast@comcast.net
Products/Services: AM and FM HD Radio install and troubleshooting, AM NRSC, FM73.317, AM duplex, FM combining, heavy troubleshooting, RFR measurements, due diligence.

BROADCAST BIONICS

The Barn, Hurstwood Grange Hurstwood Ln.
Haywards Heath, West Sussex RH17 7QX
United Kingdom
Kirsten Smith
+44-1444-473999

Email: sales@phonebox.com
Website: <http://www.phonebox.com>

Products/Services: Broadcast Bionics are authors of talkshow/communications software PhoneBOX, Oasis, Virtual Director, PhoneBOXVX and PhoneBOX Solo. As specialist broadcast software developers, bespoke projects are also undertaken. Distributors of Telos, Axia, Omnia, Lawo, WideOrbit Automation for Radio, Music Master, Sterlitz, for the UK providing quality solutions and customer service.

BROADCAST DEVICES INC.

3199 Albany Post Rd. Ste. 122
Buchanan, N.Y. 10511
Bob Tarsio, President
914-737-5032

Email: bob@broadcast-devices.com
Website: <http://www.broadcast-devices.com>

Products/Services: BDI offers RF power measurement, RF switch controllers, antenna protection systems, remote control systems in addition to a variety of digital and analog audio switching and distribution equipment. AES3 and analog audio solutions available for broadcasters and sound contractors.

BROADCAST ELECTRONICS / COMMOTION

4100 North 24th St.
Quincy, Ill. 62305
Tom Beck, President/CEO
217-224-9600

Email: bdcast@bdcast.com
Website: <http://www.bdcast.com>

Products/Services: Broadcast Electronics offers studio automation and complete RF systems for radio. BE manufactures AM, FM and HD Radio transmitters and studio systems for managing audio programming and automating radio text as well as web interactive tools for social networks and mobile devices. BE has been a global company since 1959.

BROADCAST PARTNERS

Axelsestraat 58
Terneuzen 4537 AL Netherlands

Chris Pladdet
+31-115-683555

Email: christiaan@broadcastpartners.com
Website: <http://broadcastpartners.com/website/>
Products/Services: For more than 25 years Broadcast Partners has provided state-of-the-art broadcast technology and solutions to broadcasters. The chief activity is construction and maintenance of transmission networks for public and commercial radio stations. Broadcast Partners also supplies transmitters, studio design, in-house developed Aer-on-Studio radio automation and turnkey broadcast projects worldwide.

BROADCAST SOFTWARE INTERNATIONAL

909 International Way
Springfield, Ore. 97477
Marie Summers, Sales Manager
888-274-8721

Email: sales@bsiusa.com
Website: <http://www.bsiusa.com>

Products/Services: Radio automation software, playout and multichannel logging/skimming solutions. Developed and supported in the United States by a dedicated team of broadcast professionals, our software has helped BSI become one of the leading suppliers of radio automation with distributors on every continent.

BROADCAST SOLUTIONS ELECTRONICS LTD.

7d Bell Crescent, Westlake Business Park
PO Box 31186
Cape Town, Western Cape 7945 South Africa
Peter Bacon, Director
+27-217012491

Email: pbacon@bselec.com
Website: <http://www.bselec.com>

Products/Services: Broadcast Solutions Electronics manufactures and supplies a range of FM transmitters and translators from 10 W to 5 kW, UHF STLs in the frequency range of 200 to 970 MHz, FM antenna systems and HD Radio translators 25 W to 250 W, LPFM transmitters to 250 W and FM radio rebroadcast into road tunnels.

BROADCAST TOOLS INC.

131 State St.
Sedro Woolley, Wash. 98284
Donald Winget
360-854-9559

Email: support@broadcasttools.com
Website: <http://www.broadcasttools.com>

Products/Services: Broadcast Tools specializes in the design and manufacture of affordable and innovative problem-solving tools for the radio and television broadcast industries. Our products include analog and AES audio switchers/routers, web-based and telephone coupled remote control systems, studio audio accessories, satellite receiver interface adapters, DTMF encoder/decoders and logic interfaces. Broadcast Tools is a veteran-owned small business.

BROADVIEW SOFTWARE

110 Adelaide St. East, 3rd Floor
Toronto, Ont. M5C 1K9 Canada
647-255-3500

Email: sales@broadviewsoftware.com
Website: <http://www.broadviewsoftware.com>

Products/Services: Developer of broadcast business software.

BROWN BROADCAST SERVICES INC.

3740 SW Comus St.
Portland, Ore. 97219
Michael Brown, Owner/Principal Engineer
503-245-6065

Email: mike@brownbroadcast.com
Website: <http://www.brownbroadcast.com>

Products/Services: FCC radio applications, studies, coverage analysis, transmitter site construction, special projects.

BSW

2237 South 19th St.
Tacoma, Wash. 98405
Shannon Nichols, Sales Manager
800-426-8434

Email: sales@bswusa.com
Website: <http://www.bswusa.com>

Products/Services: As a broadcast equipment supplier, Broadcast Supply Worldwide offers thousands of products. For over 42 years, broadcast and audio professionals trust BSW for all their equipment needs — radio, podcast, video, lighting and more.

BURK TECHNOLOGY

7 Beaver Brook Rd.
Littleton, Mass. 01460
Matt Leland
978-486-0086

Email: sales@burk.com
Website: <http://www.burk.com>

Products/Services: Burk Technology designs and manufactures high-quality transmitter facility control systems for the broadcast industry, with thousands of radio and TV installations across the U.S. and around the world. Burk brings over 30 years of innovation to transmitter remote control, setting the standards for reliability, flexibility and ease of operation.

BURLI SOFTWARE INC.

4664 Loughheed Hwy. Ste. 264
Burnaby, BC V5C 5T5 Canada
604-684-3140

Email: info@burli.com
Website: <http://www.burli.com>

Products/Services: Burli produces newsroom software. It automatically ingests traditional newswires, audio, social media, podcasts, RSS feeds, email and more; includes text and multi-track audio editors; and publishes newscasts and stories to broadcast prompters, automation systems, social media and websites. Suits newsrooms of all sizes.

BW BROADCAST

Unit 27, IO Centre 57 Croydon Rd.
Croydon, Surrey CR0 4WQ United Kingdom
Brendan Lofty, Sales
866-376-1021

Email: info@bwbroadcast.com
Website: <http://www.bwbroadcast.com>

Products/Services: Innovative, award-winning and industry-leading FM transmitters, and audio processors, FM receivers, FM amplifiers and RDS encoders from BW Broadcast can be found in all corners of the globe. With emphasis on efficiency and reliability, you can trust BW Broadcast to make your station #1 in the market.

CAVELL, MERTZ & ASSOCIATES

7724 Donegan Dr.
Manassas, Va. 20109-2868
703-392-9090

VENDOR & PRODUCT DIRECTORY

Email: gcavell@CavellMertz.com
Website: http://cavellmertz.com

Products/Services: Experienced, licensed broadcast engineers performing a variety of services including FCC licensing, microwave and backhaul system planning and licensing, station prepurchasing due diligence, technical facility build and upgrade support, technical project management, frequency and channel searches.

CENTRAL COAST ELECTRONICS

3635 NW Port Ave.
Lincoln City, Ore. 97367
James Thorusen, Chief Engineer
541-992-3416

Email: jthorusen@centcoast.com
Website: http://www.centcoast.com

Products/Services: Broadcast engineering support — specializing in RF and transmitters, remote control systems, studio and transmitter construction.



CHYRONHEGO

5 Hub Dr.
Melville, N.Y. 11747
Mark Gederman, Director of Marketing
401-787-0120

Email: mark.gederman@chyronhego.com
Website: http://www.chyronhego.com

Products/Services: ChyronHego specializes in solutions for broadcast graphics creation, playout and real-time data visualization for live television, news and sports production. ChyronHego solutions also include CG's, channel branding, Visual radio, weather graphics, graphics asset management, clip servers, social media and second screen applications, touch graphics, telestration, virtual placement and player tracking.

CLYDE BROADCAST

3 South Ave. Clydebank Business Park
Glasgow, West Dunbartonshire G812RX
United Kingdom
+44-141-270-5050

Email: sales@clydebroadcast.com
Website: http://www.clydebroadcast.com

Products/Services: Clyde Broadcast designs, installs and manufactures radio studio equipment. Its "Synergy" range of equipment is used by broadcasters worldwide. The company teams up with local partners to guarantee the best and most affordable solutions for your radio project.

COAXIAL DYNAMICS

6800 Lake Abram Dr.
Middleburg Hts., Ohio 44130
440-243-1100

Email: sales@coaxial.com
Website: http://www.coaxial.com

Products/Services: Coaxial Dynamics has been a leading manufacturer of precision equipment for the measurement and termination of RF power since 1969. Products include RF loads, filters, wattmeters, line sections and plug-in elements for analog and digital applications.

COLLINS COMPUTER TECHNOLOGY

4516 Lovers Ln.
Dallas, Texas 75225

Tex Collins, Owner/President
972-262-0423

Email: tex@meaux.net
Website: http://tex.meaux.net

Products/Services: Computer hardware, software, systems and maintenance. The company also offers technical writing and documentation, Windows recovery and repair and custom software for database and engineering use.

COMMUNICATIONS TECHNOLOGIES INC.

PO Box 1130
Marlton, N.J. 08053
Laura Mizrahi
609-451-5296

Email: lmizrahi@commtechrf.com
Website: http://www.commtechrf.com

Products/Services: Broadcast engineering consultants specializes in AM, FM and TV RF system design. The company also offers FCC application preparation, site selection expertise to optimize facility coverage and signal level predictions using contour and Longley-Rice methodologies.

COMREX CORP.

19 Pine Rd.
Devens, Mass. 01434
Chris Crump, Director of Sales
978-784-1776

Email: info@comrex.com
Website: http://www.comrex.com

Products/Services: Comrex designs and manufactures technology to provide simple solutions to universal broadcast needs. An industry leader in the development of IP audio codecs, Comrex is also a pioneer in state-of-the-art video over IP and IP-based call management solutions.

See Profile in Excellence, page 6

CPI/EIMAC OPERATIONS

811 Hansen Way
Palo Alto, Calif. 94304
Linda Di Lorenzo, Exhibits Manager
650-846-2900

Email: powergrid@cpil.com
Website: http://www.cpii.com

Products/Services: CPI/Eimac Operations is a leader in the design and manufacture of power grid tubes for broadcast, communications, radar, industrial heating, semiconductor processing, science and medical applications.

D&M BROADCAST SRL

Via Bologna 276/I
San Pietro in Casale BO 40018 Italy
+39-051-817657

Email: info@dmbroadcast.it
Website: http://www.dmbroadcast.it

Products/Services: D&M Broadcast offers turnkey solutions for radio and TV stations, from design, production to installation and training. The firm also provides modular mixers, audio processors, telephone hybrids, RDS coders, IP links, A/V streaming, FM transmitters, HP links and antenna systems.

D&R ELECTRONICA B.V.

Rijnkade 15B
Weesp, NH 1382GS Netherlands
Duco de Rijk, CEO
+31-294-418-014

Email: mail@d-r.nl
Website: http://www.d-r.nl

Products/Services: D&R Electronica b.v. has been operating for 43 years. The last 15 years D&R has focused on broadcast-related products, such as the Airlite, Axum, Airmate-USB, Airence-USB, Airlab and Lyra mixers. Aircast is D&R's radio playout software. D&R also offers hybrids.

DAC SYSTEM SA

Via Cantonale 18
Manno 6928 Switzerland
Pietro Casati, CEO
+41-78-8821723

Email: pietro.casati@dacsystm.ch
Website: http://www.dacsystm.ch

Products/Services: DAC System is the supplier of IoT/monitoring systems. The systems permit RF monitoring of all critical spots in the broadcast chain through a combination of indoor systems on combiner-filters and patch panels and outdoor systems of sensors on the power splitters and/or direct to the antenna/panels, everything is online and in real time.

DAVICOM, A DIVISION OF COMLAB INC.

2300, Leon-Harmel, Ste. 220
Quebec City, Quebec G1N 4L2 Canada
John Ahern, CEO
418-682-3380

Email: dvsales@davicom.com
Website: http://www.davicom.com

Products/Services: Leading broadcasters around the world rely on Davicom products to remotely monitor and control their transmitter sites, thereby allowing them to reduce their operating costs and downtime. Davicom units provide intelligent automation that drastically reduces nuisance alarms while using open standards like SNMP and Modbus for communication with on-site devices.

DAWNCO

7111 Dixie Hwy., Ste. 118
Clarkston, Mich. 48346
John Joslin, Director Sales & Marketing
248-391-9200

Email: sales@DAWNco.com
Website: http://www.DAWNco.com

Products/Services: DAWNco provides satellite communication products, including satellite antennas, satellite receivers, LNBS, feedhorns, motors, controllers and component parts. DAWNco also provides fiber optic communication products, including fiber links to pass audio/video, fiber to pass satellite signals, data fiber links and fiber for cable TV broadband. Call to speak with knowledgeable technical sales.

DAYSEQUERRA

7209 Browning Rd.
Pennsauken, N.J. 08109
Mike Pappas, V.P., Business Development
856-719-9900

Email: sales@daysequerra.com
Website: http://www.daysequerra.com

Products/Services: DaySequerra provides high-performance audio solutions for live performances, radio, TV and internet broadcasters and content creators worldwide. Technology applications include audio processing, loudness measurement and control, multichannel surround audio, and digital radio processing and monitoring.

DB ELETTRONICA TELECOMUNICAZIONI

Riviera Maestri del Lavoro 20/1

VENDOR & PRODUCT DIRECTORY

Padova PD 35127 Italy
Margot Deliperi, Marketing Manager
+39-049-8700588

Email: marketing@dbbroadcast.com
Website: <http://www.dbbroadcast.com>

Products/Services: DB Elettronica Telecomunicazioni is the lead company of a corporate group specializing in broadcasting and scientific applications. Thanks to its 40 years of experience, DB Elettronica is today a world leader in the broadcast industry, providing FM and TV transmitters, broadcast gear, systems and services to customers worldwide.

