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2022 Fall Product Planner

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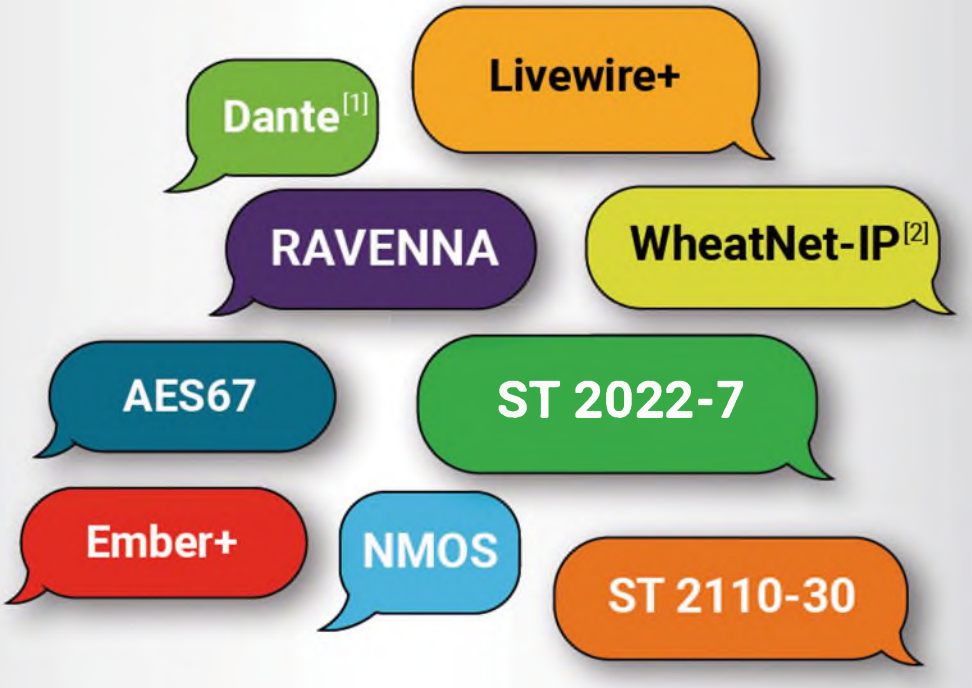

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[1] Dante is a Future release and requres an additional internal card | [2] WheatNet-IP requires an additional internal card

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Here's your Fall Product Planner!

Paul McLane
Editor in Chief

Record a video podcast to the cloud. Upgrade your RF system with improved hardware.

Create a disaster recovery plan for your automation system. Install a new master clock system.

Improve your internet audio quality. Control your transmitter from your smartphone.

You can do all that and more with the products you'll find in this supplement to Radio World.

It contains dozens of new, recently introduced or newly upgraded products from major equipment and service providers who support the radio and new audio industries.

Autumn is a great time to plan your 2023 cap-ex spending (or your new-era op-ex outlays). We hope you'll find these pages helpful.

As always, let me know how Radio World can make our publications more useful to you. Email me at radioworld@futurenet.com.

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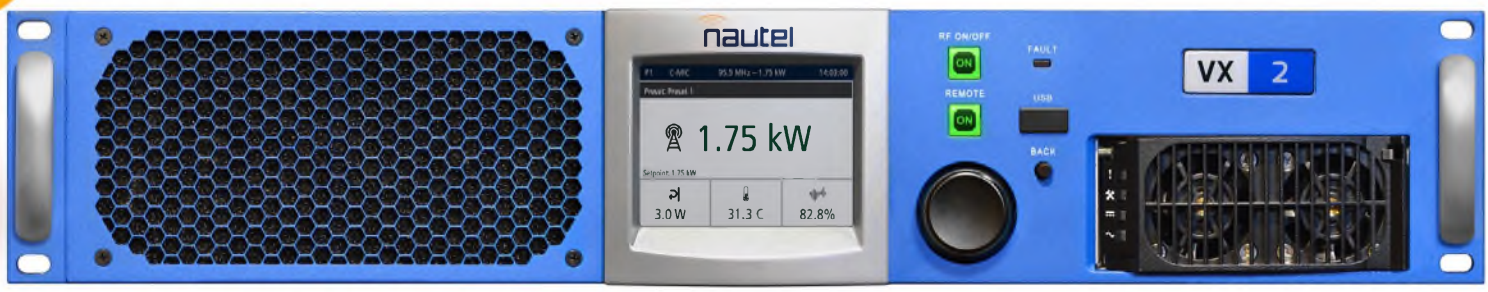

Here Comes Nautel's VX Series

Introduced this spring and scheduled to begin shipping soon are Nautel's new VX Series low- to medium-power analog FM transmitters.

The line consists of 10 models with power output ranging from 150 W to 5 kW.

"Building on the legacy of the company's proven VS Series, the new VX Series offers advanced control, instrumentation and features in a compact footprint," Nautel says.

"The architecture of the new Series incorporates state-of-the-art DSP, power supply and FET technology to ensure robust performance, serviceability and value."

The RF power chain uses a high-voltage FET and is mated with a dual-core DSP. Nautel also highlights its "Titanium-grade" industrial power supplies, which can be swapped out from the front panel. The transmitters are only 20 to 25 inches deep.

Control is via the new HTML5 Advanced User Interface.

Features include RDS, SNMP, presets, Nautel PhoneHome and optional Orban Inside processing.

The company is taking orders for lower-power models, to be shipped in late 2022, while the higher-power models are expected to ship next year.

Info: www.nautel.com

Model 551 Brings Advanced Signal Monitoring

For advanced FM and HD Radio signal monitoring, this new offering from Inovonics simultaneously monitors your off-air FM modulation along with up to four HD Radio channels in real time.

The Model 552 collects a history of signal parameters and displays HD Radio album artwork, station logos and similar visuals on the remote web interface, a sample of which is shown. The 552 includes a BandScanner, real-time clock and full SNMP functionality

Rear-panel alarms constantly check for audio loss, RF loss, multipath and overmodulation, while advanced notifications alert personnel with e-mail or SMS messaging when any or all of the alarms occur.

Spectrum graphs include RF baseband, MPX and Left/Right Audio. O-Scope views for MPX, Pilot, RDS and all audio channels. StationRotation enables you to monitor up to 30 station presets.

Also check out the Model 551, with high-resolution 7-inch touchscreen.

Info: www.inovonicsbroadcast.com

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Chameleon: AI-Based Processing From Angry Audio

Angry Audio says radio program audio processors work for their intended purpose but can be expensive for a streaming application, and hard to set up for consistent quality and loudness.

The Chameleon C4 is controlled by a form of artificial intelligence. It analyzes the incoming audio and continually adjusts its parameters to fit the content. Applications include radio pre-processing, TV audio, remotes, inter-studio feeds, network head-ends and auxiliary HD channels.

"Rather than the usual bazillion knobs and buttons, C4 automates all that complexity," the company says. "No need for that expert. Just hook it up, flip a few switches and Chameleon gets right to work."

The processor was designed by Cornelius Gould to deliver loudness, consistency, punch and clarity, with an open and natural sound.

Angry Audio included a precision loudness controller with which you can set a loudness target from –24 to –14 LUFS via a calibration control, if you choose to use it. So you can comply with loudness standards from Apple, YouTube, AES (proposed), Amazon and others.

Retail price is $999.

Info: https://angryaudio.com

Deploy Containerized Products With Virtual Rack

Virtual Rack from Broadcast Bionics takes the pain out of deploying packaged software with an optimized appliance ready to run broadcast applications.

It is a combination of an optimized appliance (2U or 3U physical) and purpose-built software that enables you to deploy up to 16 Application Units of containerized products quickly and efficiently.

A built-in library facilitates fast and flexible installation. You can link multiple units for large systems. Bionics adds, "It's super-easy to create redundancy and failover."

Info: http://bionics.co.uk

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Flagship Omnia Gets Dynamics Boost

Telos Alliance says its flagship Omnia.11 FM processor now ships with the G-Force Dynamics Engine standard. G-Force is also available as an optional plug-in for units in the field.

"Designed by Frank Foti and Cornelius Gould, Omnia.11 with G-Force represents a significant update to Omnia.11's dynamics, so significant, in fact, that Omnia has updated the GUI to a vivid cobalt blue," the company said.

A dynamics processing framework enables the processor to set the overall EQ for signature consistency, making it sound cleaner, clearer, louder, more consistent, more open, and more pleasing.

The Omnia.11 processor itself is available in FM+HD with separate processing paths for FM or HD/DRM and FM without HD/DRM.

The FM-only model is upgradeable to FM/HD at a later date. Switchable Single Sideband Suppressed Carrier (SSBSC) technology for potential reduction of multipath is standard. A touchscreen GUI on a 10.5-inch diagonal screen provides ease of use and enhanced metering and diagnostics.

Remote access is available via any web browser. Livewire, AES/EBU digital and analog I/O are standard, as are fanless cooling and its rugged 4 RU chassis.

Both FM+HD and FM-only models can be upgraded with an optional Perfect Declipper Plug-In, a new algorithm by Hans van Zutphen that restores clipped areas in audio recordings. The algorithm not only restores dynamics but removes distortion.

Info: www.telosalliance.com

Xpeak Is Intercom Without a Matrix

AEQ has introduced a matrix-less intercom system suitable for remote production.

"Xpeak supports up to 28 user terminals in different formats: desktop, rack, wired belt-pack, wireless belt-pack and PC application," it said.

"All terminals interconnect with maximum operational flexibility and without the need for a matrix."

Interconnectivity is simple even if the devices are on different locations, as long as they have access via the internet.

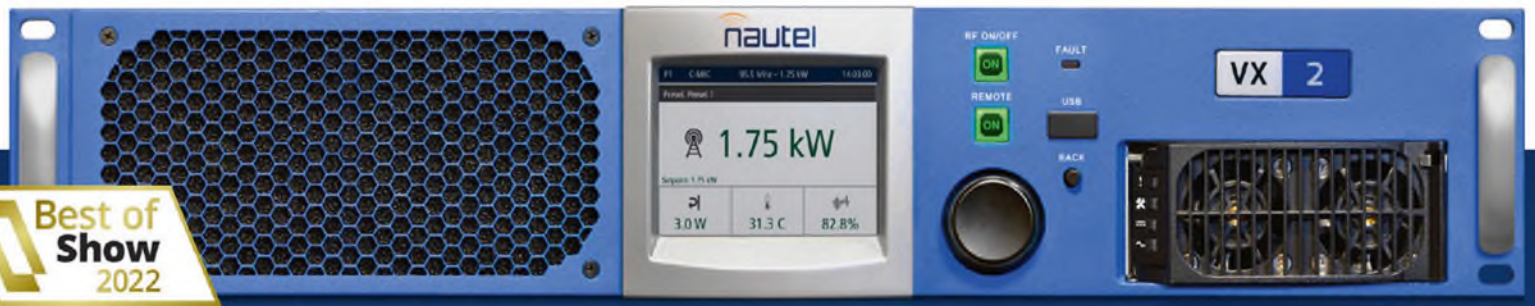
Its wired user terminals have Bluetooth and USB connections, admitting all types of headsets (headphone/microphone combinations) with these interfaces and facilitating connection with smartphones and PCs.

Other recent introductions include the Atrium digital IP audio console and Talent IP audio codec.

Info: https://aeq.es/xpeak

VX Series

150 W to 5 kW FM Analog Transmitters



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RCS Is Ready for Demands of Remote Work

RCS has expanded remote features throughout its product line, focusing on the user experience and automating everyday tasks.

Zetta automation has a revamped Zetta2GO Voice Tracker with Zetta tools like volume points, trim in and trim out. The platform now has multiple Zetta themes, performance improvements for scalability, Virtual Events (identifying multiple assets within a single long-form file) and redesigned Hot Keys.

New Zetta2GO features include expanded drag and drop, keyboard navigation with Windows shortcut functionality, and F1 dynamic help.

Another focus is RCS Cloud, which the company calls a true disaster recovery cloud solution, written for and on Amazon Web Services, following best practices and securities.

"RCS Cloud disaster recovery can not only back up your audio, logs, metadata and SQL backups, securely with Zetta's built in Site Replication service, but we've also incorporated business friendly workflows."

New GSelector 5.0 got a subtle thematic facelift recently, with the addition of new themes, scalable icons and a user-customized Song/Link Window, allowing users to organize and hide or display metadata based on multiple layouts.

"Programmers can already view and schedule their time granularity by hours and minutes, but now, with GSelector's Flex Clocks, users can build their clocks and grids down to the minute or a single clock up to 24 hours a day, allowing for endless programming opportunities to save time and efficiently."

Selector2GO allows users to add or edit elements, adjust clocks, schedule and massage logs, and analyze their spins.

Info: www.rcsworks.com

Tieline Gateway Now Includes Livewire

Tieline's 16-channel Gateway codec leverages flexibility and interoperability by acting as a media converter on the edge of your network, or in a data center, and transporting multiple channels of mono or stereo audio across LANs, WANs and other supported AoIP networks.

Livewire+ support was recently added, and the codec now delivers native support for AES67, ST 2110-30, ST 2022-7, RAVENNA, Livewire+, NMOS IS-04 and IS-05, Ember+, AES3 and analog I/O as standard.

An optional card delivers streaming compliant with WheatNet-IP. An optional Dante card available later this year will support Dante networking. Tieline highlights the codec for its wide range of open standard and proprietary AoIP protocols.

Integrating Livewire+ facilitates stream discovery and advertisement when streaming real-time IP audio between Gateway and Gateway 4 codecs across Livewire AoIP networks.

The Gateway is suitable for audio distribution, STL, studio-to-studio links and managing multiple incoming remotes at the studio simultaneously. It includes SmartStream Plus redundant streaming and data aggregation using Fuse-IP. The codec supports HTTP Shoutcast or Icecast streaming, plus multi-unicasting, multicasting and up to eight channels of phase-aligned surround sound audio. All functions can be remote controlled using the Toolbox HTML5 Web-GUI, or Cloud Codec Controller.

Also, Tieline will soon launch an HTML5 version of its TieServer Console for registering networked codecs to a TieServer domain, as well as configuration and control of Report-IT user accounts. The updated HTML5 browser delivers an improved layout, higher security and more efficient control of Tieline devices connected to TieServer.

Info: www.tieline.com/product

Dielectric AIO Virtualized Modeling Service

Dielectric has launched its virtualized antenna modeling service, with three shipments out the door for two Canadian FM broadcasters. The first shipments include two DCR-H ring antennas and one DCPJ cross-dipole panel antenna.

The Artificial Intelligence Optimization procedure ensures the geometry for each antenna generates the desired radiation patterns while maintaining FCC compliance. Dielectric said its use of High-Frequency Simulation Software (HFSS) helps to drive the computer simulation process for the AIO antenna modeling process.

The company notes that physical antenna models are difficult to manage and take time to get results. They require using standardized tower sections, and the technician must gradually make small adjustments. HFSS makes small changes efficiently across the virtual design process, allowing Dielectric to optimize radiation patterns without time and material constraints or settling on a design.

HFSS also accelerates the workflow from design to shipment. "This process greatly increases the accuracy through direct input of all dimensions that effect the antenna radiation pattern such as tower leg diameter, transmission lines in the aperture of the antenna, antenna orientation, standoff, and ultimately parasitic length, location and orientation," the company says.

The AIO modeling process uses an optimizer that drives AI-driven decision making outside of the HFSS environment. Dielectric's solution utilizes OptiSlang, an optimetric language that reduces setup times (from physical to virtual) by several hours, and reduces man-hour labor from an average of 40 hours to one.

Dielectric's AIO virtualized antenna modeling service is now available for its FM antennas.

Info: www.dielectric.com/

A Podcasting and Internet Radio Solution in One

DJB Radio Studio, a recipient of Radio World's "Best of Show" Award at the 2022 NAB Show, is based on the popular Button Box "infinite cart-wall" app.

It allows you to connect up to 10 audio sources to a PC, laptop or Windows tablet for professional audio podcasting or long-form recording.

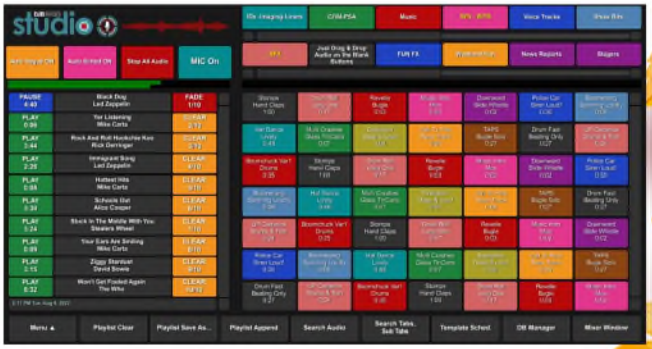
The on-screen virtual mixer features per-channel VU and lets you mix the local cart-wall or play-stack audio with any external USB mic, audio interface or analog device.

"Simply record your podcast with the push of a button, then edit the final product in an easy-to-use waveform editor," the company says.

DJB Radio Studio also carries the tools to run an internet stream or standby automation solution. Its scheduler will rotate music, IDs and other elements while the database editor allows you to catalogue and categorize your audio. Drag and drop your tracks onto the cart-wall and clean them up with the on-board waveform editor.