DCSTOOLS.COM

8494 Saratoga Ln.
Eden Prairie, Minn. 55347
Rich Habedank, Owner
952-949-9450

Email: rich@c-rmedia.com
Website: <http://www.dcsTools.com>

Products/Services: XStudio radio automation system supports live, local automation, satellite and a unique emergency mode of operation. Software tools for legacy DCS and Maestro automation systems, including voice-tracking, log editing, web billboard, RDS and merging of music and traffic logs.

DELTA MECCANICA SRL

Via Fontanelle di Bardano 20
Orvieto, TR 05018 Italy
Marco Longo, Co-Owner
+39-076-3316222

Email: info@deltameccanica.com
Website: <http://www.deltameccanica.com>

Products/Services: Delta Meccanica designs and man-

ufactures RF components: filters, combiners, switching systems both motorized and manual, dummy loads, analog or digital. We deliver and perform installations for turnkey projects worldwide.

DEVA BROADCAST LLC

7782 NW 46th St.
Miami, Fla. 33166
Todor Ivanov, President
305-767-1207

Email: sales@devabroadcast.com
Website: <http://www.devabroadcast.com>

Products/Services: DEVA Broadcast is an international communications and high-technology company that serves the broadcast and corporate markets worldwide. DEVA Broadcast has been developing and producing a range of modulation monitors, audio processors, off-air monitoring receivers, RDS/RBDS encoders and other systems for the broadcast industry.

DHD AUDIO GMBH

Haferkornstr. 5
Leipzig 04129 Germany
+49-341-589702-0

Email: info@dhd-audio.de
Website: <http://www.dhd-audio.com>

Products/Services: DHD audio GmbH was founded in 1996. It manufactures digital mixers, audio routers and other professional audio devices for radio and TV. DHD products ranging from four-channel touch mixers to 64-channel On-Air consoles and routing systems are used worldwide in thousands of installations at public and private radio stations.

DIELECTRIC LLC

22 Tower Rd.
Raymond, Maine 04071

Cory Edwards, Global Sales
800-341-9678

Email: cory.edwards@dielectric.com
Website: <http://www.dielectric.com>

Products/Services: Dielectric is an innovative, customer-centric organization with a long history of engineering excellence in designing and manufacturing high-quality broadcast solutions

DIGIGRAM

82-84 allée Galilée Inovallée
Montbonnot 38330 France
Christelle Savorgnani, Sales Manager,
EMEA & Americas
+33-4-76-52-47-47

Email: sales@digigram.com
Website: <http://www.digigram.com>

Products/Services: Digigram sound cards, IP audio codec solutions and cloud applications are used in thousands of broadcast, AV and industrial applications all over the world.

DIGITAL ALERT SYSTEMS

100 Housel Ave.
Lyndonville, N.Y. 14098
Bill Robertson, V.P. Business Development
585-765-1155

Email: sales@digitalalertsistemas.com
Website: <http://www.digitalalertsistemas.com>

Products/Services: Digital Alert Systems provides the ultimate single-box EAS/CAP solutions for broadcasters with the FCC/FEMA-compliant DASDEC family. It also offers a flexible IP-based architecture supporting a variety of third-party switching, graphics and automation systems streamlining connectivity and operations. Optional integrated AM/FM/WX receivers save valuable rack space and wiring clutter.

These may be the BEST sounding and most RELIABLE Audio Cards ever



AES 16e - 16 AES/EBU I/O Channels

E44 - 4 Analog I/O & 4 Digital I/O Channels

E22 - 2 Analog I/O & 2 Digital I/O Channels

Here's how to find out for yourself for free.

Since 1998 Radio Pros have counted on Lynx PCI cards to deliver reliable, stable audio performance. With the new Lynx E44, E22 and AES16e PCI Express cards, Lynx delivers the same reliability, along with the best specs in the industry. In addition, Lynx PCI Express Audio Cards are designed to operate seamlessly with any radio, production or recording application for both Windows and OSX computers.

Don't take our word for it, find out for yourself. Contact Lynx or your broadcast equipment retailer for a no-obligations trial of the E22, E44 or AES16e cards.

www.lynxstudio.com/radio

Lynx Studio Technology - Designed and
Manufactured in the USA since 1998.

Lynx
STUDIO
TECHNOLOGY

VENDOR & PRODUCT DIRECTORY

DIGITAL RADIO MONDIALE (DRM)

London SW1W 0RH United Kingdom
Radu Obreja, Marketing Director
+44-7740-650-536

Email: marketingdirector@drm.org
Website: <http://www.drm.org>

Products/Services: Digital Radio Mondiale is a global, open, green, cost-efficient, digital radio standard for all frequencies (AM and VHF). The DRM system covers large geographic areas, rural and local markets and when listeners are on the move. DRM can provide emergency warning functionality, traffic and multimedia information.

DJB RADIO

3651 Lindell Rd., D466
Las Vegas, Nev. 89103
Ron Paley, President and Sales Manager
702-487-3336 x 1

Email: sales@djbradio.com
Website: <http://www.djbradio.com>

Products/Services: Since 1995, DJB Radio has developed and installed affordable radio automation supported by industry professionals.

DM ENGINEERING

2174 Chandler St.
Camarillo, Calif. 93010-4611
Dave Mandelbaum, President
800-249-0487

Email: dave@dmengineering.com
Website: <http://www.dmengineering.com>

Products/Services: Manufacture and sales of EAS multi-station adapters, remote controls, automation Interface devices, line of audio-pod mic controllers and headphone amp modules for studio, remotes and podcast apps, single- and multi-line phone flashers, auxiliary relay packs for both studio audio and 115 VAC applications, and silence sense devices.

DOUBLERADIUS INC.

2022 Van Buren Ave.
Indian Trail, N.C. 28079
Jeff Holdenrid, Sales Engineer
704-927-6085

Email: jeffh@doubleradius.com
Website: <http://www.doubleradius.com>

Products/Services: IP microwave specialists. We design, supply, license and integrate IP wireless STLs. With over 15 years IP microwave experience, we are the go-to professionals for IP STLs.

DVMR

320 Rue Saint Honoré
Paris 75001 France
Mourad Redouane, CEO
+33-178-569-173

Email: contact@dvmr.fr
Website: <http://www.dvmr.fr>

Products/Services: DVMR's objective is to accurately meet the "digital" requirements of our clients. In order to achieve this, our solutions are constructed around four principles: custom build, support, innovation and competitiveness. Our tools enable us to adapt to customer requirements.

ECONCO

1318 Commerce Ave.
Woodland, Calif. 95776-5908
800-532-6626

Email: econco-sales@cpii.com
Website: <http://www.cpii.com/division.cfm/11>
Products/Services: Power tube refurbisher.

EFFICIO SOLUTIONS INC.

520 South State St., Ste. 244B
Westerville, Ohio 43081
David Einstein, Co-President
877-333-4246

Email: sales@efficiosolutions.com
Website: <http://www.efficiosolutions.com>

Products/Services: Efficio is an integrated media CRM and sales management solution that provides sales intelligence and analytics via the cloud and syncs with media traffic systems. Efficio offers CRM, account management, inventory and rate maximization, integration with ShareBuilders, vCreative, Miller-Kaplan, and connects the sales cycle from prospect to renewals.

ELBER SRL

Via Pontevecchio, 42W
Carasco GE 16042 Italy
Christian Olcese, Sales Manager
+39-0185-351333

Email: sales@elber.it
Website: <http://www.elber.it>

Products/Services: Since 1978, Elber has produced microwave radio links for the broadcast industry (TV and radio). The attention paid to each and every single phase of production and the use of high-quality components form the benchmark of Elber's philosophy. The company has recently opened divisions for satellite, monitoring and audio systems.

ELECTRONICS RESEARCH INC. (ERI)

7777 Gardner Rd.
Chandler, Ind. 47610
Joe Meleski, Vice President, U.S. Sales
812-925-6000

Email: sales@eriinc.com
Website: <http://www.eriinc.com>

Products/Services: ERI delivers high-quality, innovative, integrated solutions for radio and television broadcasters including the best antennas, transmission line, filters and towers. In addition to manufacturing the full range of components and accessories, ERI offers a suite of engineering and field services to plan, install, optimize and maintain your broadcast facility.

ELENOS SRL

Via G. Amendola 9
Poggio Renatico FE 44028 Italy
Gianluca Busi, Marketing Manager
+39-0532-829965

Email: marketing@elenos.com
Website: <http://www.elenos.com>

Products/Services: With 40,000 FM transmitters installed in more than 100 countries, Elenos is known for its reliable equipment. Exceptional efficiency not only saves electric costs but also means lower cooling requirements, reduced maintenance and longer operational service. Planar technology and compact design make Elenos transmitters scalable and rack-mountable, with powers up to 40 kW.

ENCO SYSTEMS INC.

29444 Northwestern Hwy.
Southfield, Mich. 48034
Ken Frommert, President
248-827-4440

Email: sales@enco.com
Website: <http://www.enco.com>
Products/Services: ENCO is the premier global provider of automated broadcast solutions. The award-winning DAD is the most flexible, powerful and reliable radio automation system available, with recent innovations in cloud-based production and visual radio. Thousands of radio stations rely on ENCO for their automation, playout, scheduling and distribution needs.

See story, page 45

ENERGY TRANSFORMATION SYSTEMS (ETS)

43353 Osgood Rd.
Fremont, Calif. 94539
510-656-2012

Sylvia Presley, Sales Account Executive
Email: sylvia@etslan.com

Website: <http://www.etslan.com/>

Products/Services: Manufacturer of audio, data and video interconnects, networking equipment such as converters, baluns, splitters, snakes, patch panels, etc.

ESE

142 Sierra St.
El Segundo, Calif. 90245
Bill Rajaniemi, Sales
310-322-2136

Email: ese@ese-web.com
Website: <http://www.ese-web.com>

Products/Services: Master clock systems, digital and analog displays. GPS, NTP, WWV, modem, crystal or line frequency-based units. The company also manufactures standalone clocks and timers, audio level interfaces and indicators.

EUROCOM

Parc du moulin
Roissy en Brie 77680 France
Bruno Guers, CEO
+33-1-60-64-21-21

Email: infoweb@eurocom.fr
Website: <http://www.eurocom.fr>

Products/Services: For 20 years Eurocom has been importing and selling professional equipment and offering integration and training for turnkey solutions in the broadcasting industry. Eurocom has an international presence for turnkey installations in France, overseas French territories and African countries.

EVENTIDE

One Alsan Way
Little Ferry, N.J. 07643
Ray Maxwell, VP Sales and Marketing
201-641-1200

Email: rmaxwell@eventide.com
Website: <http://www.eventideaudio.com>

Products/Services: In 1977 Eventide invented the profanity delay, replacing costly analog tape-based solutions with a rack-mounted digital delay. Today, Eventide's flagship, the BD600 offers 80 seconds of profanity protection, unprecedented programmability, micro-precision delay capability and stellar audio performance. Eventide broadcast delays are found in more stations than its competitors combined.

FACTUM RADIOSCAPE

United House, North Rd.
London, N7 9DP United Kingdom
Andy Joseph, International Sales Manager
+44-20-7406-7990

Email: sales@factumradioscape.com
Website: <http://www.factumradioscape.com>

VENDOR & PRODUCT DIRECTORY

Products/Services: Factum Radioscape is a dynamic participant in development and deployment of digital audio broadcasting worldwide. Experience with DAB transmission networks enables the highly experienced engineering team to offer a long-term commitment to product evolution and enhancement. Our capabilities include audio encoding, data insertion, multiplexing, distribution and multiplex management. Monitoring products cover supervision, monitoring and analysis. A voice-break-in system for road tunnels provides information and instructions in the event of an emergency.

FINE PRODUCTIONS

PO Box 661959
Los Angeles, Calif. 90066
Stephen Knight, Owner
310-283-7959

Email: stephenknightvo@gmail.com

Website: <https://voiceoversstephenknight.wordpress.com>

Products/Services: FINE Productions can in whole or in part create copy, voice and edit voiceover commercials, radio imaging, narration, animation, video games, corporate and eLearning projects. We also voice ADR looping in post. Most important to us is serving our client's needs. Call, write or email for your free consultation.

FM SERVICES

Wilkesboro, N.C.
336-667-7091

Email: info@towermonitor.com

Website: <http://www.towermonitor.com>

Products/Services: Manufacturer of TLM-1 tower light monitor.

FRAUNHOFER IIS

Am Wolfsmantel 33
Erlangen 91058 Germany
Matthias Rose, Marcom
+49-9131-776-0

Email: amm-info@iis.fraunhofer.de

Website: <http://www.iis.fraunhofer.de/audio>

Products/Services: Fraunhofer IIS has been working in digital audio technology for more than 25 years and remains a leading innovator of technologies for cutting-edge multimedia systems. Fraunhofer IIS is universally credited with the development of MP3 and co-development of AAC, and has licensed its software to at least 1,000 companies worldwide.

FRONT PANEL EXPRESS

5959 Corson Avenue So., Ste. 1
Seattle, Wash. 98108
206-768-0602

Email: info@frontpanelexpress.com

Website: <http://www.frontpanelexpress.com>

Products/Services: Customizable panels.

FUTURI MEDIA

4141 Rockside Road, Ste. 300
Seven Hills, Ohio 44131
877-221-7979

Email: VIPsupport@futurimedia.com

Website: <http://futurimedia.com>

Products/Services: Futuri Media is at the forefront of developing social and mobile audience engagement technology for broadcasters. We pride ourselves on providing turnkey solutions for your busy team that won't blow your budget. And our 24/7 support team is the best in the business.

[See Profile in Excellence, page 8](#)

GARUDA ROBOTICS PTE. LTD.

Singapore

Email: hello@garuda.io

Website: <http://garuda.io>

Products/Services: Garuda Robotics is a leading provider of end-to-end enterprise robotics solutions. We enable clients in telecommunications, infrastructure management and security to enhance operations using our products such as Garuda TowerSight, a complete UAV system for tower surveys, and Garuda Plex, a cloud-based enterprise software suite for UAV operators.