Talent working remotely can mimic in-studio automation with the built-in playlist editor, play-stack, cart wall and "live-to-tape" voice tracking. It's suitable for morning shows, talk radio contributors, sports commentators and more.

Info: www.djbradio.com



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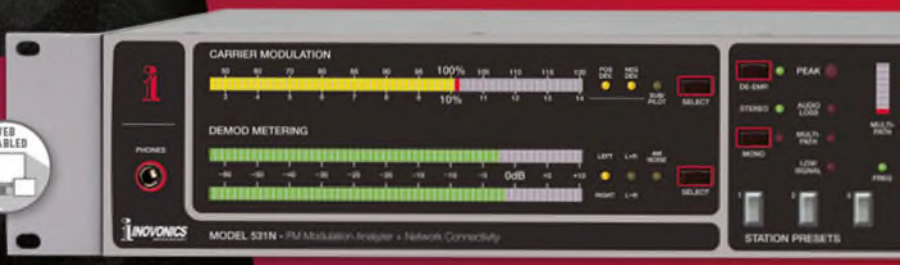

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AT2040 Hypercardioid Dynamic Podcast Mic

The AT2040 Hypercardioid Dynamic Podcast Microphone from Audio-Technica is intended to provide broadcast-quality sound in an economical package. The U.S. minimum advertised price is $99.

Features include rugged metal construction and rejection of room noise due to its tight hypercardioid polar pattern. A-T says the mic excels at isolated/up-close vocal reproduction, providing a smooth, warm and natural sound.

A multistage windscreen combines a nonwoven filter with foam mesh to provide internal pop filtering; the integrated shock mount prevents unwanted noise by attenuating vibration from a boom or stand.

The AT2040's XLR output connects to a conventional analog microphone input, suitable for use with USB audio interfaces and professional mixing consoles. The mic comes with a pivoting stand mount, 5/8"-27 to 3/8"-16 threaded adapter and soft protective pouch.

Info: www.audio-technica.com.

WorldCast Launches Ecreso AiO Series

WorldCast Systems has announced a new generation of Ecreso FM transmitters called the AiO series. The first models are rated at 1 kW and 600 watts.

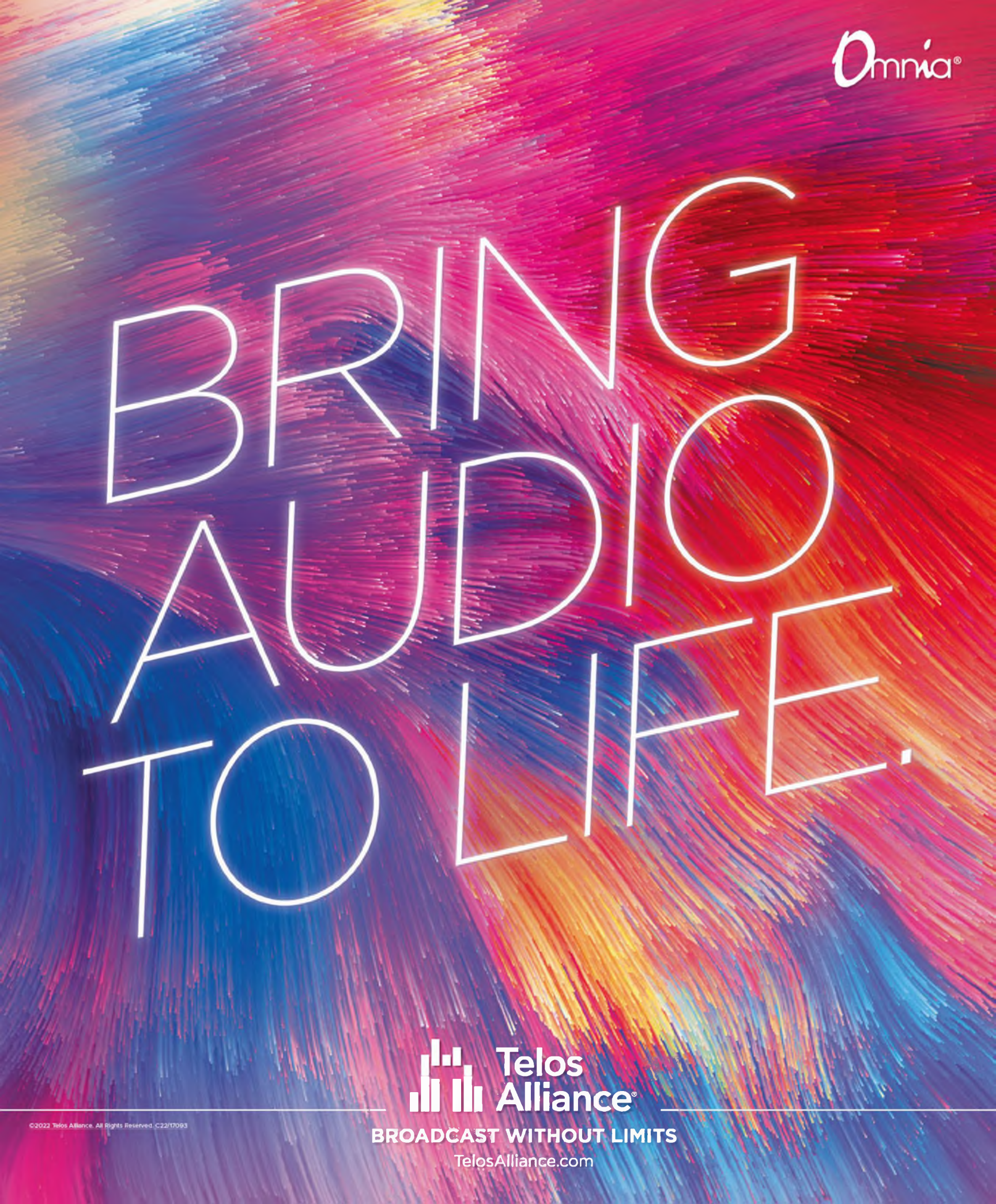
These transmitters occupy only two rack units and are highlighted for efficiency of up to 76% efficiency. "When the patented SmartFM technology is activated, they can further reduce their energy consumption by up to 40%," the company said. "With the soaring price of electricity and growing environmental concerns the AiO series offers reliable performance that also contributes to energy savings and the de-carbonization of FM transmission."

The AoI series features an embedded APT IP Decoder. "It directly ingests audio over IP to the digital FM modulator, and is compatible with both SureStream and APTmpX," WorldCast states. The transmitters also include a new full RDS encoder and UECP capabilities.

Features include a new RF planar design, swappable power supply and a fan that can be removed from the front panel. "For remote configuration, monitoring and network management, there is a user-friendly web and mobile GUI, SNMP support and cloud monitoring with Kybio, another WorldCast software product."

The first models are expected to begin shipping in October. Retail prices range from $4,500 to $9,600. Ecreso transmitters carry a 10-year warranty.

Info: www.worldcastsystems.com/



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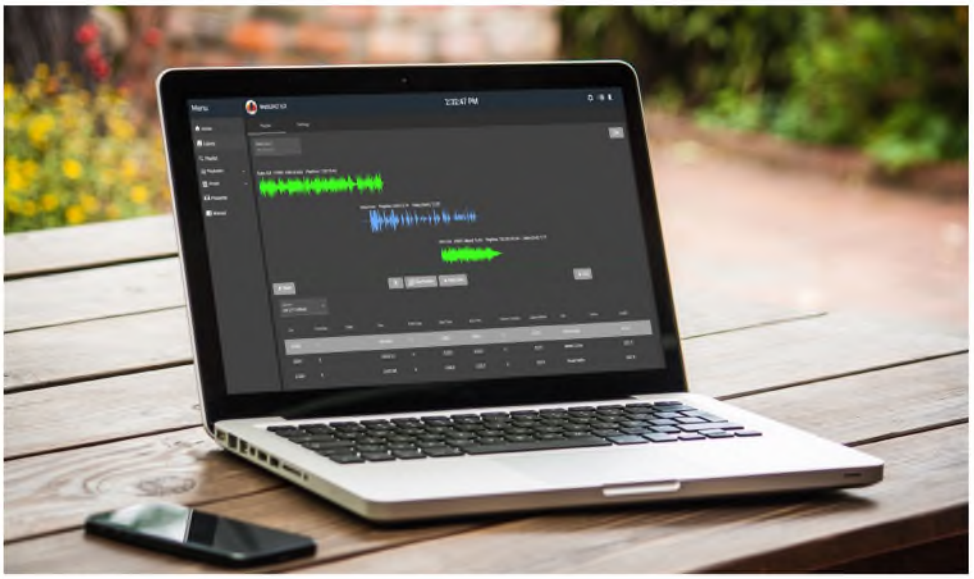
ENCO Highlights WebDAD 3.0



The next generation of ENCO's browser-based, remote automation control interface is WedDAD 3.0.

"The new version features a completely revamped architecture designed to improve the user experience while laying the foundation for future functionality and scalability," the company says.

It lets users remotely manage and control studio-based ENCO DAD systems from anywhere with an internet connection. It supports remote access for functions like uploading content, modifying playlists and voice tracking.

WebDAD lets users manage operations and keep their station on-air even when personnel can't be in the studio, supporting flexible new working models.

The most visible enhancement is a redesign of its browser-based user interface. Layout changes enable more intuitive operation and streamline workflows. Dark/light modes let users tailor the look. Reactive forms retain information across interface screens, minimizing the need to re-enter data in different sections.

ENCO said WebDAD 3.0 also improved security with more granular control over user permissions, such as the ability to restrict access to specified libraries, functions and systems. It added support for third-party accessibility assistance tools.

WebDAD also serves as the user interface for ENCO's cloud-based DAD Disaster Recovery solution, which provides a continually synchronized clone of the broadcaster's on-premises DAD deployment.

Info: www.enco.com

Telos VXs Virtual VoIP System

Telos Alliance introduced broadcasters to the benefits of VoIP with VX, the first VoIP talk show system, in a hardware appliance.

A decade later, Telos VXs helps broadcasters reap the benefits of virtualization as they adapt to changing broadcast workflows and operations, while making it easier for teams to produce content. "Using VoIP, VXs combines modern networking with the power of digital signal processing developed by Telos over the past three decades," the company says.

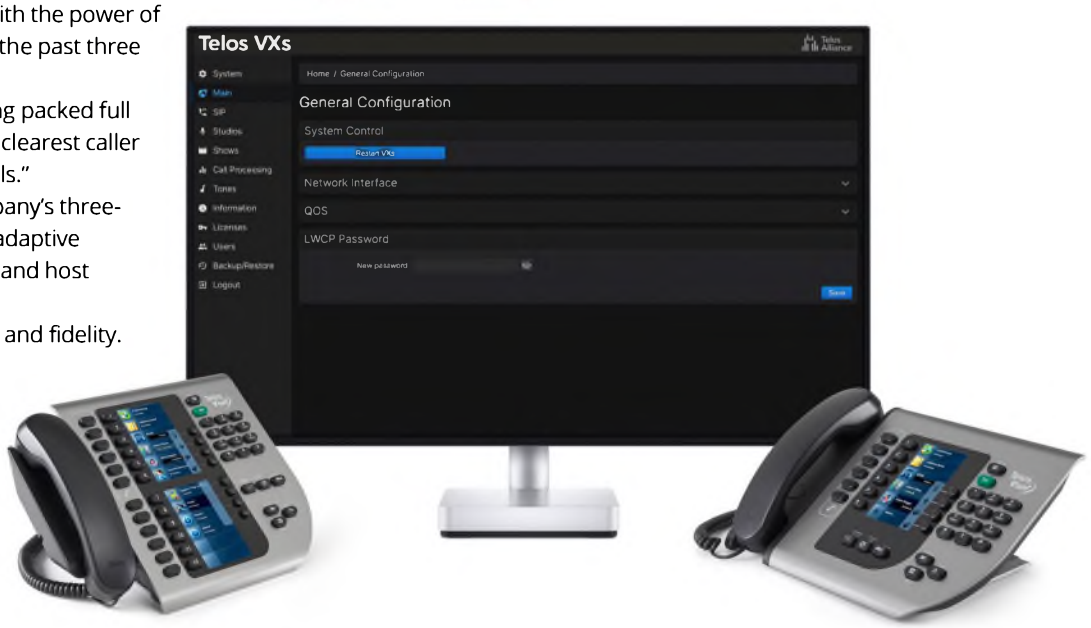
"Every call gets fifth-generation audio processing packed full of technology engineered to extract the cleanest, clearest caller audio from any phone line, even noisy cellular calls."

VXs includes Smart AGC coupled with the company's three-band adaptive Digital Dynamic EQ, a three-band adaptive spectral processor and noise gating. Call-ducking and host override are provided too.

Users can conference multiple lines with clarity and fidelity. "Send" audio has its own sweetening with an AGC, limiter and Acoustic Echo Cancellation technology that eliminates open-mic feedback. Calls from mobile handsets with SIP clients, HD-capable telephone sets and PC apps will benefit from the system's native support of the G.722 codec, improving caller quality.

VXs will work with all console brands, networked or not, using Telos Alliance xNodes and a VXs Call Controller drop-in controller. xNodes break out audio into analog and digital formats, along with GPIO logic commands.

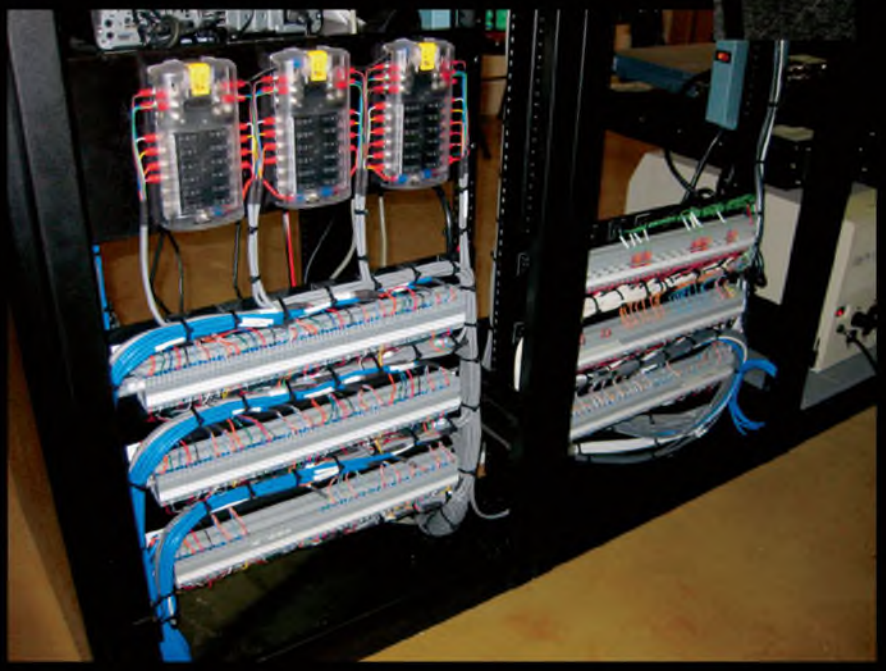
Info: www.telosalliance.com



We're more than just wireless...

Studio & Transmitter Integration

Remote Control Installation



Turn-Key Site Builds

New Equipment Sales

The MaxxKonnect GROUP

Full Service Technical & Connectivity Solutions

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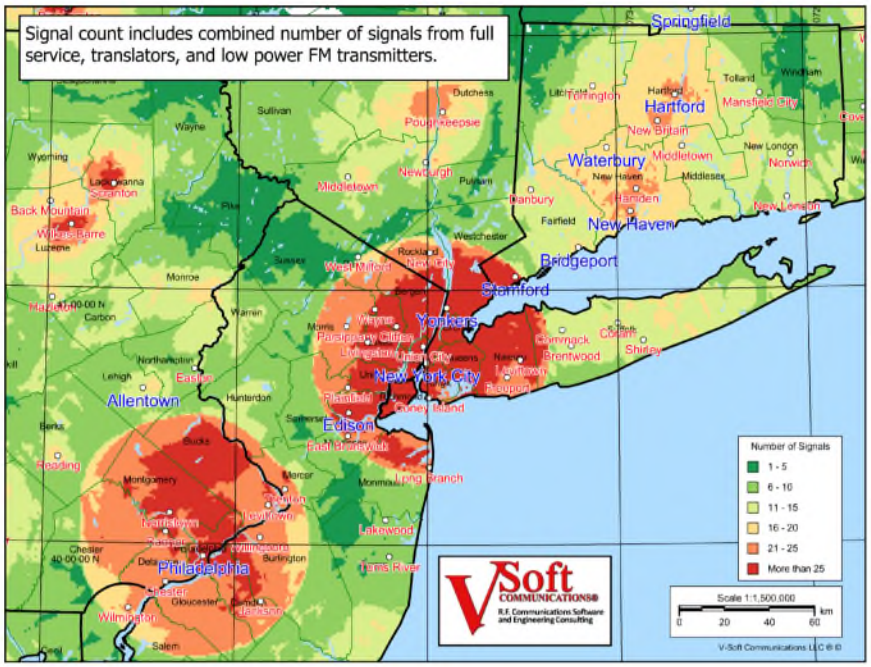
www.maxxkonnect.com

V-Soft Communications Advances Product Line



Probe 5 software from V-Soft provides professional-level RF propagation modeling.