GATESAIR

5300 Kings Island Dr., Ste. 101
Mason, Ohio 45040

Keith Adams, Marketing Communications Manager
513-459-3447

Email: Americas@gatesair.com

Website: <http://www.gatesair.com>

Products/Services: GatesAir Inc. provides complete solutions for over-the-air radio and television broadcasting, leveraging wireless spectrum to maximize performance for multichannel, mission-critical services. Powering over-the-air networks worldwide with unparalleled reliability for nearly 100 years, GatesAir leads the industry in innovation and design breakthroughs, improving efficiency and reducing total cost of ownership.

GENELEC INC./USA

7 Tech Circle
Natick, Mass. 01760
508-652-0900

Email: Genelec.usa@genelec.com

Website: <http://www.genelec.com>

Products/Services: Manufacturer of powered audio monitors.

STUDIO TECHNOLOGY Studio Furniture

Voice: 610-925-2785

Email: Sales@Studiotechnology.com

Web: www.studiotechnology.com





VENDOR & PRODUCT DIRECTORY

GENELEC OY

Olvitie 5
Iisalmi 74100 Finland
Lars-Olof Janflod, Marketing and PR Director
+358-17-83881

Email: genelec@genelec.com
Website: <http://www.genelec.com>

Products/Services: Genelec has been designing and manufacturing active studio monitors for more than 35 years. Genelec's range of monitors covers every possible audio monitoring need. The company's addition of Smart Active Monitors to its product line is a groundbreaking invention that puts the user in control of their monitoring environment.

GEOBROADCAST SOLUTIONS

875 North Michigan Ave., Ste. 3708
Chicago, Ill. 60611
Hal Keller, VP Global Sales & Business Development
941-347-8415

Email: hal@geobroadcastsolutions.com
Website: <http://www.geobroadcastsolutions.com>

Products/Services: GeoBroadcast Solutions LLC offers proprietary products and solutions to enhance radio station coverage areas to maximize both coverage and revenue, as well as the ability to zone audio (pending FCC approval) and RBDS/ROS.

GLENSOUND

6 Brooks Place
Maidstone, Kent ME14 1HE United Kingdom
Gavin Oavis, Managing Director
+44-1622-753662

Email: sales@glensound.co.uk
Website: www.glensound.co.uk

Products/Services: Designing and building the highest quality audio systems for the broadcast and commercial audio market.

GORMAN REDLICH MFG. CO.

257 W. Union St.
Athens, Ohio 45701
James Gorman
740-593-3150

Email: jimg@gorman-redlich.com
Website: <http://www.gorman-redlich.com>

Products/Services: Gorman-Redlich manufactures EAS encoder-decoders for radio and TV. The CAP-DEC1 decoder unit will translate received CAP V1.2 alerts into EAS headers for both the U.S. and Canada. Other equipment — NOAA weather receivers with SAME decoding and digital antenna monitors (Model CMR) for directional AM antenna arrays.

GRACE BROADCAST SALES

225 SW Skyline Dr.
Pullman, Wash. 99163
Rod Schwartz, Owner
509-332-8423

Email: Ros@gracebroadcast.com
Website: <http://Gracebroadcast.com>

Products/Services: GBS has been helping radio stations sell more advertising for over 25 years. The company provides :30/:60-second audio features ("sales boosters") for holidays, special events, retailers and professionals. Free demos and sales materials at <https://gracebroadcast.com/sales-boosters>

GRAHAM STUDIOS

1805 E Lincoln Ave.

Ft. Collins, Colo. 80524
Rod Graham, Founder
970-225-1956
Email: rod@graham-studios.com
Website: <http://www.graham-studios.com>
Products/Services: Manufacturer of studio furniture.

GRAHAM-BROCK INC.

5971 B New Jesup Hwy.
Brunswick, Ga. 31523
912-638-8028

Email: rsg@grahambrock.com
Website: <http://www.grahambrock.com>

Products/Services: Broadcast technical services for radio.

GSSNET/ALERT FM

600 Jefferson St., Ste. 1102
Lafayette, La. 70501
Matthew Straeb, Executive Vice President
601-709-4240

Email: mstraeb@gssnet.us
Website: <http://www.alertfm.com>

Products/Services: GSS provides EAS and FM RDS technology to radio stations as part of its emergency notification systems available to states, counties, cities, tribal nations and colleges/universities.

HARMAN

8500 Balboa Blvd.
Northridge, Calif. 91329
Rob Lewis, Senior Sales Director
415-867-9550

Email: Rob.Lewis@harman.com
Website: <http://pro.harman.com>

Products/Services: Studer is a worldwide leader in digital mixing technology. Visionary in the broadcast industry since 1948, Studer delivers high quality, innovative products, including digital mixing systems. I/O routing hardware and software and workflow solutions. Studer is a member of Harman Professional, whose brands together provide end-to-end solutions.

HATFIELD & DAWSON CONSULTING ENGINEERS

9500 Greenwood Ave. N
Seattle, Wash. 98103

Ben Dawson
206-783-9151
Email: straume@hatdaw.com
Website: <http://www.hatdaw.com>

Products/Services: Hatfield & Dawson is a Washington State consulting engineering firm with a specialized practice in telecommunications and electromagnetic engineering.

HEIL SOUND LTD.

5800 N. Illinois St.
Fairview Heights, Ill. 62208
Sarah Heil, President
618-257-3000

Email: info@heilsound.com
Website: <http://www.heilsound.com>

Products/Services: Manufacturer of microphones and booms.

HENRY ENGINEERING

PO Box 3796
Seal Beach, Calif. 90740
Hank Landsberg, CEO
562-493-3589

Email: henryeng@aol.com
Website: <http://www.henryeng.com>

Products/Services: Henry Engineering provides products for digital and analog audio interface, USB audio, distribution, mixing, headphones and mic control, tally light and logic control. The New Zero-Delay AES digital OA 2x4 and AES OigiSwitch 3x1 provide solutions for AES digital audio distribution and switching.

HIGH SOUND

Paroissien 2236
CABA Buenos Aires C1429CXH Argentina
Humberto Savoca, CEO
+54-11-4703-3199

Email: highsoundbroadcast@gmail.com
Website: <http://www.highsoundbroadcast.com>

Products/Services: High Sound manufactures analog digital audio processors for broadcasting, antenna systems for AM, ATU, antenna diplexer systems, static dampers, directional antenna design. The company also provides technical and engineering consultancy.

HODGE STRUCTURAL ENGINEERS

22 Chestnut St.
Evansville, Ind. 47713
David Davies, Project Manager, Tower Division
812-422-2558

Email: ddavies@hodgestructural.com
Website: <http://hodgestructural.com>
Products/Services: Specializing in tall towers, from design to analysis and reinforcement, we work with tower owners/station engineers, managing every step of the project. PEs licensed in 49 states.

ICE KRACKERS INC.

273 Circle Or.
Springfield, Ill. 62703
Jim Newbanks, President
800-747-8921

Email: icecrackers@comcast.net
Website: <http://icecrackers.com>

Products/Services: The Ice Cracker is used on guy wires of towers to protect the anchoring hardware and dampeners from damage due to ice slides coming down the guy wires. The Ice Cracker is galvanized and comes with mounting hardware. The Ice Crackers are installed just three feet above hardware being protected.

IK MULTIMEDIA US

590 Sawgrass Corporate Pkwy.
Sunrise, Fla. 33325
954-846-9101

Website: <http://www.ikmultimedia.com>
Products/Services: Manufacturer of audio equipment such as microphones, speakers, USB devices, interfaces and input devices, mixing, processing and editing software and other accessories.

INOVONICS

5805 Hwy. 9
Felton, Calif. 95018
Gary Luhrman, Sales & Marketing Manager
831-458-0552

Email: sales@inovonicsbroadcast.com
Website: <http://www.inovonicsbroadcast.com>
Products/Services: Inovonics manufactures high-quality products for the radio broadcast professional. From our successful range of audio processors and RDS/RBDS encoders to test/monitoring equipment, Inovonics continues to explore the latest developments in broadcast technology and practices, and is dedicated to building products that are smart, powerful and intuitive to use.

See Profile in Excellence, page 10

VENDOR & PRODUCT DIRECTORY

INSOFT LLC

20725 NE 16th Ave, A17
North Miami, Fla. 33179
Alex Bonello
786-292-2811
Email: info@insoftus.com
Website: insoftus.com

Products/Services: Insoft LLC is a U.S.-based company that specializes in radio solutions, with headquarters in North Miami, Florida. Our team has more than 20 years of experience in the fields of broadcast and digital communications. As a pioneer in visual radio, our company has been helping hundreds of broadcasters from all over the world enter the era of visual radio; allowing them to increase their market share, while making extra revenue from visual advertising, VOD contents, and social media monetization.

INTERNATIONAL DATACASTING

50 Frank Nighbor Pl.
Kanata, Ont. K2V 1B9 Canada
613-596-4120
Email: sales@datacast.com
Website: http://www.datacast.com

Products/Services: Manufacturer of audio encoders and receivers, network distribution devices.

JAMPRO ANTENNAS INC.

6340 Sky Creek Dr.

Sacramento, Calif. 95828
Sonia Del Castillo, Sales/Marketing Administrator
916-383-1177
Email: sonia@jampro.com
Website: http://www.jampro.com
Products/Services: Jampro Antennas Inc. offers complete DTV/DVB-T and HD Radio solutions. With over 50 years of experience, the company also provides FM and TV antennas, combiners, filters, rigid transmission line, towers and field services.

JAVAJAVA RADIO

1849 N Yulan
Springfield, Mo. 65803
Rick Jesse, Installer/Commissioner
417-741-2158
Email: rick@javajavaradio.com
Website: http://javajavaradio.com

Products/Services: SBE-certified CBRE, we travel worldwide, with the talent to install-rebuild-upgrade your equipment on time and on budget. The company also provides translator/transmitter installation and can rewire and reprogram remote control systems.

JBL

8500 Balboa Blvd.
Northridge, Calif. 91329
818-894-8850
Website: http://www.jblpro.com

Products/Services: Manufacturer of powered and un-powered audio monitors.

JEBBIT

4 S. Market St.
Boston, Mass. 02109
Jonathan Lacoste, President and Co-Founder
330-564-6379
Email: jonathan@jebbit.com
Website: http://www.jebbit.com

Products/Services: We help digital sales teams create interactive mobile solutions to drive more revenue and retain current clients. Our interactive content gets white-labeled for each broadcast partner and helps them create solutions that engage, profile and convert any audience.

JK AUDIO INC.

1311 E 6th St.
Sandwich, Ill. 60548
815-786-2929
Email: info@jkaudio.com
Website: http://www.jkaudio.com

Products/Services: JK Audio provides a full line of audio interfaces for broadcast professionals. Phone hybrids for interviews and talk shows, field mixers for remote broadcasts, wired and wireless interface tools for mobile communications.


JUMP2GD

1752 Market St., Ste. 928
Seattle, Wash. 98107
425-641-9043
Allen Hartle

Dielectric.com

 /Dielectric1942

 /Company/Dielectric-LLC

 /Dielectric_LLCC



**LOUD & CLEAR
FOR 75 YEARS**

VENDOR & PRODUCT DIRECTORY

Email: allen@jump2go.com
Website: http://www.jump2go.com

Products/Services: Developer of RDS equipment and software for radio.

JUTEL OY

Elektroniikkatie 4
Oulu 90590 Finland
Jarmo Manninen, V.P., Customer Services & Solutions
+358-207-476-200
Email: sales@jutel.fi
Website: http://www.jutel.fi

Products/Services: Jutel is one of the most experienced suppliers of radio automation and digital broadcasting systems. Our solutions — like cloud-native radio automation platform Jutel RadioMan Access — turn innovations into new business models for radio stations and broadcasters, system integrators and audio distribution service providers around the world.

KALTMAN CREATIONS LLC

Seneca, S.C. 29678
864-885-0500
Email: sales@kaltmancreationsllc.com
Website: https://kaltmancreationsllc.com

Products/Services: Developer and distributor of RF test and measurement software and hardware.

KATHREIN-WERKE KG

Anton-Kathrein-Strasse 1-3
Rosenheim DE-83022 Germany
Wolfgang Niedhammer, Director,
Broadcast Sales — Partner Management
+49-8031-184957
Email: broadcast@kathrein.de
Website: http://www.kathrein.com

Products/Services: Kathrein is an international enterprise active in antenna and communications technology. Since 1919 the group of companies has been developing, producing and marketing a range of antenna systems.

KINTRONIC LABS

PO Box 845
Bristol, Tenn. 37621
Tom King, CEO/President
423-878-3141
Email: ktl@kintronic.com
Website: http://www.kintronic.com

Products/Services: Kintronic Labs (KTL) is a world leader in design/manufacture/installation of analog and HD/DRM-capable AM/MW broadcast transmission systems for 1 kW to 1.5+ MW. KTL also offers FM combiners, outdoor racks, isocouplers, isocoils and patch panels for FM translators. New Products: LAB4.5, LAB9.5 dehydrators; PowerAIM 150 analyzer; LPTV isocouplers/isocoils.

KLINE CONSULTING GROUP LLC

Atlanta, Ga. 30339
Gary Kline, Owner
470-285-2855
Email: gary@klineconsulting.com
Website: http://klineconsulting.com

Products/Services: Consulting engineering firm specializing in capital budget management and cost cutting; corporate and enterprise engineering support; telecom expense reduction; studio and facility design; visual radio; cutting edge technologies; vertical real

estate advice; unlocking land value underneath towers; transmitter site design; signal upgrades; audio processing; and staff recruitment.

KLOTZ COMMUNICATIONS EUROPE

Moriz-Seeler-Str. 3
Berlin 12489 Germany
Robert Trebus, CEO
+49-89-4-51-08-63-0
Email: info@klotzcommunications.com
Website: http://klotzcommunications.com

Products/Services: Klotz Communications offers high-tech audio networking and signal processing solutions for the broadcast, public address and conference markets. Broadcast products include audio mixing and control consoles, audio engines, fiber-optic and AoIP networks and audio routers, network and audio processing solutions for professional audio markets, stage and mixers. It also provides audio systems for evacuation and announcements in public buildings.