"With the recent addition of authentic U.S. topographic map backgrounds, Probe 5 produces spectacular 'atlas-type' maps integrated with the latest U.S. census high-resolution population databases," the company states.

Probe 5 has always contained propagation modeling programs such as Longley-Rice, Okamura-Hata, Cost-Hata, PTP #1 and #2, line of sight, shadow density and standard contour-based FCC. The ITU propagation model {P. 1546} is optional.

The newly updated Probe 5 features 2020 census TIGER boundary files. These include mapping boundaries for consolidated city areas, county, state and urban areas, as well as the core-based statistical areas, combined statistical areas, metropolitan division boundaries and county subdivisions.

For path profiles, Probe 5 includes an interactive profile tool that graphs the terrain elevation and signal profile between transmitter and receiver points.

Probe 5 software comes in three tiers ranging in price from $7,995 to $13,995. There are several option modules available including a Single Frequency Network (Booster) module, Measured Signal Import module and ITU-R propagation model.

Info: www.v-soft.com

DHD Rolls Out a Desktop Mixer

The DX2 from DHD began shipping in June. It is a desktop audio mixer for applications such as video editing booths, commentary suites, remote/OB trucks and podcast studios.

According to Christoph Gottert, head of international sales, "It is based on the 52-1214A four-fader central module plus the 52-1220A six-fader expansion unit, both of which are robustly built to withstand round-the-clock operation. The maximum number of faders is determined by the capabilities of the connected core."

The central module has four faders plus a dedicated section for setup, monitoring and talkback. Connectivity features include a broadcast-quality XLR mic input, right and left line outs to feed active loudspeakers, a 6.3 mm jack stereo headphone output plus a 3.5 mm mini jack input port that allows direct audio insertion from a smartphone for phone interviews.

The expansion module has six professional-grade 100 mm motorized faders with dust protection. Each channel incorporates faders, two control buttons, a UTF8-supported channel identifier, adjustable gain settings, an input channel meter and program/off-air selection. Each fader can support a second layer.

Both modules are equipped with a user-configurable 7.8-inch multi-touch screen for viewing fader and central control parameters. The optional Assist App 52-8512 can be used to control the mixer via a 1:1 copy from any browser. The DX2 can be connected to all DHD XC3 and XD3 processing cores. It integrates with Series 52 I/O modules such as the Dante or AES67 AoIP interfaces, 3G/HD SDI embedder/de-embedder, MADI or DHD APC audio.

Info: https://dhd.audio

DAD: Powerful Radio Automation

DAD is an audio playout and automation system trusted by thousands of broadcasters worldwide. Forged over decades, DAD's flexible, customizable and interoperable architecture and interface support a variety of workflows. From centralized content and effortless scalability to cutting-edge virtualization and mobile solutions, a DAD system is the perfect fit for your station now and into the future.

WebDAD Browser Control for DAD

Access your DAD system from down the hall or around the world with the latest WebDAD 3.0. Enable multiple concurrent users to work on the same DAD system via browser. Voice track and edit, manage libraries and cuts, edit playlists, and more with the speed and precision of native browser control.

More than Recovery, it's Disaster Avoidance

When you add ENCO's DAD-DR Cloud-based sync backup and recovery solution, WebDAD becomes the cornerstone of your Disaster Recovery control center. If your studios go down, you can directly log into the constantly-synced Cloud-based DAD instance, knowing DAD-DR kept your playlists, libraries, and logs in sync between the studio and Cloud.

Learn more and schedule a demo today!

ENCO.com/DAD

Sales@enco.com

ENCO

A Multi-Format Problem Solver From Tascam

Tascam's new CD-A580 is a cassette recorder, CD player and USB flash drive recorder all in one. The installation market is one of its targets.

According to the company, its integrated cassette recorder uses a single-direction logic-based transport control. The mechanism facilitates copying content from CD to cassette in addition to being able to record content from the USB flash drive or the Line Inputs.

The transport includes +/–10% pitch control. For playback, Normal (TYPE I), Chrome (TYPE II), and Metal (TYPE IV) cassettes are supported. For recording, Normal (TYPE I) and Chrome (TYPE II) cassettes are used.

As a CD player, the CD-A580 supports playback of CDs, CD-R/CD-RW discs and data CDs containing MP3 files. In addition to conventional CD playback, the system supports repeat, shuffle and programmed playback.

The CD- integrated USB flash drive recorder/player allows users to transfer cassette tape content to MP3 format on a USB flash drive. Additionally, audio from both the CD drive and the Line Inputs can be recorded in MP3 format to USB flash drives.

A RC-1329 remote control, rack ears and mounting screw kit are included with purchase.

Info: https://tascam.com

WinSafe Can Protect Your Station

WinMedia says broadcasters have become vulnerable in a world where cyberattacks have increased more than 50% since 2019.

"Every day you hear about another ransomware threat, hacker attack or climatic change with more and more disasters, so your daily mantra is 'Save, save, save' and 'Protect, protect, protect.'"

The company offers the WinSafe disaster recovery solution to keep your station on the air. In a failure situation you can return to on-air operation with a few clicks, or "load-balance" your signal because a playout is running in parallel from the cloud using the latest copy of your database.

You have also P2V optional VM mirroring of your physical computers, allowing almost instant access to the workstations that are critical to your workflow.

WinSafe provides permanent incremental backup, retaining 14 days of your data and backing up every hour of the year using stealth and anti-malware Hyperion archiving back-up, GDPR-compliant. High-speed D2D2D transfer will help you rebuild your station in as little time as possible.

Info: winmedia.org/winsafe

Telos®

The cleanest, clearest caller audio for VoIP talkshow systems is now available for your virtual workflows.

Telos VXs

TelosAlliance.com/TelosVXs

Telos Alliance®

BROADCAST WITHOUT LIMITS

TelosAlliance.com

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Diamond Is a Modular Broadcast Console

Lawo describes its new console as "a modular powerhouse designed to deliver the fastest, most intuitive workflows yet for radio and TV."

Diamond is configurable and available with a console-width "Virtual Extension" touchscreen option. Diamond can be customized to fit operational scenarios from two-fader production booths to major MCR installations with 60 physical and 120 virtual faders, with tabletop or counter-sunk mounting.

The console's size is suitable for today's smaller studios. Information is provided to operators via high-resolution color TFT displays per fader strip, touch-sensitive faders and rotary controls, and customizable color-coded control groups.

Nine types of module offer two fader styles, full- and half-width monitor options, and several key/rotary control modules. The Virtual Extension's 13.3-inch HD color touchscreens visualize context-sensitive data like loudness metering, EQ curves, compression settings, DSP functions and routing setups.

"Diamond also provides smart tools that speed up production workflows, like the AutoMix function that automatically maintains the balance of multi-mic productions, AutoMix Grouping which applies automatic mixing to multiple independent source groups, and AutoGain, an automatic gain setting function that optimizes guest and host mic levels at the touch of a button," Lawo says.

This is a native IP device, and flexible installation options are available. Its mixing engine can be in the studio, placed remotely in a rack room or data center, or installed in a remote facility and connected via LAN or WAN.

The mixing engine is Lawo's compact 1RU Power Core, which accommodates hundreds of AoIP, MADI, Dante, AES3 and analog signals. License packages tailor capabilities to operations; the top-tier MAX license enables up to four independent consoles to share the resources of a single Power Core.

Info: https://lawo.com

New Audio Processing Algorithms for All

Wheatstone said its multipurpose Vorsis MP-532 introduces new algorithms to produce "even deeper lows, detailed highs and a warm and present midrange that until now have simply not been possible from an audio processor."

New distortion-canceling algorithms and precision look-ahead limiters provide clean audio and what the company calls "loudness-ability."

The processor is multipurpose for any broadcast application: FM, AM, FM HD, AM HD, HD-only, or streaming.

In addition to a built-in RBDS/RDS encoder, the MP-532 includes a multiplex power controller, eliminating the need for another costly unit to meet ITU-R BS.412-7 modulation requirements for reducing adjacent-channel interference.

Info: https://wheatstone.com

Orban Serves Your Enterprise

Orban's new Optimod XPN-Enterprise is intended to meet the needs of radio and internet broadcasters who are moving operations to centralized, often virtualized, environments.

It is a Linux-based, customizable processing platform for multiple broadcast stations or streaming services with centralized control. It provides proprietary OptiCloud processing for up to eight FM and eight HD/DAB+ radio channels plus eight internet stream processing channels for a total of 24 output channels, all in a 1 RU package, using an enterprise-class softGear server and the appropriate Optimod XPN-Enterprise Nodes.

Content to be processed is brought to one location, using any of the common methods of audio transport including AES3, AES-67, SMPTE 2110-30 or Livewire+, and creates the necessary outputs (analog, AES3, FM Composite, DMPX and Orban uMPX) using the appropriate Orban XPN-Enterprise Nodes for distribution to each transmitter site.

With this system, Orban says, users get a maximum of flexibility as the setup can be adapted to your needs and changed or extended if required.

The Optimod XPN-Enterprise server supports AES67, SMPTE2110/2027 or Livewire+ and allows you to set up an AoIP audio processing system. Content for each input is individually processed. Opticloud factory presets give users a quick start for each format, and its "Less-More" controls simplify dialing in your stations' sound by combining multiple audio processing parameters with a handful of controls.

Kantar or Nielsen watermarking for each broadcast output is provided using the appropriate XPN-Enterprise Node.
Info: www.orban.com

GatesAir Introduces Flexiva GX

New from GatesAir is a lower-power analog FM transmission line that the company says provides customers with the strongest power-to-size ratio for power levels up to 10 kW. It is called Flexiva GX.

The company says LDMOS technology is deployed to support exceptional power density in a compact 5RU chassis, providing 5 kW and 10 kW FM solutions that deliver an overall efficiency rating up to 76 percent.

"The engineering breakthroughs in power density, efficiency and footprint are made possible through the Flexiva GX's design, enhanced by GatesAir's third-generation PowerSmart high-efficiency transmitter architecture."

It expects that broadcasters seeking to update existing infrastructure for large regional and national networks will be a key user base. The transmitters support N+1 configurations, enabling network operators to build flexible and consolidated transmission sites.

The new series features modular, redundant designs with hot-swappable power supplies. The transmitters provide auto-switching inputs, with dual AES (including AES192), dual composite and analog left/right audio inputs.

Options include a GPS receiver to support SFN functionality, and GatesAir's new Intraplex IP Link 100e module. The latter enables direct receipt of contributed FM content instead of requiring an external codec.

Info: www.gatesair.com

Comrex Gagl Is Now Available

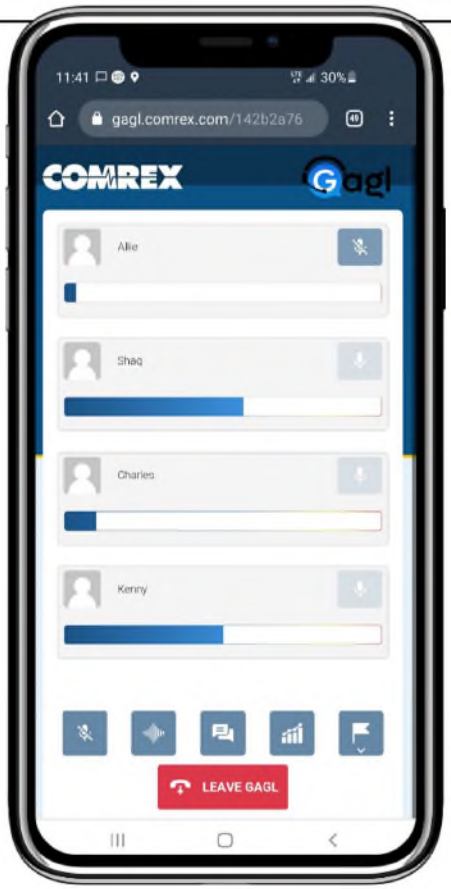
Gagl, a new subscription-based cloud service from Comrex, is now available.

Subscriptions will be available to purchase directly from Comrex for $35 USD per month, or $350 for an annual subscription with a dealer code. New subscribers will get a 14-day free trial.

"Gagl delivers audio from multiple contributors in high quality," the company states. "All participants can hear each other, and their combined audio (if more than one user) is sent to a hardware Comrex IP audio codec such as an ACCESS or BRIC-Link. Gagl supports up to five contributors per session."

Participants connect and send audio by clicking a link using common web browsers on their smartphone or computer, making it accessible for non-technical guests.

Gagl could be used as the hub for a round-robin reporting program or for a "morning zoo" radio show and supports multiple simultaneous connections. Comrex says that because it offers low latency, it's appropriate for call-in talk radio.



"Gagl could also be used to allow a single contributor to connect back to the studio from a computer or smartphone."

Designed with audio quality in mind, Gagl provides stable connections with limited bandwidth. Gagl uses the Opus audio encoder, with a bit rate that the company says delivers both voice and music in excellent quality. Gagl also delivers audio directly to a Comrex codec, with the stability enhancements, pro-grade audio connections and features that hardware codecs provide.

Gagl works with Comrex hardware IP audio codecs including the AES67-compatible ACCESS NX Rack IP audio codec and ACCESS MultiRack multi-channel IP audio codec as well as the BRIC-Link series.

Info: www.comrex.com

Sage Introduces Alert Portal

Released in June by Sage Alerting Systems Inc., Sage Alert Portal is a software add-on for the Sage ENDEC. (It is not a required update.)

"Alert Portal provides a simple browser-based GUI allowing the user to originate over-the-air EAS alerts, permitting Local Primary EAS stations and Local/State/Tribal emergency centers to craft and send legacy EAS messages," the company stated.

Audio can be recorded on the PC and uploaded when the alert is sent, or audio can be fed into the air chain from any other source.

"Alert Portal allows users to choose from a pre-defined set of locations and event types, or select from a list of previously stored alerts. It features optional two-person authentication to reduce the chance of an incorrect origination."

Alert Portal replaces the older ENDEC DJ and ENDEC PRO PC software. Contact Sage for a demo of Alert Portal, which retails for $600 and is available from any Sage distributor.

Info: www.sagealertingsystems.com/

Henry Engineering BackUPS

This failsafe power switcher automatically bypasses a failed (or failing) uninterruptable power supply. If the BackUPS unit detects an unstable UPS output (or no output), it switches to Direct Line power, bypassing the UPS in milliseconds to prevent critical equipment shutdown.

Henry notes that many UPS units become "flaky" when the internal battery ages. The output will drop, then come back on, repeating this cycle until the unit fails completely.

"BackUPS instantly detects this failure and removes the UPS from the circuit," it says. "The UPS can now be removed for safe battery replacement without having to shut down power to the load."

Whenever UPS power is restored, the BackUPS Restart Timer monitors the UPS output voltage for stability. Only when the output is stable for a preset time (user adjustable, 10 sec. to 16 min.) will the UPS be switched back into the circuit. BackUPS can be remotely controlled. Retail price: $325.

Info: https://henryeng.com/

Wheatstone Layers: One Server Does It All

New from Wheatstone is its Layers software suite that runs on commodity servers.

One or two servers can host mixing instances for all your AoIP consoles, locally or remotely, replacing racks of hardware. Also, Layers gives you backup mixing, audio processing and stream provisioning in an instant, controlled from your laptop or tablet with no other hardware required.

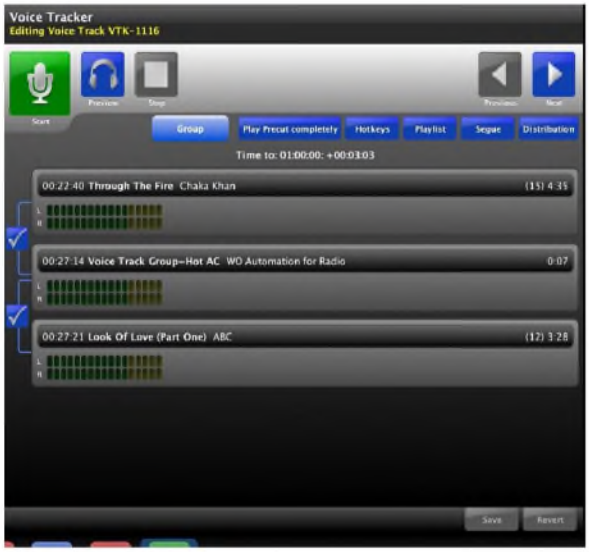
Layers includes "glass" software for the laptop or tablet and server software for mixing, routing, logic and FM/HD audio processing, with full MPX out to the transmitter as well as provisioning and metadata for multiple streams out to the CDN provider.

"Layers is the best of both worlds, combining the scalability of commodity servers with the deep reliability of WheatNet-IP audio networking, a complete AoIP system with console surfaces, virtual tools, routable audio codecs and processing," the company says.

Layers software will be available in late 2022.