KOZACKO MEDIA SERVICES

6890 E. Sunrise Dr., #120-40
Tucson, Ariz. 85750
George Kimble, Associate Broker
520-465-4302
Email: georgeWkimble@aol.com
Website: http://www.radio4sale.com

Products/Services: Whether owning your first station has been a lifelong dream, or you are growing an existing group, we can help you find the radio station that matches your needs and budget. And if it's time to sell we can help you get top dollar.

LAWO GROUP USA

12520 Magnolia Blvd., Ste. 308
Los Angeles, Calif. 91607
Jamie Dunn, Global Sales Director
888-810-4468
Email: sales-us@lawo.com
Website: http://www.lawo.com

Products/Services: Lawo designs and manufactures network, control, audio and video technology for broadcast, developed and manufactured in Germany to highest quality standards. Lawo radio products include digital mixing consoles, virtual radio applications and both traditional and AoIP routing systems.

LBA TECHNOLOGY INC.

3400 Tupper Dr.
Greenville, N.C. 27834
Mike Britner, VP Sales
252-757-0279
Email: LBA@lbagroup.com
Website: http://www.lbagroup.com

Products/Services: LBA Technology supplies and fabricates RF and antenna equipment for AM medium-wave stations worldwide. Our systems include ATUs, diplexers, folded unipoles, mobile towers, FM/TV isocouplers, ground systems and more. LBA makes AM radio towers and masts more effective and efficient to "Reach further, sound better!"

LIGHTNER ELECTRONICS INC.

1771 Beaver Dam Rd.
Claysburg, Pa. 16625
Matthew Lightner, President
814-239-8323
Email: sales@lightnerelectronics.com
Website: http://www.lightnerelectronics.com

Products/Services: Lightner Electronics Inc. is a full-

service broadcast engineering, audio/visual integration and equipment supply firm providing design, repair, fabrication, sales and installation. We offer professional bench repair of all types of broadcast equipment. We also offer an online store that specializes in refurbished broadcast equipment.

LINEQ

1324 Helmo Ave. North
Oakdale, Minn. 55128
Brenda Stadheim, Vice President
866-815-0866
Email: sales@lineq.com
Website: http://www.lineq.com

Products/Services: LineQ is a full-service distributor specializing in audio over IP solutions, with a complete portfolio of premium, networked endpoint solutions from IP audio specialist Barix. LineQ's customized approach ensures tailored systems to meet the needs of systems integrators and end users.

LOGITEK ELECTRONIC SYSTEMS

5622 Edgemoor Dr.
Houston, Texas 77081
Frank Grundstein, Director of Sales
713-664-4470
Email: info@logitekaudio.com
Website: http://www.logitekaudio.com

Products/Services: Logitek's IP-based console and routing systems for IP networking, on-air and production applications bring maximum flexibility to radio operations. Latest is the Helix, which combines standard console functions with multiple touchscreens.

LYNX STUDIO TECHNOLOGY

190 McCormick Ave.
Costa Mesa, Calif. 92626-3307
714-545-4700
Email: sales@lynxstudio.com
Website: http://www.lynxstudio.com

Products/Services: Manufacturer of digital audio interfaces and computer audio cards.

MACINMIND SOFTWARE INC.

583 Orchard St.
Antioch, Ill. 60002
Jay Lichtenauer, Developer
847-603-8865



LBA Technology supplies and fabricates RF and antenna equipment for AM medium wave stations worldwide. Our systems include ATU's, diplexers, folded unipoles, mobile towers, FM-TV isocouplers, ground systems, and more. LBA makes AM radio towers and masts more effective and efficient to "Reach Further, Sound Better!"



3400 Tupper Drive, Greenville, NC 27834
www.lbagroup.com 252-757-0279

VENDOR & PRODUCT DIRECTORY

Email: jay@macinmind.com

Website: <http://macinmind.com/Radiologik>

Products/Services: Developer of Mac software specializing in radio automation playout.

MAGER CONCEPTS

Phoenix, Ariz. 85027

602-791-0045

Email: mager@magerconcepts.com

Website: <http://www.magerconcepts.com>

Products/Services: Manufacturing high-quality, custom studio furniture for the broadcast industry for over 35 years, accommodating every budget from economy to showplace with on-site installation.

MAGIX SOFTWARE

Quedlinburger Strasse 1

Berlin 10589 Germany

305-722-5810

Website: <http://www.magix.com/us>

Products/Services: Developer of digital audio editing software.

MANDOZZI AUDIO SOLUTIONS

Via Volta 2

Ponte Capriasca, Ticino 6946 Switzerland

+41-91-935-78-00

Lucio Gerelli

Email: contact@mandozzi.ch

Website: <http://www.mandozzi.ch>

Products/Services: The engineers working for Mandozzi Audio Solutions design professional products for audio broadcasting that satisfy all operational and technical requirements of the user.

MARKETRON BROADCAST SOLUTIONS INC.

101 Empty Saddle Trail

Hailey, Idaho 83333

Deborah Esayian, Chief Revenue Officer

208-788-6800

Email: desayian@marketron.com

Website: <http://www.marketron.com>

Products/Services: Marketron Broadcast Solutions is a trusted leader in providing enterprise revenue management and digital software solutions for radio broadcasters. We provide a revenue workflow solution for any size broadcaster as well as mobile messaging service and location-based advertising solutions. Proud to be radio's premier partner for 50 years.

MEDIA MASTERS

Sonje Marinkovic 149

Sremska Kamenica, Vojvodina 21208 Serbia

Vladimir Musicki, Founder & CEO

+381-641789789

Email: info@admaster.info

Website: <http://www.admaster.info>

Products/Services: Media Masters offers AdMaster, an affordable and powerful traffic scheduling software that integrates with most any automation/playout capable of importing externally created traffic logs. The software is used by broadcasters around the world, literally from A(ustralia) to Z(ambia).

MEDUCI

PO Box 2

Boyertown, Pa. 19512-0002

Jeff Deck, Sales Engineer

407-879-0002

Email: amstereo@meduci.com

Website: <http://meduci.com>

Products/Services: Manufacturer and direct sales for specialized AM stereo tuners and decoders, meduci is an innovative organization that specializes in custom freelance engineering, research, design and production of electronic products in prototype quantities, up to large-scale manufacturing.

MOORETRONIX

5311 S. Green Ave.

Fremont, Mich. 49412

Bob Moore

231-924-7818

Email: rrmoorej@aol.com

Website: www.mooretronix.com/

Products/Services: Mooretronix specializes in the sale and service of Pacific Recorders & Engineering consoles, modules and accessories for the broadcast community.

MOSELEY ASSOCIATES INC.

82 Coromar Dr.

Santa Barbara, Calif. 93117

Bill Gould, Broadcast Sales Manager

805-968-9621

Email: sales@moseleysb.com

Website: <http://www.moseleysb.com>

Products/Services: Moseley is a pioneer and a leading manufacturer of digital audio and video microwave links. The first to bring a totally transparent studio-to-transmitter link to the crowded, hostile RF environment, Moseley now has over 15,000 microwave systems in service around the world.

MR. MASTER

28720 Roadside Dr., #310

Agoura Hills, Calif. 91301

818-879-8349

Email: aim@mrmasteronline.com

Website: <http://new.mrmaster.com>

Products/Services: Digital programming content delivery service.

MUELLER BROADCAST DESIGN

613 S La Grange Rd.

La Grange, Ill. 60525

Mark Mueller, Owner

708-352-2166

Email: rw@muellerbroadcastdesign.com

Website: <http://www.muellerbroadcastdesign.com>

Products/Services: Mueller Broadcast Design is a broadcast technical consultant with over 30 years' experience specializing in AM directional antennas and diplexing, troubleshooting, rebuilds and in-place upgrades. We can also help with technical compliance, system planning and disaster recovery, and we do FM and translator work too!

MULTICAM SYSTEMS INC.

60 Broad St., Ste. 3502

New York, N.Y. 10004

Paul Stewart, Director of Business Development, North America

248-973-7167

Email: usa@multicam-systems.com

Website: <http://www.multicam-systems.com>

Products/Services: multiCAM Systems designs and develops live video production systems, which feature advanced video switching capabilities and PTZ camera technology for recording, live streaming and podcasting visual radio.

MUSIC 1

Steve Warren, CEO

512-392-2415

Email: Steve@music1.pro

Website: <https://gomusic1.com>

Products/Services: Radio automation and business software developer.

MUSICMASTER SCHEDULING

8330 LBJ Freeway, Ste. B1050

Dallas, Texas 75243

469-717-0100

Email: sales@musicmaster.com

Website: <http://www.musicmaster.com>

Products/Services: MusicMaster Scheduling is the fastest-growing, most powerful music scheduling software for radio and television stations worldwide. Known for its unparalleled flexibility, MusicMaster offers a user-defined database, enhanced third-party system integration, dedicated customer care and customizability designed to meet the needs of all users, formats and platforms.

MXL MICROPHONES/ MARSHALL ELECTRONICS

20608 Madrona Ave.

Torrance, Calif. 90503

310-333-0606

Email: inquiries@mxlmics.com

Website: <http://www.mxlmics.com>

Products/Services: Manufacturer of microphones.

MYAT INC.

360 Franklin Turnpike

Mahwah, N.J. 07430

Dennis Heymans, RF System/Filter Sales

201-684-0100

Email: dheyman@myat.com

Website: <http://www.myat.com>

Products/Services: Highest-quality broadcast products since 1951. Myat's FM products include rigid and flex transmission lines, bandpass filters, multi-station combiners, coax switches, switchless combiners, N+1 switching matrix, adapters, elbows, couplers, patch panels and other related items.

NAUTEL

10089 Peggy's Cove Rd.

Hackett's Cove, N. S. B3Z 3J4 Canada

902-823-5131

Email: sales@nautel.com

Website: <http://nautel.com>

Products/Services: Nautel offers a broad portfolio of digital/analog solid-state radio transmitters: 1-2000 kW AM/MW and 300 W-88 kW FM transmitters; VS300LP for LPFM and solutions for HD Radio. Nautel transmitters offer comprehensive monitoring and control instrumentation via touchscreen or web, outstanding reliability, compact footprints, high efficiency, easy maintenance and 24/7 support.

See story, page 42

NEOGRUPE

14 rue des selliers

Marolles-en-Brie, FR-94440 France

Philippe Halin, CEO

210-757-4700

Email: philippe.halin@neogroupe.com

Website: <http://www.neogroupe.com>

Products/Services: NeoGroupe develops software solutions for radio and television broadcasters. Applications include call screening, promotions manage-

VENDOR & PRODUCT DIRECTORY

ment, budgets/purchases and assets inventory solutions dedicated to customers ranging from high-profile talk shows to major public organizations worldwide. New functions focus on VoIP, social media and smartphone applications.

NETIA

120 Allée John Napier
Montpellier 34000 France
Isabelle Sost Michoux, Communication & Field Marketing Director
+33-467-590-807
Email: contact@netia.com
Website: http://www.netia.com

Products/Services: Netia provides radio automation and playout software, as well as media asset and workflow management solutions to major radio and media groups around the world. Relied on by more 20,000 users in 200 installations, Netia radio automation and broadcast software covers the entire workflow from ingest to delivery.

NEUMANN

One Enterprise Dr.
Old Lyme, Conn. 06371
877-736-6434
Website: http://www.neumann.com

Products/Services: Manufacturer of microphones and audio monitors.

NEUTRIK USA INC.

4115 Taggart Creek Rd.
Charlotte, N.C. 28208
704-972-3050
Email: info@neutrikusa.com
Website: http://www.neutrik.com

Products/Services: Neutrik manufactures connectors and fiber systems for the professional entertainment, broadcast, music and fixed installation industries. From XLRs and patch panels, to Ethernet and fiber optics, Neutrik offers innovative solutions and superior quality in all of its products. Connectors you can depend on show after show.



NEWBAY

5285 Shawnee Rd., Ste. 525
Alexandria, Va. 22312
Paul McLane, Editorial Director, Broadcast/Video
703-852-4628
Email: radioworld@nbmedia.com
Website: www.nbmedia.com

Products/Services: Parent of Radio World. Our mission is to connect audiences to authoritative, informative and compelling content in print, digitally and in person, and to offer unsurpassed value and innovation to our advertisers, sponsors and business partners. Brands also include TV Technology, Radio magazine, Government Video, Broadcasting & Cable, TWICE and many other leading professional titles.

NEXTRADIO

40 Monument Cir., Ste. 500
Indianapolis, Ind. 46204

Libby Hiple, Sales Manager
317-684-2952

Email: sales@nextradioapp.com
Website: http://www.nextradioapp.com
Products/Services: The free NextRadio app is the best way for listeners to experience the music, sports and talk via a smartphone's FM chip or stream on unsupported devices. It is an industry initiative supported by the National Association of Broadcasters, Radio Advertising Bureau and major owners and operators.

NORTHWEST MONITORING SERVICE

PO Box 70144
Eugene, Ore. 97475
James Bradley, Owner
541-3345-2236
Email: jbradleynwms@gmail.com

Products/Services: Monthly frequency measurements for AM-FM-TV-DTV. Mobile service includes California, Oregon, Washington, Idaho and Nevada. Special frequency measurement quotes on request.

NOVA ELECTRONICS

Box 740482
Dallas, Texas 75374
Mike Vanhooser, President
214-725-5621
Email: sales@novaelectronics.net
Website: http://novaelectronics.net

Products/Services: Broadcast engineering and construction, buildouts/upgrades/repairs of AM, FM, TV and SW stations. AM directionals, LPFM/translators, towers and AM ground systems, buried or elevated. New and used transmitter sales, STL systems and field measurements. Services available worldwide.