Info: https://wheatstone.com

WideOrbit Has V5.0 of WO Automation for Radio



The latest version of WO Automation for Radio includes enhancements for broadcasters conducting "distributed operations" and remote work.

WideOrbit says these improvements help users manage station operations with a decentralized staff; run programming from home or elsewhere via mobile devices; manage content and playlists remotely; and integrate with other systems like MusicMaster and WO Traffic.

"Native apps can be installed and operated from virtually anywhere there's an internet connection, on almost any device, including desktop environments running macOS, Windows or Linux, as well as on iOS mobile devices."

Also new, a "Stop Media Asset Workflow Action" allows on-air assets to be stopped automatically or on-demand. And "Content Import Prioritization" streamlines the downloading of important content first whether from local drives or FTP sites.

Info: http://wideorbit.com

Axia Quasar Line Grows

Axia Quasar is the sixth generation of AoIP consoles from Telos Alliance, which highlights the XR and SR models, offering users the benefits of modularity, scalability and workflow flexibility.

Quasar XR is the company's top-of-the-line mixer, featuring extensive metering built into the surface, on every channel display and next to each fader, as well as on the monitor module.

These LED meters allow users to live mix rather than only confidence monitor, giving them active control over their environments for the best outcome.

Less-seasoned board operators will appreciate the recently introduced Quasar SR model. It retains the ergonomics, industrial design and appeal of the XR line while featuring a streamlined surface design. Fader modules are non-motorized. There are fewer, larger and easier-to-reach buttons on each channel strip, and it features confidence class metering.

"Powered by mature and sophisticated AoIP technology from Telos Alliance, the inventor of AoIP for broadcast, Quasar is designed for steadfast reliability with no single point of failure," the company states.

Info: https://success.telosalliance.com

BURK TECHNOLOGY

centralized data
without the data center

Arcadia24 puts your remote sites in your pocket wherever you are. Inspired by Burk's popular Arcadia system, **Arcadia24** delivers remote facility control for groups or individual stations.

Managed by Burk and hosted in the Burk Cloud, Arcadia24 makes secure remote access easy. No NOC required.

Contactors, engineers and managers will love having instant access over a single web link.

arcadia24

Stay in control wherever you are. Learn more at **www.burk.com/arcadia24**

MADE IN THE USA

Automated Weather Reporting From Summit

Summit Technology Group's latest version of ATMOS Automated Weather Reporting adds approximately 300 new voices, including many multilingual speakers, to deliver weather reports for foreign-language stations.

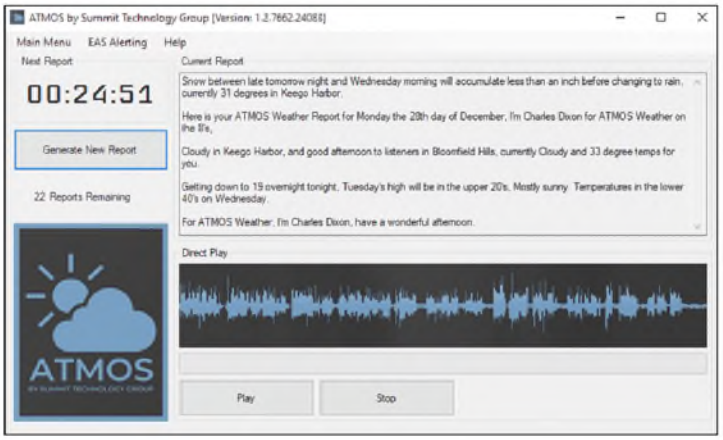
The update also features a new "phrase manager" to perfect the speaking style of the synthesized voice and a "temperature trend" tool that allows users to add to their script templates comparative statements about temperature data.

The phrase manager can be used to replace overly technical weather terms with those suitable for broadcast. For example, instead of the term "broken clouds," the user may prefer the term "partly cloudy." Summit says this tool is also commonly being used for negative temperatures. Instead of "minus 4 degrees" the user may prefer to hear "4 below."

The temperature trends tool compares the magnitude and direction of a temperature swing and inserts a user-defined phrase to describe such a trend. For example, for a large increase in temperatures between now and next Friday, the product could say something like "temperatures are increasing considerably by this weekend with a high in the low 70s on Friday night."

Summit said the new version contains dozens of smaller new features and improvements to the user experience as suggested by its user base.

Info: www.summittechgroup.com



Win-OMT Works for Your Enterprise

Win-OMT is an automation solution provider to the media and broadcast industry. Its products include Win-OMT iMediaTouch, a feature-rich automation system, and Win-OMT iMediaLogger.

The company also provides large-scale audio delivery systems used by DTH satellite services and cable music systems.

iMediaTouch Enterprise is its latest offering. With a customizable on-air user interface, the platform supports multiple screen layouts and can be used for live assist, unattended or satellite automation applications.

Features include drag-and-drop content insertion, audio import and editing, voice tracking and rain delay for sporting events.

Enterprise supports touchscreen monitors and provides a web portal and SoundExchange reports.

Info: https://imediatouch.com/

Parts and Service for Older Orban Products

"Our goal in forming Orban Legacy Parts and Service was to provide quality parts and service for all older classic Orban products where possible," says founder Jay Brentlinger.

"We have many 'new old' stock parts that go back to Bryant Street in San Francisco from the early 1970s."

In 1991 Orban relocated to San Leandro, Calif., and these parts were moved to the new location. "When I became the president of Orban in 2000, I was amazed with the amount of parts inventory and the total number of Orban products that had been built and were still in service worldwide," he said.

"Once again in 2006 we moved the Orban manufacturing to Tempe, Ariz., with yet another move to new building located in Scottsdale in 2009. And once again all of these older models parts were relocated."

Brentlinger said that with the 2016 sale of Orban, part of the agreement was that he would support older-model products.

"We shipped all of the older parts to our Autogram operations in Benton, Ark., where we are today. With over $3 million in parts here we provide parts and service to help maintain, preserve and service all the older Orban legacy products. And while we may not have some discontinued parts, we do have most everything needed to repair the older Orban AM/FM models."

The company accepts older Orban products as trade-in toward the purchase of new Orban Optimod models. It also maintains an Orban Legacy Museum, which contains the first Orban audio processors built, including original pre-production prototypes.

Info: www.orbanlegacy.com

Arcadia24 Enables Secure Web-Based Control

Burk Technology now offers the Arcadia24 Hosted Subscription Service. It is intended to make secure web-based remote control accessible to smaller groups and individual stations.

"Building on Burk's popular Arcadia system, Arcadia24 delivers remote facility control to station engineers and managers via their mobile devices," it said.

"Hosted by Burk Technology on AWS, each customer's Arcadia24 service is installed, configured and maintained by Burk remote control experts."

Web links from mobile devices to the Arcadia24 server are locked down and encrypted using Transport Layer Security (TLS), ensuring that only authorized users can access and control each remote facility. Encrypted VPN tunnels and firewall protection guard communications between Arcadia24 and each site.

Arcadia24 communicates with each site at its optimum rate, accommodating variations in communications speed and performance. "The most current data from all sites is then made available for instant display on authorized mobile devices," Burk says.

Users are authenticated via Microsoft AD LDS, with access restricted to specified channels, sites and station groups. Control of critical functions can be limited to key personnel while overall performance may be made visible to a wider group. Sites can be grouped based on regional hierarchy, engineering responsibility or other criteria.

Info: www.burk.com

NEW!

Stay on the air with PowerClamp!

The new HP200-1-TX is ideal for transmitter sites, and costs less too.

A whopping 200,000 surge-amp capacity prevents power spikes from damaging your new solid-state transmitter!

In stock.

Sine Control Technology Inc. Tel: 562-493-3589

https://henryeng.com/powerclamp

Audioarts DMX for Multi-Studio Facilities

"Go from an analog studio to an AoIP-routed studio in a snap with the Audioarts DMX console system," says Wheatstone. DMX has IP audio networking and mixing console all in one, with Ethernet switch included.

The console with mix engine is suitable for a multiple-studio facility where each studio can act independently as a separate standalone entity, but all are linked together through an IP network.

The DMX console is available in an eight- or 16-fader frame with four program busses and bus-minus on every fader, as well as a convenient multi-function knob on each channel for adjusting pan, mode, dynamics and input sources. The Audioarts mix engine uses RJ-45 connectors for audio, logic and network connections and is WheatNet-IP compatible. Pricing starts at just over $7,500.

Info: https://wheatstone.com

Economical Time Distribution From RAM

RAM Systems announced the introduction of its model CLK-100 to the broadcast market. It is designed to offer broadcast facilities an economical way to distribute accurate time and switching.

Balanced SMPTE serial time code is output on regular two-conductor shielded cable, with NTP output on an RJ-45 connector.

The local display uses large, bright digits viewable up to 25 feet. The display can be switched between 12- and 24-hour modes.

The CLK-100 is designed for installations where only digital time displays are needed. It is a desktop unit that also can be mounted onto a rack shelf.

Features include three Opto outputs, four form "C" relay outputs, GPS lock display, time and date display, and programmed date and time Relay/Opto switching.

The CLK-100 is 5-3/4 inches wide, 6-1/4 inches deep and 1-5/8 inches high. It has a sale price of $1,399.

Info: www.ram68.com

New AES/EBU Silence Detector From Broadcast Tools

Broadcast Tools' latest web-enabled AES/EBU digital audio silence detector, the AES Audio Sentinel 4 >> Web, is available now.

It features four AES/EBU inputs, each with silence detection, stereo phase monitoring and AES error detection. Alarm notification is available via front LED indicators, email, SNMP and open-collector alarm outputs for integration with external equipment. The stereo inputs may be configured to act as two separate mono channels, allowing the user to monitor up to a total of eight different mono digital audio sources.

The device's browser-based HTML5 web interface is powered by a high-performance ARM Cortex processor, which supports SSL/TLS email (Gmail, etc.), SMS-email notification, as well as SNMP. Silence detector trip level is configurable from the web interface for each audio channel in 1 dB steps from –15 dB to –35 dB. Precise alarm and restore time delays are configurable from 0 (OFF) to 65535 seconds (18 hours, 12 min and 15 secs) in one-second increments for input each channel.

Installation is easy, with XLR jacks used for the AES/EBU inputs and pluggable screw terminal block connectors used for the open collector outputs. A surge-protected universal switching desktop power supply with an IEC AC inlet is included.

Two units may be mounted on the optional rack shelf.

Info: https://broadcasttools.com

Customized Solutions From Marketron

Marketron says its Custom Solutions Desk provides customized solutions in sought-after channels to help advertisers get in front of their target audiences.

It is a suite of products that enables media sellers to expand cross-channel tactics to include niche digital partners in a turnkey solution. Sellers can expand an advertiser's reach and position themselves as a valued digital partner. Users receive hands-on support, publisher-direct reporting and campaign optimizations for advanced tactics.

New channels introduced include LinkedIn, Pinterest, YouTube and Snapchat.

Marketron NXT also has new channels. NXT is a platform for third-party digital and radio spots for media sellers. It consolidates traditional and digital media with an integrated ad platform, according to the company.

Users can create proposals, execute order entry, run campaign reports and streamline invoicing from one source.

Third-party digital tactics available include targeted digital display and video (with geofencing) and OTT/CTV. Newly introduced channels include SEM (search engine marketing), which Marketron says provides sellers a smarter way to sell paid search with a solution that does much of the work for them. Also new to the NXT lineup are expanded custom channels, encompassing many of the most popular social media sites.

NXT users also get access to the NXT Training Academy.

Info: www.marketron.com/custom-solutions-desk and /marketronnxt.

orban
LEGACY PARTS & SERVICE
501-650-8453
OrbanLegacy.com

ERI Precision Coaxial Directional Couplers

Electronics Reasearch Inc. has a new family of precision directional couplers.

The coaxial directional couplers are available for 1-5/8-inch, 3-1/8-inch, 4-1/16-inch and 6-1/8-inch coaxial transmission lines with one, two, three or four sampling ports. The standard sampling port connections are Type N or SMA.

"The line sections are constructed to securely position and hold the inner conductor to ensure the coupler remains stable and calibrated through shipment and installation," the company tells us.

"These directional couplers are constructed with rugged aluminum outer conductors and are very compact, allowing them to be mounted in congested locations."

The couplers have an operating frequency range from 54 MHz to 800 MHz and can be set for coupling levels from –30 dB to –70 dB with directivity of 30 dB or better.

ERI also makes adjustable coaxial directional couplers and produces waveguide directional couplers for all line sizes used for terrestrial broadcast applications.

Info: https://eriinc.com

The Latest AudioVault From Broadcast Electronics

BE describes the new AudioVault 11 as "the most progressive version our automation system to date."

AudioVault is enhanced with several features, and BE says it now has the scalability to manage the smallest stations to the largest corporate broadcasters.

"Our team recognized the challenges many of our users faced as our society shifted to remote positions. As a result, we have developed specific features to meet these needs," BE stated.

Among new features, AudioVault Anywhere schedules and controls a station from any place, anytime, via a browser on any device.

AudioVault Enterprise Radio Automation controls any part of an audio delivery network from any place.

CloudVault distributes and synchronizes your audio assets via the cloud to all your locations as needed.

And AudioVault now offers full integration with BE's music and traffic system partners.

AudioVault 11 is available for a single workstation software package of $4,000.

The company's Digital Service Team is based in Quincy, Ill., with 24/7 availability.

Info: www.bdcast.com

The Mini Audio Codec Server by Ferncast

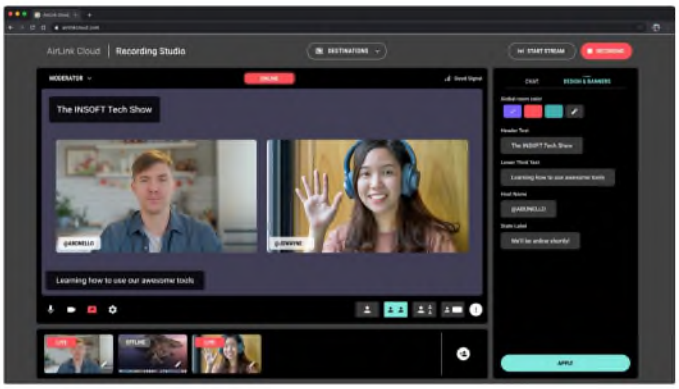
In July Ferncast launched the Mini Audio Codec Server, which is powered by aixtream Compact software. The company says applications include STLs, SIP communication, OTT online streaming, audio on demand, DVB multiplexing, loudness control and transcoding.

"The Mini Audio Codec Server is the most optimal combination of small size and power," Ferncast says. "It is handy with a small size and low power consumption. It is in fact small enough to be easily transported and installed anywhere, but still allows up to 10 mono, stereo or multichannel programs."

It natively supports AES67 and Ravenna as well as third-party USB audio interfaces so it can handle any input/output requirement. The multiple USB ports can be used to connect various other devices to expand how it can be used, for example by connecting diagnosis devices or expanded storage for recording use cases.

The Mini is part of a new product class of Audio Codec Servers, or ACS. The company says they combine the flexibility and scalability of server installation with the convenience of traditional hardware boxes.

Info: www.ferncast.com



AirLink Heads to the Cloud

InSoft has a new virtual studio offering called AirLink Cloud that lets you record a video podcast in HD to the cloud, invite multiple remote guests and stream live over social media.

A starter plan is free, with Lite and Pro versions available for $25 and $39 per month on an annual contract, according to its website.

The paid versions include AI-based automated video switching, your logo, overlays and customized backgrounds, as well as more recording and storage time. The pro version has 15 hours of cloud-based, multi-camera recording and 10 hours of cloud storage.

According to distributor BSW, AirLink Cloud Pro uses broadcast-quality bidirectional audio codecs and handles mix-minus feeds to each participant. It also feeds on-air host video to each participant to support on-air interactions.

InSoft is familiar to many in radio for its HDVMixer product.

Info: www.airlinkcloud.com

MaxxKonnect Adapts to Solve Studio Problems

The MaxxKonnect Group, based in Pelham, Ala., has launched a line of problem-solving adapters called MaxxAdapt.

"These handy, cost-effective devices will save you time and headaches for various audio and logic installations," it states.

The MK XD/SH-4 adapter breaks out the DB-9 AES outputs on the XDS-PRO series satellite receivers into four StudioHub-compatible RJ-45 jacks. Each passive output jack has a removable ground jumper, and the entire board is no wider than the DB-9 jack. Top-mounted connectors keep cables out of the way. A two-output version is also available.

The MK XD-ANA adapter is useful to adapt the analog DB-9 outputs on the XDS series satellite receivers to StudioHub-compatible RJ-45 jacks. These passive adapters have removable ground jumpers for both the RJ-45 connector, as well as the DB-9 to help isolate ground loops.

Additional versions will be released soon, including an XDS relay adapter. All versions include removable mounting screws.

Info: www.maxxkonnect.com

NM-250 MKII - Newsroom Mixer

Features:

-Built In Talkback System with 2 Send and Receives
-1 Unbalanced Input /Output for computer Sound Card
-1 Unbalanced Stereo Front Panel Jack Input
-1 Balanced Mono Line Input for Telephone Hybrid
-2 Balanced +4 dBM Stereo Line Inputs
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