NPR SATELLITE SERVICES

1111 North Capitol St. NE
Washington, D.C. 20002
Dan Riley, Sales Representative
202-513-2624
Email: driley@npr.org
Website: http://www.nprss.org

Products/Services: Satellite content uplink services, systems and equipment dealer.

NTI AMERICAS INC.

PO Box 231027
Portland, Ore. 97281
Brian MacMillan
503-684-7050
Email: ntisales@ntiam.com
Website: http://www.nti-audio.com
Products/Services: NTI manufactures and distributes the full line of Exel and Minstruments handheld audio test tools and Flexus modular engineering and lab audio analyzers. Our Exel line includes the XL2 audio/acoustics analyzer, the DR2 digital audio generator and the DL1 digital audio analyzer; MR2 & MR-PRO analog generators.

O.C. WHITE CO.

4226 Church St.
Thorndike, Mass. 01079
Richard May Jr., Industrial Sales Manager
413-289-1751
Email: info@ocwhite.com
Website: http://www.ocwhite.com

Products/Services: A standard bearer in mic booms since the 1960s. Our newest Ultima line of ultralow-profile mic booms was honored by Radio Magazine at the 2015 NAB Show. Our ProBoom Elite mic arms are

in use by professional studios, podcasters, hobbyists and ham radio operators around the world. We also offer monitor arms and lighting products.

OMB AMERICA

3100 NW 72 Ave., Unit 112
Miami, Fla. 33122
Rafael Arreaza, Sales Manager
305-477-0973
Email: arreaza@omb.com
Website: http://www.omb.com

Products/Services: International sales division of OMB Broadcast, manufacturer of FM, TV transmitters, antennas, STL units.

OMNIA AUDIO, A TELOS ALLIANCE CO.

1241 Superior Ave.
Cleveland, Ohio 44114
Krissey Rushing, Marketing Manager
216-241-7225
Email: inquiry@telosalliance.com
Website: http://www.telosalliance.com

Products/Services: Omnia Audio was founded by Frank Foti, who used audio processing to enable stations to craft a "signature sound" sounding louder than rivals. This processing is the core of Omnia products.

OMNIRAX FURNITURE CO.

PO Box 1792
Sausalito, Calif. 94966
Philip Zittell, President
415-332-3392
Email: philip@omnirax.com
Website: http://www.omnirax.com

Products/Services: What differentiates Omnirax furniture is our blend of style, functionality and ergonomics, collaborative custom design ability and attention to detail. Let us furnish your entire facility — studios, offices, reception, conference and seating. Trust us with your next project and become a customer for life!

OMT TECHNOLOGIES INC.

Unit 1-1717 Dublin Ave.
Winnipeg, MB R3H 0H2 Canada
Gary Kristiansen, Sales Manager
888-665-0501
Email: sales@imediatouch.com
Website: http://www.imediatouch.com
Products/Services: OMT Technologies Inc. is a solutions provider to the broadcast and media industries. OMT's suite of products includes three suites of iMediaTouch broadcast automation and radio's top-selling digital logger, iMediaLogger. OMT's technology is heard daily by millions of people worldwide through television, radio, satellite and internet broadcasts.

ONAIR MEDYA LTD.

Yukari Dudullu Mah. Necip Fazil Blv. Keyap Sitesi D1 Blok No: 44/56 Umraniye
Istanbul 34775 Turkey
Lüfti Aysan, CEO
+90-216-5407045
Email: info@onair.com.tr
Website: http://www.onair.com.tr
Products/Services: OnAir Medya is an expert in design and manufacturing of FM and TV broadcasting equipment. Our production includes FM and TV transmitters, microwave links, FM-VHF-UHF pallet amplifiers, antenna systems and professional radio studio products. We have been exporting to more than 80 countries for 20 years.

VENDOR & PRODUCT DIRECTORY

ONETASTIC

Via Ghislandi, 47
Brescia 25125 Italy
Alessandro Sponchioni, Sales Director
+39-030-3539080
Email: sales@onetastic.com
Website: <http://www.onetastic.com>

Products/Services: ONETASTIC designs, manufactures and distributes equipment for the transmission of digital radio and television signals. Products include DVB-T/H/T2, ISDB-T/Tb, DAB/DAB+/T-DMB and PAL/NTSC transmitters; gap-fillers; spectrum restorers (EDOCR); GPS synchronization systems, automatic changeovers, multichannel transmitters; and custom-designed RF amplifiers for special applications.

OPTELATOR-STORMIN PROTECTION PRODUCTS INC.

243 21st Ave. N.
St. Petersburg, Fla. 33704
John Pecore, President
727-823-6100
Email: jpecore@earthlink.net
Website: <http://www.optichield.com>

Products/Services: Power quality engineering company. Fiber-optic remote modem isolation (Optelator) used on Gentner, Burk and other remote monitoring equipment. AVR UPS 2200VA rack-mount and floor models — handle backup generators with wide frequency bandwidth issues. Industrial 100BASET surge suppression and low-voltage protection devices.

ORBAN LABS

7209 Browning Rd.
Pennsauken, N.J. 08109-4602
Mike Pappas, V.P. Business Development
856-719-9900
Email: sales@orban.com
Website: <http://www.orban.com>

Products/Services: For over 45 years, Orban has been a benchmark for professional audio processing worldwide and continues today to provide state-of-the-art audio solutions for live performance venues and content creators, as well as radio, TV and internet broadcasters.

ORBITAL MEDIA NETWORKS INC.

76 Inverness Dr. E, Ste. C
Englewood, Colo. 80112
Jonathon Hagans, Sales
303-925-1708
Email: sales@orbitalmedianetworks.com
Website: <http://www.orbitalmedianetworks.com>

Products/Services: Satellite program distribution network.

PARAVEL SYSTEMS

41 W. Lee Hwy., Ste. 59, #124
Warrenton, Va. 20186
Fred Gleason, President
877-447-2728
Email: sales@paravelsystems.com
Website: <http://www.paravelsystems.com>

Products/Services: Paravel Systems is a leading provider of innovative broadcast solutions, like the Radio World and Radio Magazine Best of Show-winning WallTime NTP Clock and Notification System and the open source Rivendell Radio Automation System.

PCUBE inc

P-CUBE INC.

510 County Rd.
Westbrook, Maine 04092
Spencer J. Smith, Managing Director
207-318-3349
Email: spencer@pcube207.com
Website: <http://www.pcube207.com>

Products/Services: P-Cube, with 90 years of combined design experience of its team members, supplies RF components from 100 W to 50 kW for both radio and TV. Products include filters, patch panels, couplers, power dividers and complete systems and subsystems from the output of the transmitter to the input for the antenna line.

PICO DIGITAL

8880 Rehco Rd.
San Diego, Calif. 92121
858-546-5050
Email: sales@picodigital.com
Website: <http://picodigital.com>

Products/Services: Radio program distribution equipment.

PRISTINE SYSTEMS INC.

PO Box 6489
San Pedro, Calif. 90731
Kevin Loper, President
310-831-2234
Email: kevin@pristinesys.com
Website: <http://pristinesys.com>

Products/Services: Pristine Systems Control Room-7 is a complete line of live assist, satellite and music-on-hard drive digital audio systems. It is user-friendly yet powerful enough to handle the demanding tasks with metadata capabilities.

PROAUDIO.COM

1320 Post & Paddock Rd., #200
Grand Prairie, Texas 75050
Mark Bradford, VP/GM
972-660-6100
Email: mbradford@proaudio.com
Website: <http://www.proaudio.com>

Products/Services: ProAudio.com with over 400 lines of equipment has been serving the broadcast market as well as other pro audio markets since 1971.

PRO-COMM INC.

1105 Industrial Pkwy.
Brick, N.J. 08724
Frank Visone, Production Manager
732-206-0660
Email: procomm222@aol.com
Website: <http://www.procomm222.com>

Products/Services: Pro-Comm designs high-power RF microwave devices: RF amplifiers, triode cavity oscillators, sources, transmitters, test equipment for cellular, military, medical, sterilization, university and private labs, etc. Operating frequencies range from 600 MHz to 3000 MHz with powers from 500 W peak to 50 kW peak nominal. Also designs, manufactures and services RF drivers.

PROGRESSIVE CONCEPTS

305 South Bartlett Rd.
Streamwood, Ill. 60107
Eric Hoppe, Owner

630-736-9822

Email: sales@progressive-concepts.com
Website: <http://www.progressive-concepts.com>
Products/Services: FM radio broadcast and LPFM radio broadcast transmitters, coaxial cables, antennas, towers, microphones, mixing consoles, audio processors, accessories and more. Also distributes D&R radio broadcast consoles.

PROPAGATION SYSTEMS INC. — PSI

719 Pensacola Rd., PO Box 113
Ebensburg, Pa. 15931
Doug Ross, President
814-472-5540
Email: sales@psibroadcast.com

Website: <http://www.psibroadcast.com>
Products/Services: PSI designs and manufactures high-quality solutions for FM and TV broadcasting. Products include FM and TV broadcast antennas, combiners, filters and transmission lines. Also available are antenna designs available for all power levels, directional or nondirectional, pattern optimization, customization and multistation requirements. In addition full FM and TV turnkey transmission systems are available.

R.V.R. USA

7782 NW 46 St.
Miami, Fla. 33166
Juan Carlos Sampedro
305-471-9091
Email: juanCarlos@rvrusa.com

Website: <http://www.rvrusa.com>
Products/Services: R.V.R. Elettronica was founded in 1979 and during the following 36 years R.V.R. has formed an established group of companies, consolidating its leader position in the worldwide FM and TV market. R.V.R. can supply analog and digital, air and liquid-cooled FM and TV transmitters, antennas, filters, combiners and accessories.

RADIAL ENGINEERING LTD.

1588 Kebet Way
Port Coquitlam, B.C. V3C 5M5 Canada
604-942-1001
Email: info@radialeng.com
Website: <http://www.radialeng.com>

Products/Services: Radial Engineering Ltd. is a Vancouver, B.C. —based manufacturer of professional audio products. Brands include: Radial, Primacoustic, Reamp, Hafler and Jensen. Quality construction and exceptional audio performance are the underpinnings that have served to make Radial one of the most respected brands in the industry.

RADIO SALES CAFE (RADIOSALESCAFE.COM)

RadioSalesCafe.com
Rebecca Schwartz, Administrator
Email: rebecca@gracebroadcast.com
Website: <http://www.radiosalescafe.com>

Products/Services: Radio Sales Cafe is the online community exclusively for radio advertising sales professionals. With thousands of members worldwide sharing ideas and resources, solving sales problems, brainstorming, etc., Radio Sales Cafe has become "the preeminent resource" for radio sales today (Small Market Radio Newsletter). Join us! Membership is free at RadioSalesCafe.com.

RADIO SYSTEMS

601 Heron Dr.
Logan Township, N.J. 08085
Katie McDowell, Office Manager

VENDOR & PRODUCT DIRECTORY

856-467-8000

Email: sales@radiosystems.com

Website: http://www.radiosystems.com

Products/Services: Manufacturer of hybrid and digital consoles, distribution amplifiers, clocks and timers, telephone interfaces and StudioHub+ Cat-5 complete studio wiring systems.

RADIO WORLD

5285 Shawnee Rd., Ste. 525

Alexandria, Va. 22312-2334

703-852-4600

Email: radioworld@nbmedia.com

Website: www.radioworld.com

Products/Services: Radio World is the leading news source for radio managers and engineers, serving the global broadcast and new media marketplace. Visual radio, digital media, streaming, IP audio, new transmission standards, tech tips, newsmaker profiles and more. Part of the NewBay Media family of publications, parent of TV Technology, Radio magazine, Broadcasting & Cable and much more.

RADIODNS

96a Curtain Rd.

London EC2A 3AA United Kingdom

+44-1600-888-335

Email: feedback@radiodns.org

Website: http://www.radiodns.org

Products/Services: Hybrid radio combines broadcast radio and the internet. A broadcast signal (FM, HD Radio, DAB, DAB+) continues to carry audio (and some data), but a radio with an internet connection (Wi-Fi, 3G, 4G, LTE) can seamlessly connect back to a station for multimedia and interactivity. It's an app-like experience for broadcast radio. RadioDNS creates and maintains the open technical standards for hybrid radio. We're a not-for-profit organization that promotes and supports the growth of hybrid radio.

RAM SYSTEMS

27992 West Route 120, Ste. 138

Lakemoor, Ill. 60051

Ron Mitchell, President

815-679-6574

Email: sales@ram68.com

Website: http://www.ram68.com

Products/Services: Manufacturer of studio furniture, acoustic treatment products. Also distributor of Dixon System mixers; Studio Items booms and accessories; and Torpey Time clocks and displays.

RCS

445 Hamilton Ave.

White Plains, N.Y. 10601

Philippe Generali, President/CEO

914-428-4600

Email: sales@rcsworks.com

Website: http://www.rcsworks.com

Products/Services: RCS is a technology company that has been developing solutions for the broadcasting industry for over 30 years. Our products and services are used at more than 14,500 radio stations, TV music channels, cable companies, satellite radio networks and internet stations worldwide.

RFE BROADCAST

via Sila Snc

Nocera Terinese, CZ 88047 Italy

Elena Ditadi, Sales Manager

+39-0968-1945299

Email: elena@rfebroadcast.com

Website: http://www.rfebroadcast.com

Products/Services: RFE Broadcast is an Italian company founded in 2015 by professionals with long experience in broadcast. Our products feature experienced engineering, high-efficiency and complete customization. We have offices in Miami; Curitiba, Brazil; Beirut; and Jakarta. We design and produce FM and TV broadcast products, providing turnkey solutions.

ROHDE & SCHWARZ USA INC.

6821 Benjamin Franklin Dr.

Columbia, Md. 21046

410-910-7800

Email: info@rsa.rohde-schwarz.com

Website: http://www.rohde-schwarz.com/USA

Products/Services: Rohde & Schwarz is a leading supplier of solutions for broadcast and media. The company offers products for post-production, ingest, storage, playout, encoding, multiplexing and transmission. Established over 80 years ago in Munich, Rohde & Schwarz has a global presence and a dedicated service network in over 70 countries.

RUSHWORKS

800 Parker Square, Ste. 200

Flower Mound, Texas 75028

Rush Beesley, President

888-894-7874

Email: solutions@rushworks.tv

Website: http://www.rushworks.tv

Products/Services: Developer and manufacturer of turnkey video systems for radio broadcast use.

SABRE INDUSTRIES INC.

7101 Southbridge Dr.

Sioux City, Iowa 51111

Terrence Becht, Broadcast Sales Representative

800-369-6690

Email: towerinfo@sabreindustries.com

Website: http://www.sabreindustries.com

Products/Services: Manufacturer of broadcast towers.

SAFE2CLIMB

Evansville, Ind. 47715

Julie Flittner, Principal

812-598-7433

Email: info@safe2climb.com

Website: http://safe2climb.com

Products/Services: Pre-Climb Report: Site specific risks for corrosion of buried steel anchors in contact with soil. Valuable addition to Job Hazard Analysis.

SAGE ALERTING SYSTEMS

800 Westchester Ave. Ste. 641 North

Rye Brook, N.Y. 10573

Harold Price, President

914-872-4069

Email: info@sagealertingsystems.com

Website: http://www.sagealertingsystems.com

Products/Services: Emergency Alert System and Common Alerting System hardware and software for the international broadcast industry. Sage's flagship product, the Sage Digital ENDEC, provides combined EAS and CAP support in a fully certified solution. Sage has provided EAS solutions since 1996.

SANDIES

225 Lincoln Hwy. Ste. 167

Fairless Hills, Pa. 19030

David Strode, Owner

215-547-2570

Email: dstrode@comcast.net

Website: http://www.sandiesusa.com

Products/Services: SANDIES manufactures the DYNAMAX MX Series of ON AIR Broadcasting Consoles in 6-18 channel configurations. SANDIES also manufactures the Model 340, 343 and 393 Series Studio Warning Lights displaying "ON AIR," "RECORDING" as well as custom text requests in a multitude of languages and fonts.

SAVE DIFFUSION

23 Rue de la Talaudiere

Saint-Etienne 42000 France

Paul Guibouret, Director

+33-4-77-79-46-79

Email: contact@savediffusion.fr

Website: http://www.savediffusion.fr

Products/Services: Since 1988, Save Diffusion has maintained its position as a market leader for the distribution and integration of broadcast solutions. Providing turnkey solutions, the firm's team offers advanced knowledge of broadcast technologies and associated products.

SCMS INC.

10201 Rodney St.

Pineville, N.C. 28134

Bob Cauthen

800-438-6040

Email: bobc@scmsinc.com

Website: http://www.scmsinc.com

Products/Services: Distributor of radio and TV studio and transmitter products.

SECURENET SYSTEMS

356 SW 12th Ave.

Deerfield Beach, Fla. 33442

Diego Baeza, President of Sales

954-481-9402

Email: dbaeza@cir.st

Website: http://cir.st

Products/Services: All-in-one streaming and podcasting solution for stations and broadcasters all over the world. We offer several player options for live streaming and podcasting/on-demand that allow full control ad serving, a programmatic ad network to earn additional revenue, and free mobile web apps.

SENNHEISER

One Enterprise Dr.

Old Lyme, Conn. 06371

860-434-9190

Website: https://en-us.sennheiser.com/

Products/Services: Manufacturer of wired microphones, wireless mic systems and headphones.

SHIVELY LABS

PO Box 389, 188 Harrison Rd.

Bridgton, Maine 04009

Dale Ladner, Sales Manager

207-647-3327

Email: sales@shively.com

Website: http://www.shively.com

Products/Services: Shively Labs manufactures FM antennas, filters, combiners, coax components and related transmission products. Shively is the industry leader for supplying FM transmission equipment for HD Radio implementation including interleaved antennas, dual antennas, dual-feed multi-station systems and special filtering and combining techniques.

VENDOR & PRODUCT DIRECTORY

SHOUTCAST

Bd International 55K
Brussels, 1070 Belgium
Bruno Grost, Audience & Publisher Business
Development Manager
+32-2-526-20-50
Email: contact@shoutcast.com
Website: <http://www.shoutcast.com>

Products/Services: SHOUTcast, the broadcasting industry's streaming solution, offers radio professionals an end-to-end solution for creating and broadcasting radio stations online. Premium servers and bandwidth, powerful analytics for audience measurement, an automation system, a large directory (50,000+ radio stations) and the possibility to monetize the audience are all provided.

SHURE INC.

5800 West Touhy Ave.
Niles, Ill. 60714-4608
847-600-2000
Email: info@shure.com
Website: <http://www.shure.com>

Products/Services: Manufacturer of wired microphones, wireless mic systems and headphones.

SIERRA AUTOMATED SYSTEMS/SAS

2821 Burton Ave.
Burbank, Calif. 91504
818-840-6749
Website: <http://sasaudio.com>

Products/Services: Developer and manufacturer of digital audio consoles and audio networks.

SINE CONTROL TECHNOLOGY INC.

PO Box 3796
Seal Beach, Calif. 90740
Hank Landsberg, CEO
562-493-3589
Email: hank@sinecontrol.com
Website: <http://www.sinecontrol.com>

Products/Services: PowerClamp TVSS is the industry leader in surge suppression and power protection. PowerClamp TVSS units will help prevent equipment damage by eliminating spikes and surges on the AC power line. PowerClamp's ultra-low Clamping Level assures your gear will operate reliably for years without damage caused by AC power line spikes.

SINE SYSTEMS

4835 North St.
Marcellus, N.Y. 13108
Kevin Smith, Sales / Technician
315-673-3570
Email: kevin@armstrongtx.com
Website: <http://sinesys.com/>

Products/Services: Sine Systems produces the popular RFC-1/B Remote Control and monitoring equipment for broadcast transmitter sites.

SKYWAVES CONSULTING LLC

PO Box 4
Millbury, Mass. 01527-0004
Dave Doherty, Chief Consultant
401-354-2400
Email: dave@skywaves.com
Website: <http://www.skywaves.com>

Products/Services: Strategic technical planning and mapping services. Transmitter site relocation planning, FCC applications.

SMARTS BROADCAST SYSTEMS

2508 Main St.
Emmetsburg, Iowa 50536
Johnny Schad
800-747-6278
Email: johnnyschad@smartsbroadcast.com
Website: <http://www.smartsbroadcast.com>

SONIFEX LTD.

61 Station Rd.
Irthlingborough, Northamptonshire NN9 5QE
United Kingdom
Richard Butlin, Sales Manager
+44-1933-650-700
Email: sales@sonifex.co.uk
Website: <http://www.sonifex.co.uk>

Products/Services: Sonifex has been manufacturing high-quality audio and video equipment for radio and TV studios for 48 years and has a reputation for quality and reliability. The constant need to innovate is an integral part of the Sonifex culture, combining outward-looking ideas with sound and efficient practices.

SPRITE MEDIA INC.

71-15 Loubet St.
Forest Hills, N.Y. 11375
Jeff Schick, President
646-893-8040
Email: info@sprite-media.com
Website: <http://www.sprite-media.com>

Products/Services: Sprite Media introduces state-of-the-art video displays specifically for the radio industry. We provide digital signage for lobbies, studios, newsrooms, sales departments and staff. The content for each display is custom designed using each station's unique colors, logos and presentations.

STREAMGUYS

2212 Jacoby Creek Rd.
Bayside, Calif. 95524
Jonathan Speaker, COO
707-667-9479
Email: info@streamguys.com
Website: <http://www.streamguys.com>

Products/Services: StreamGuys is an industry-leading service provider of live and on-demand streaming, podcasting delivery and SaaS toolsets for enterprise-level broadcast media organizations. The company brings together price-to-performance ratio, a robust and reliable network and an infinitely scalable cloud-based platform to process, deliver, monetize and playout professional streaming content.



STREAMS-MODULATION INDEX, LLC

1249 S. Diamond Bar Blvd. #314
Diamond Bar, Calif. 91765-4122
Greg Ogonowski, President
940-206-7702
Email: info@streamindex.com
Website: <http://www.streamindex.com>

Products/Services: Offering a full line of audio streaming encoders both in software-only and systems for both Legacy ICY and new StreamS HLSdirect, eliminating the need for costly media servers. PAD: Bridge PAD distribution software, IODigi2 AES to USB interface, AoIP Audio Master Clocks, RadioDJ Playout Automation and free HLS HTML5 Players.

TIME TO SYNCHRONIZE

ES-185E/NTP6 GPS Master Clock

Accurately generate time code with ESE's Master Clock via the 12-channel GPS receiver and output multiple types of Time Code, SMPTE-LTC/EBU, ESE, IRIG-B, ASCII (RS-232 & USB), and an extremely accurate 1PPS signal. Further reliability with dual battery back-up, and new control panel software. ESE's NTP6 feature provides an NTP server compatible with the latest version of Internet Protocol, IPv6.

You can also easily interface with new or existing computers, automation and clock systems.

Visit www.es-web.com for all your time synchronization needs.

www.es-web.com
(310) 322-2136



VENDOR & PRODUCT DIRECTORY

STUDER

8500 Balboa Blvd.
Northridge, Calif. 91329
Rob Lewis, U.S. Sales Director
415-867-9550

Email: studer-usa@harman.com

Website: <http://www.studer.ch>

Products/Services: Studer by Harman designs and manufactures IP, HD and SD audio mixing systems for radio and TV. The line extends from powerful IP-based routing and control, to traditional hardwired audio workflows. Award-winning radio solutions include the Micro Series and Glacier Series, and the standalone call management system, CMS.

STUDIO EQUIPMENT

Ave. Haldimand 87
Yverdon-les-Bains, Vaud 1400 Switzerland
Terence Nelson, Owner
+41-24-420-25-75

Email: studio.equipment@bluewin.ch

Website: <http://www.studioequipment.ch>

Products/Services: Systems and acoustic design for studios. Digital and analog consoles from Harrison and Cadac plus analog processors and preamplifiers and microphones. Products for broadcast from Studio Technologies. We also offer consultation services.

STUDIO TECHNOLOGY

529 Rosedale Rd. #103
Kennett Square, Pa. 19348
Vince Fiola, President
610-925-2785

Email: vfiola@studiotechology.com

Website: <http://www.studiotechology.com>

Products/Services: Studio Technology designs, constructs, delivers and installs technical furniture for the broadcast industry nationwide. We provide both custom and standard furniture lines.

SUMMIT SOFTWARE SYSTEMS INC.

PO Box 6489
San Pedro, Calif. 90734
Kevin Loper, Technical Support Manager
310-831-2234

Email: kevin@summitsoftware.com

Website: <http://www.summitsoftware.com>

Products/Services: Formed in 1983, Summit Software Systems Inc. has been working continuously with the broadcast and cable industries to create traffic, billing and ad sales management systems that far surpass the capability of other systems available in the market today.

SURCOM ASSOCIATES INC.

5674 El Camino Real, Suite K
Carlsbad, Calif. 92008
760-438-4420

Email: link@surcom.com

Website: <http://www.surcom.com>

Products/Services: A stocking distributor of vacuum, ceramic and mica RF transmitting capacitors.

TASCAM

1834 Gage Rd.
Montebello, Calif. 90640
323-726-0303

Website: <http://www.tascam.com>

Products/Services: Manufacturer of audio products such as rackmount and handheld analog and digital

recorders, microphones, mixers, speakers, converters, accessories and more.

TEAMCAST INC.

100 North Main St., Ste. 203
Elmira, N.Y. 14901
312-263-0033

Email: salesUS@teamcast.com

Website: <http://www.teamcast.com>

Products/Services: TeamCast is a renowned and active member of digital radio and TV ecosystems worldwide, with innovative technology offerings based on a solid expertise in satellite, digital radio, digital TV and mobile TV transmission. Digital radio products include DAB/DMB modulators, DVB-T2-Lite modulators, repeaters and gap-fillers, DVB-T2 professional receivers.

TELOS SYSTEMS, A TELOS ALLIANCE CO.

1241 Superior Ave. E
Cleveland, Ohio 44114
Krissy Rushing, Marketing Manger
216-241-7225

Email: inquiry@telosalliance.com

Website: <http://www.telosalliance.com>

Products/Services: Telos Systems — part of the Telos Alliance — was founded in 1985 and has since become the industry leader in broadcast telephone systems and IP and ISDN codecs. Telos VoIP broadcast telephone systems are used by top radio stations, offering ROI in as little as 18 months.

THE TELOS ALLIANCE

1241 Superior Ave.
Cleveland, Ohio 44114
Krissy Rushing, Marketing Manager
216-241-7225

Email: inquiry@telosalliance.com

Website: <http://www.telosalliance.com>

Products/Services: For three decades, the brands of the Telos Alliance, including Telos, Omnia, Axia and 25-Seven, have revolutionized radio by pioneering disruptive, cutting-edge audio technology with the goal of helping global networks and local stations produce better programming, improve audience engagement and bolster ratings via pioneering technology and products.

See Profile in Excellence, page 12

TIELINE USA

7202 East 87th St. Ste. #116
Indianapolis, Ind. 46256
Dawn Shewmaker, VP U.S. Operations
317-845-8000

Email: sales@tieline.com

Website: <http://www.tieline.com>

Products/Services: Digital audio codecs for remotes, STLs and multi-point audio distribution. Tieline delivers broadcast-quality 22 kHz FM audio over cellular networks, wired IP, SIP, Wi-Fi, POTS, ISDN and satellite. Codecs include ViA, the Genie and Merlin families, Bridge-IT, Bridge-IT XTRA and Report-IT apps, plus the G3 codec range.

See Profile in Excellence, page 14 and story, page 44

TITUS TECHNOLOGICAL LABORATORIES

77 Kreiger Ln.
Glastonbury, Conn. 06033
Lawrence Titus, Owner
800-806-8851

Email: sales2@tituslabs.com

Website: <http://www.tituslabs.com>

Products/Services: Manufacturer of analog and digital switching equipment, warning light fixtures and custom electronic equipment for radio, television and network stations/facilities.

TRAFFIC DIRECTOR'S GUILD OF AMERICA

26000 Avenida Aeropuerto Bldg. 114
San Juan Capistrano, Calif. 92675
Larry Keene, CEO-Publisher
949-429-7063

Email: tdga@cox.net

Website: <http://www.tdga.org>

Products/Services: Broadcast trade association serving approximately 5,000 traffic scheduling professionals in radio, TV, cable, stations and networks in U.S., Canada and 15 English-speaking countries. Traffic professionals are the revenue management specialists who schedule programs, commercials and create program logs.

TRANSCOM CORP.

2655 Philmont Ave., Ste. 200
Huntingdon Valley, Pa. 19006
Martin Cooper, President
215-938-7304

Email: transcom@fmamtv.com

Website: <http://www.fmamtv.com>

Products/Services: Transcom has been providing used transmitters to the radio and TV broadcast industry since 1978. In addition, we offer new antenna, cable, STL/MW and other RF equipment.

TRANSMEDIA RADIO NETWORKS

3201 Danville Blvd. Ste. 150
Alamo, Calif. 94507
Dave Adams, President
925-678-1940

Email: dave@transmediasf.com

Website: <http://www.transmediasf.com>

Products/Services: Syndicators of "Point Of Law," America's longest-running short-form feature. We also operate the Spotttraffic radio commercial distribution network.

TRANSMITTERS 'R' US

35, Brompton Square Knightsbridge
London SW3 2AE United Kingdom
David Shapiro, Manager
+44-203-290-8399

Email: info@transmittersrus.com

Website: <http://www.transmittersrus.com>

Products/Services: With outlets in London, UK & Limassol, Cyprus, Transmitters 'R' Us are now established as an international distributor of both studio & transmission broadcast equipment. We are dealers for all of the major brands and are able to service our customers across the globe.

TUNWALL RADIO LLC

15250 NW 50th Ave.
Trenton, Fla. 32693
Steve Tunwall, Owner
330-995-9642

Email: info@tunwallradio.com

Website: <http://www.tunwallradio.com>

Products/Services: Tunwall Radio LLC manufactures broadcast switch and transmitter control systems. In addition to standard units offered in the TRC Series, we produce custom AM and FM controllers, from simple one-switch modifications to multi-switch and antenna systems.

VENDOR & PRODUCT DIRECTORY

UncompressedMusic.com

UNCOMPRESSEDMUSIC.COM

307 Brown St.
Waxahachie, Texas 75165
Dave Scott, CEO
866-500-0500

Email: orders@uncompressedmusic.com
Website: http://uncompressedmusic.com

Products/Services: Music for radio stations, CD-quality .WAV files for automation with auto-import of artists, titles, intros, segues and endings. With database for music scheduler. Better quality, faster startup, cleaner radio versions and less expensive than any other source.

VIDHI TECHINNOVATION

B 003, The Ivy Sushant Lok 1, Block A
Gurgaon, Haryana 122009 India
Arpana Dawane, Director
+91-705-307-7777

Email: director@vtion.in
Website: http://www.vtion.in

Products/Services: VTION Pvt Ltd is a media technology innovation firm. Our current focus is media consumption and audience measurement techniques for broadcast radio on smartphones in particular. We have developed patent-pending technology that can measure radio usage instantaneously in a passive manner.

V-SOFT COMMUNICATIONS

1600 Picturesque Dr.
Cedar Falls, Iowa 50613
Doug Vernier, President
319-266-8402

Email: info@v-soft.com
Website: http://www.v-soft.com

Products/Services: Software products and support for broadcast allocation and propagation predictions analysis. Used for finding new frequencies or mapping comparative transmitter sites for AM, FM, TV and microwave. Our products are in routine use at the FCC and Industry Canada and with broadcast engineering consultants and engineers worldwide.

WARD-BECK SYSTEMS

945 Middlefield Rd., Unit 9
Toronto, Ont. M1V 5E1 Canada
416-335-5999

Email: sales@ward-beck.com
Website: http://ward-beck.com

Products/Services: Manufacturer of analog and digital audio interconnects, networking equipment, audio distribution equipment, cables, audio monitors, audio meters, accessories and more.

WEDEL SOFTWARE BV

Regulussweg 5
The Hague 2516 AC Netherlands
Timothy Paulissen, Key Account Executive
+31-79-34-34-721

Email: welcome@wedelsoft.com
Website: http://www.wedelsoft.com

Products/Services: Wedel Software is global leader in traffic management and media sales for the broadcast and advertising industries, offering a powerful integrated system of customizable interlinking modules, which deliver seamless end-to-end processes across every part of the sales lifecycle. Headquartered in Europe but with a worldwide presence that includes the U.K., USA, Asia, Australia and New Zealand.



WHEATSTONE CORP.

600 Industrial Dr.
New Bern, N.C. 28562
Jay Tyler, Director of Sales
252-638-7000

Email: jay@wheatstone.com
Website: http://wheatstone.com

Products/Services: Wheatstone Corp. designs and manufactures professional broadcast audio equipment under the Wheatstone, Audioarts Engineering, PR&E and VoxPro brand names. Products include digital audio consoles and control surfaces, analog audio consoles, networked digital audio systems, audio-over-IP, digital audio editing hardware, software and signal processing for on-air and studio applications.

See Profile in Excellence, page 16

WHIRLWIND USA

99 Ling Rd.
Greece, N.Y. 14612
585-663-8820

Email: sales@whirlwindusa.com
Website: http://whirlwindusa.com/

Products/Services: Whirlwind manufactures and distributes a variety of products through our worldwide network of independent dealers.

WHISPERROOM

109 S Northshore Dr., Ste. 303
Knoxville, Tenn. 37919-4925
Debbie Sweany, Sales Manager
865-558-5364

Email: info@whisperroom.com
Website: http://www.whisperroom.com

Products/Services: Manufacturer of portable/modular sound isolation booths. We have 26 sizes and two levels of isolation available, a Standard (single-wall) and an Enhanced (double-wall). Sizes range from a modest 3.5 x 2.5-foot one-person unit to a room size 8 x 16-foot booth. A range of application specific optional features are available.

WIDEDRBIT

1160 Battery St., #300
San Francisco, Calif. 94111
415-675-6700

Email: radiosales@wideorbit.com
Website: http://www.wideorbit.com

Products/Services: WideOrbit is a technology platform for media companies to connect audiences and ads, everywhere. Our core solution, WO Traffic, streamlines the workflow for customers in radio, cable and TV, while our programmatic platform is an innovative approach to the buying process, increasing demand for broadcasters and efficiencies for advertisers.

WINMEDIA AMERICA

495 boul. St. Martin Ouest, Ste. 310
Laval, Quebec H7M 1Y9 Canada
Francois Beaumier, CEO
514-984-4912

Email: francois@winmedia.ca
Website: http://www.winmedia.ca

Products/Services: Founded in 1995, WinMedia meets the needs of the radio and TV industries by delivering comprehensive solutions that streamline scheduling and playout. More than 4,100 radios and televisions worldwide rely on the power, flexibility and reliability of Win-

Media solutions for their mission-critical operations.

WORLDCAST SYSTEMS

19595 NE 10th Ave. Ste. A
Miami, Fla. 33179
Tony Peterle, U.S. Manager
305-249-3110

Email: ussales@worldcastsystems.com
Website: www.worldcastsystems.com

Products/Services: WorldCast Systems designs professional, reliable and innovative systems for broadcasters worldwide. Encompassing leading brands APT, Ecreso & Audemat, WorldCast offers everything from audio codecs, RDS encoders, audio processors, FM transmitters, monitoring, test and control equipment through to a unified NMS Software Solution. The company also offers turnkey packages and services.

WORLDDAB

Radio Centre, 55 New Oxford St.
London WC1A 1BS United Kingdom
Bernie O'Neill, Project Director
+44-20-70100700

Email: projectoffice@worldddab.org
Website: http://www.worldddab.org

Products/Services: WorldDAB is the global industry forum responsible for defining and promoting DAB digital radio.

XPERI

5220 Las Virgenes Rd.
Calabasas, Calif. 91302
818-436-1000

Website: http://www.xperi.com

Products/Services: Owner and developer of many media technologies, including HD Radio and DTS entertainment audio.

XYTECH SYSTEMS

9410 Topanga Canyon Blvd., Ste. 200
Chatsworth, Calif. 91311
818-698-4900

Email: sales@xytechsystems.com
Website: http://www.xytechsystems.com

Products/Services: Developer of broadcast business management software.

YELLOWTEC USA LLC

3630 Tivola St.
Santa Ynez, Calif. 93460
Jeff Williams, General Manager
805-931-6081

Email: jeff@yellowtec.us
Website: http://www.yellowtec.us

Products/Services: Solutions for radio, audio and multimedia production studios, Yellowtec products are known for intelligent design. Whether it is for elegant microphone arms, functional support for video monitors, lighted signaling, USB sound cards and production mixers, Yellowtec offers ultimate simplicity in form and function.

ZENON-MEDIA GMBH

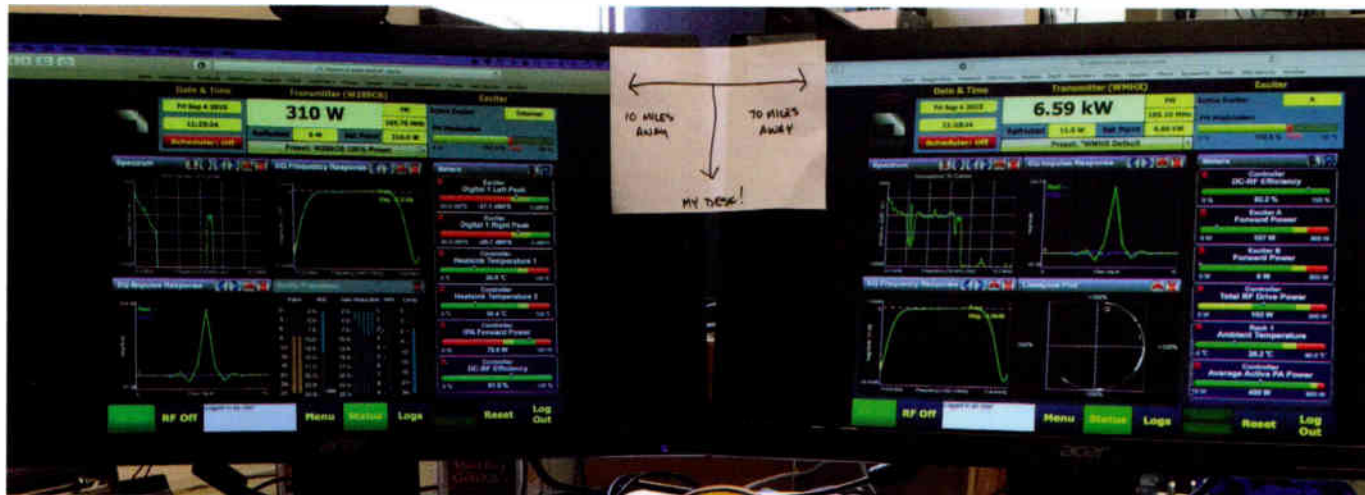
Carl Benz Str.16
Willstätt 77731 Germany
Dominique Wenger, CEO
+49-7852913330

Email: info@zenon-media.com
Website: http://www.zenon-media.com

Products/Services: Zenon-Media is an international company developing radio automation for on-air radio broadcasting. Zenon-Media has offices in Germany, France and Malaysia with and partners all around the world.

Nautel Plays Well in Wisconsin

Advanced User Interface saves time and effort on solving problems



USERREPORT

BY CHRISTOPHER TARR
Director of Engineering
Entercom/Madison, Wis.

HALES CORNERS, Wis. — I oversee six radio stations in two markets, with the two farthest transmitter sites over 90 miles away from each other. To say that I need all the help I can get is an understatement.

I have four Nautel transmitters with Advanced User Interfaces: an NV7.5LT at WMHX(FM) in Waunakee (Madison), Wis.; a GV20 at WOLX(FM) in Baraboo (Madison); a GV7.5 at WMMM(FM) in Verona (Madison); and a VS1 at W289CB in Milwaukee.

In Milwaukee, I use the VS1 for a translator carrying the programming of our AM station. We needed to get this station on the air quickly and reliably. Nautel was the best option, specifically because of the AUI and the VS1's big transmitter features. Typically I feed the programming to the VS1 via a T1 line; however, I wanted to provide a backup

feed in case the T1 or IP link went down. The AUI provides for creating a “failover” preset that can be activated after a certain amount of silence. This preset can play a local playlist of files or even connect to a Shoutcast server.

In my case, I created a Shoutcast server at the studio, and if the T1 goes down, the VS1 automatically connects through its backup internet connection to the server, putting us back on the air. It's kicked in a few times in the past year, and the best part? It's a complete backup to our audio path, and it's free — built right into the AUI. How cool is that?

In the case of the Madison transmitters, the decision to install Nautel transmitters was a no-brainer. My “home base” is 60 miles from Madison, and about 90 miles from WOLX in Baraboo. When there's an issue, I often need more information than “Plate Voltage, Plate Current, and Power Output.” I need to know if this is a minor issue or a major headache. I need to know if there's something I need to bring with me to the site. In short, I need all the data I can gather. The Nautel AUI, and all of

the information it provides is critical in a remote installation such as these.

Any time, even a few minutes, that I can shave of my tasks is a win. Today's engineer doesn't have any time to waste, and I'm always looking for ways to save even five minutes. Nautel's AUI provides me with all of the information I need to assess a given situation. In fact, with Phone Home I can get an email from Nautel before I know there's an issue. No more wondering what I'm going to find at the transmitter site — I know ahead of time what is going on before I walk in the door. In some cases, that can save me hours of driving. The ability to receive an email from your transmitter with alerts is a game changer.

One of the questions Nautel asked me is how the AUI has “saved the day.” It's kind of a different answer for me. I use the AUI on my transmitters all the time, to the point that it's become routine. I find myself wishing everything in my life had one! So really, it saves me time, which saves the day every day.

For information, contact Wendell Loneragan at Nautel in Nova Scotia at (902) 823-5131 or visit www.nautel.com.

Reprinted
from Aug. 2,
2017

Barix Delivers for New World Radio Group

Simplicity and savings sell multicultural broadcaster

USERREPORT

BY BRIAN C. EDWARDS
Vice President
New World Radio Group

WASHINGTON — New World Radio Group has been broadcasting international radio content since 1992, and now it encompasses a trio of stations: WNWR(AM)/1540 in Philadelphia, WCRW(AM)/1190 in Leesburg, Va., and our flagship station, WUST(AM)/1120 in Washington. WUST is known as “the multicultural voice of the nation’s capital,” providing foreign language and English programming to the region’s diverse ethnic communities.

I’ve been a fan of audio over IP for years now, and moved our infrastructure away from traditional telco solutions. With the bandwidth available today, moving to IP just made total sense, as it offers greater scalability and virtually unlimited flexibility. We want to stay on the forefront of technology, and for our paying clients who are supplying programs, we want to get their audio into our studios at the best possible quality.

We chose Barix audio over IP devices, which are distributed in the U.S. by LineQ, to connect our stations and our remote contributors. We were attracted to Barix because of how much functionality their products offer at a cost-effective price point. Beyond affordable pricing for the equipment itself, our IP-based links provide ongoing cost savings versus alternative distribution methods.

The primary application for our Barix units is enabling our client programmers to do remote shows from their own studios, while delivering studio-quality audio into our stations. With numerous Barix units deployed across multiple clients, the cost savings are amplified. We use additional Barix units as backup studio-transmitter links to our transmitter sites, and to backhaul satellite audio inexpensively from WUST to our other two stations. In this latter case alone, we realize big cost savings



by not needing an expensive satellite installation at each location.

We use a Barix Instreamer at WUST to encode audio for distribution to our other sites, and Barix Exstreamer 500s to receive and decode the resulting IP audio streams. For connecting clients’ remote studios, we use Exstreamer 500s at both ends. We chose the Exstreamer 500 because it’s a broadcast-grade model with balanced audio inputs and outputs, which is important given some of the environments we’re installing them in such as transmitter sites. We also have a handful of Exstreamer 1000s for deployments that require AES/EBU digital audio.

The Exstreamer 500 and 1000 are versatile, able to function as either encoders or decoders. That flexibility comes in handy when we get new program producers, as I can grab a Barix unit off the shelf to supply to the client without worrying about its specific capabilities.

Security is crucial to us, and again, Barix

gives us the tools we need. There has been lots of press attention given to hacked radio stations in recent months, but they all shared a common fault — the users had never configured a password on the STL devices. The Barix units do offer security; you just need to use it, which is easy. It takes literally five seconds to set up a password and secure the device.

While the Exstreamer units could be connected point-to-point with static IP addresses, I use the cloud-based Reflector service — offered by Barix in partnership with streaming specialists StreamGuys — for almost all our Barix-driven links. The Reflector service makes setup plug-and-play, without having to manually configure network and streaming parameters.

This simplicity is particularly valuable when supplying Barix encoders to our contributors. I can set up a Barix unit to use Reflector, configure its security and hand it to the client, and

they can take it to their studio. They essentially just plug their studio output into the Barix box, connect it to their internet service, and they’re on the air, with Reflector taking care of the details.

We also like the monitoring functions of the Reflector service, which give me visibility of the performance of the system and notify me of any issues. Like the Barix units themselves, I can access the Reflector service through a browser-based interface, letting me remotely manage and control the equipment at multiple stations from anywhere I go.

From STL to connecting remote studios and occasional on-location remote broadcasts, the Barix Instreamer and Exstreamer devices and Reflector service have securely delivered studio-grade audio with great reliability and remarkable ease of use, all while saving us money.

For information, contact Brenda Stadheim at LineQ/Barix at (866) 815-0866 or visit www.barix.com.

Reprinted
from Aug. 2,
2017

PRODUCT STORIES

Tieline Climbs New Heights in Colorado

Bridge-IT XTRA links remote mountaintop transmitters to studios

USERREPORT

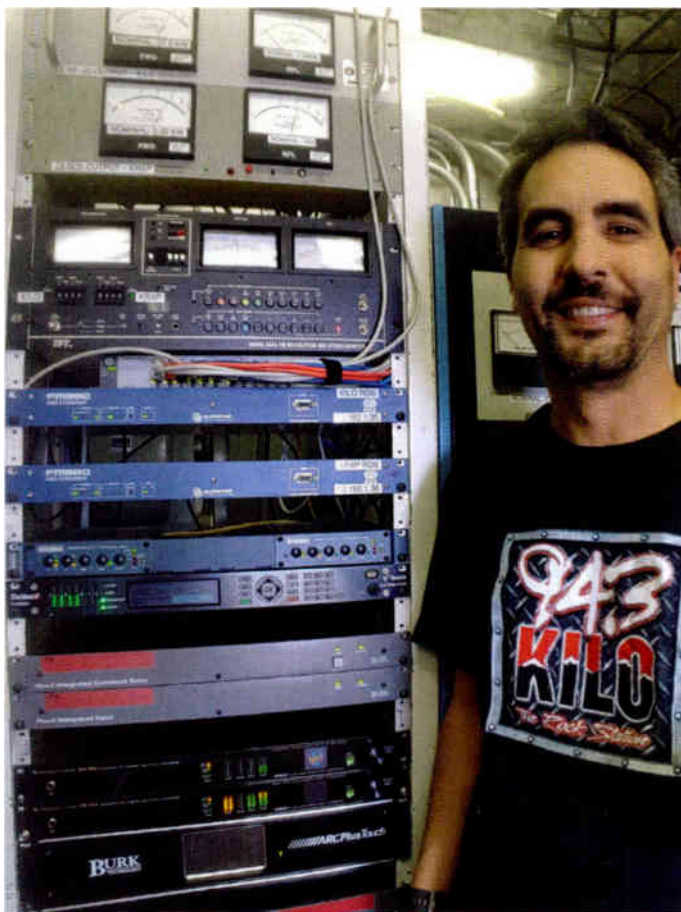
BY BRYAN WATERS
Chief Engineer
Cheyenne Mountain Public
Broadcast House and
KILO(FM), KRXP(FM)

COLORADO SPRINGS, Colo.

— Think of Colorado and you think of mountains, and in a broadcast sense this presents challenges. As a broadcaster, you learn to work within the confines of what's possible based on the rugged terrain and inhospitable weather conditions encountered.

MOUNTAINTOP CHALLENGES

One such example is how we transport STL audio from KCME(FM)'s studio in Colorado Springs to three remote mountaintop locations. These include Breckenridge in Summit County, Methodist Mountain above Salida, and Cripple Creek. KCME has an "all-classical" radio format, so we need to achieve great quality audio. None of these sites has wired network available; previously we used an expensive high-bandwidth satellite receiver to transport audio to each transmitter site. At around \$17,000 per



year, this was prohibitively expensive for a member-supported station. Plus, the connections experienced frequent dropouts due to poor weather conditions.

I first started using Tieline codecs years ago at Citadel Communications (now Cumulus Colorado Springs), and I have broadcast with them in just about every way imaginable; they are versatile and reliable. For KCME, I believed we could improve our results by installing Tielines, so in 2016 we purchased a six-input Tieline Genie Distribution codec with WheatNet-IP and installed it at KCME in Colorado Springs. We also installed a Tieline Bridge-IT XTRA codec at each remote transmitter site. To transport the audio we are using satellite IP data service attached to the codecs at Salida and Cripple Creek. Breckenridge uses a different service provided by the owners of the translator site on Mount Baldi, in Summit County, and is maintained by engineer Gary Peterson.

This has been a complete transformation for us. The connections are so much more reliable. We are not bothered too much about latency, so have employed conservative fixed jitter strategies with remarkable results. Our bandwidth is limited, so we connect using HE-AAC v2 at 64 kbps and the audio sounds much better than before. Lots of listeners have called and written to us to remark about how much better the station sounds which is extremely pleasing.

The other benefit is the cost savings. With lower bandwidth satellite links, we now save significantly on data costs, in fact we recouped the cost of the codecs in less than a year. The ongoing savings are also huge.

The codecs have to be reliable because we are unable to get to the mountaintop transmitter sites for around three months out of the year due to the weather

conditions. They haven't missed a beat and we can remotely log-in to the codecs using the Toolbox web browser configuration tool to effect any configuration changes.

The studios for KILO(FM) and KRXP(FM) are at the foot of Pikes Peak, the most visited mountain in North America and reaching 14,000 feet above sea level. Our transmitter for KILO and KRXP is situated at the top of Cheyenne Mountain and we feed audio to the transmitter over multiple paths.

We use a Moseley 900 MHz STL encoder to feed linear audio directly up the mountain to a Moseley decoder for both stations. As a backup, we use a Genie Distribution codec at the studio to stream two stereo feeds over a 5.8 GHz Ubiquiti link to a Genie Distribution codec top side. Inputs 5 and 6 of the Genie Distribution top side are used to feed an older Marti RF transmitter, which is used to bring audio

(continued on page 46)

REPORT-IT FOR TEMPORARY STLs

When I speak of versatility, I have to mention that I once ran a station for around four hours using Tieline's Report-IT Enterprise smartphone app while I performed some transmitter site servicing tasks. To achieve this, I fed audio from the studio down the return path of a Report-IT smartphone connection and fed this into a Matchbox D.I. box and then into the transmitter. It worked solidly and proved to me that with a bit of lateral thinking, anything is possible in the world of broadcast.

ENCO DAD Is a “Game Changer” for WAHS

High school/community radio station finds ENCO automation makes the difference

USERREPORT

BY KIMBERLY MCKNEE

Station Manager

WAHS 89.5 FM, Avondale High School

AUBURN HILLS, MICH. — Owned and operated by Avondale School District in Auburn Hills, Mich., non-profit WAHS 89.5 FM — branded as “Avondale Community Radio” — provides practical educational experience in radio broadcasting for students at Avondale High School while also serving the local community.

Launched with 10 watts of power in 1975, we now have the furthest-reaching high school radio signal in Michigan at 2,400 watts.

When I was asked to rebuild the program in 2013, WAHS had been dormant for years because of funding cuts; it was simply rebroadcasting another station’s programming. Notably, from a technology standpoint, we had no automation system, which we needed to make our vision of growth a reality.

As an English teacher, I was new to radio, so I started researching automation software. I visited ENCO at a trade show, and the user-friendliness of the DAD platform stood out right away. ENCO also showed a genuine interest in helping our small station achieve big goals. Add to that ENCO’s training offerings and local support, and DAD became the obvious choice.

As our educational justification and funding processes took time, we deployed ENCO DAD in September 2016. ENCO provided extensive on-site training including a one-on-one session with me, and two days with the students.

Our students produce most of WAHS’ content and run many of the day-to-day operations. Our workflow starts with students loading music and other content into the DAD library, with the DAD Dropbox utility making it easy for them to ingest music ripped from CDs or downloaded material. The kids simply drag and drop the files into a folder, and Dropbox performs any necessary conversions and inserts them into the library. We use the same method to bring in original content such as liners, show intros, PSAs and sponsor promotion



spots that students record in our studio and edit with Adobe Audition.

We love producing live-assist shows with DAD’s intuitive Presenter interface. The students bring their content into the daily playlist, set the system to manual operation and do their live show, setting DAD back to full automation afterwards. ENCO also makes it easy to record those shows, do some basic editing and schedule them as replays. We can do a live show during class time in the morning, and by the end of the school day, we have it saved and scheduled to replay in the evening.

Another great ENCO tool we use is the Enconveyor utility. Last year, we expanded our programming to include nationally-syndicated programs alongside music, locally-produced content, along with high school football coverage. Enconveyor makes it easy to bring in syndicated content, automatically downloading the audio files from the web or FTP sites and bringing them into DAD in the format we need.

ENCO DAD’s ease of use has enabled our kids to learn and accomplish a tremendous amount in a very short period of time. In our on-air studio, our everyday student operators start doing live-assist productions with a mentor, and typically master it themselves by the second or third show. Students

performing other functions do a brief tutorial and are mentored a couple of times, then are comfortable enough to go solo.

The system truly has been a game changer for us. Before we had it, the students would go live, but that was the end of the road. They could record something, but there was no way to replay it unless someone was in the studio. We were rebroadcasting another school’s signal and just doing our own small live spots.

Now, with our own production systems, live studio and ENCO automation, we’re fully our own station — in fact, one of the best in the state. Less than six months after we went live with ENCO, we were honored as High School Radio Station of the Year by the Michigan Association of Broadcasters — an accolade that reflects not only our creativity and content, but also the production values that DAD helps us achieve.

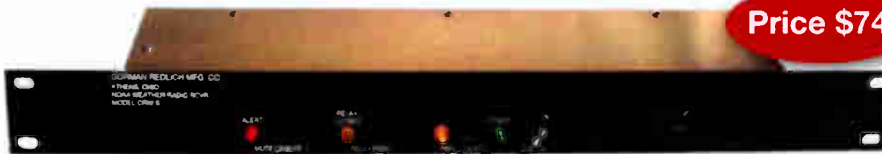
Everyone associated with WAHS is happy we chose ENCO DAD, from the board of education right down to newbie pupils. Our users are students, not professionals, but ENCO is enabling us to produce really good, professional-grade radio broadcasts.

For information, contact Ken Frommert at ENCO Systems in Michigan at (248) 827-4440 or visit www.enco.com.

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down as a remote broadcast backup for each station. There is also a transmitter for KCME on Cheyenne Mountain. We use a Moseley Starlink 900 MHz STL for the primary HD system into a BE FMi703 transmitter.

As a sidenote, Pikes Peak is not too far from Summit House, the purveyor of world-famous Pikes Peak doughnuts. So if time allows, it is definitely worth the trip!

For information, contact Dawn Shewmaker at Tieline USA in Indiana at (317) 845-8000 or visit www.tieline.com.



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