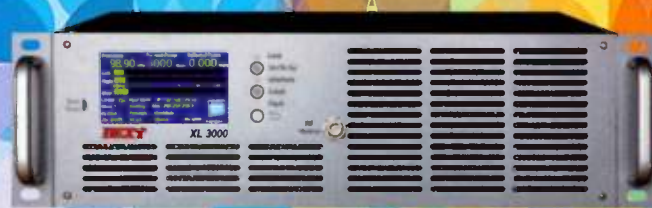


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2023 Fall Product Planner



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AUGUST 2023

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I Trust ViA for Sports Remotes



“

Setup is simple and the user interface is very intuitive. The sonic quality and network stability makes the ViA perfectly suited for critical broadcasts

Dan Israel, Executive Producer & Co-host, Chiefs Radio Network

Dan Israel broadcasts to more than 100 affiliates with the ViA codec.

Why do major sports broadcasters around the world select the Tieline ViA as their remote codec of choice?

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2023 Fall Product Planner



**Paul
McLane**
Editor in Chief

In 2023, product introductions by our industry's leading tech companies reflect the dynamically changing landscape of broadcast infrastructure.

Various past eras were characterized by innovations such as the introduction of transmitter remote controls, the debut of hard disks and personal computers in radio air chains, and the development of audio processors meant to win loudness wars.

I suspect we'll look back on the early 21st century and remember it for the cloud, SaaS and generational AI. You'll find products to navigate those trends. But familiar equipment types like transmitters, codecs and automation systems also continue to evolve, getting more powerful, efficient and user-friendly.

We invited manufacturers from around the world of radio to share their recent introductions or tell us about new ones. Their responses follow.

A version of this supplement also appeared in ebook form at radioworld.com/ebooks. As always please let me know how Radio World can serve you better. Email me at radioworld@futurenet.com.

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GV2 Transmitters Integrate HD Radio Functions

"The GV2 transmitter is the first in the industry to integrate all HD Radio components inside the transmitter," Nautel states.

"The GV2 supports HD Radio with Xperi Gen4 Importer, Exporter and Engine implementations for HD Radio encoding, station logo and Artist Experience, and is the first solution that locks FM and HD signals synchronously to eliminate HD FM blend drift. Omnia for Nautel covers all FM and HD Radio audio processing needs and provides Livewire AoIP inputs for all audio streams. No additional hardware is required."

Another innovation is an air-chain selector that allows the GV2 to select one of many air-chain inputs (FM and all HD) and change from one feed to another, no matter whether the feed originates from the studio, the cloud or the internal platform.

FM/HD1 time alignment is assured through the blend lock function without the need of GPS antenna connections. All components can optionally be activated to suit each station's specific needs.

The GV2 line features new power supplies, solid-state storage, a new interface card and dramatic increases in internal computational capacity. A new version of the Nautel Advanced User Interface based



on HTML5 enables the integration of new software components through virtualization technology.

Nautel says the transmitter is suitable for any broadcaster looking for a simpler way to deploy HD Radio or create an upgrade path for later.

Nautel staff are shown at the NAB Show celebrating a Best of Show Award from Radio World.

Info: www.nautel.com/gv2

4



ERI Expands Its RF Support Line

Electronics Research is out with a new series of motorized coaxial RF switches for VHF and UHF applications. It also unveiled a new motorized switch controller.

The four models include the 1-5/8-inch Model CS203C switch, the Model CS350C for 3-1/8-inch requirements, the 4-1/16-inch Model CS400C (shown at right) and the Model CS600C for 6-1/8-inch applications.



"These coaxial switches are broadband and suitable for DC to 608 MHz applications and do not need to be tuned to a specific channel," the company says.

"The coaxial port configuration is a coplanar design that minimizes the elbows required in most installation configurations. The control interface and interlock connections are made with CAT5 or CAT6 cables and RJ45 connectors."

In addition, ERI has updated the CS250C, CS350C, CS450C and CS650C VHF (DC to 274 MHz) coaxial switches and the Model CS252C, CS352 and CS452 UHF (any single 6, 7 or 8 MHz TV channel from 470 to 698 MHz) coaxial switches with new drive motor assemblies and control circuitry.

The EC130 motorized switch controller, shown above left, is designed to control one or two motorized switches and includes an SNMP interface.

"Adding an optional ERI Model VDM303 RF Power Detector, the EC130 will detect the presence of RF applied to the switch and prevent accidental switch activation while under power. The control interface and interlock connections are made with Cat-5 or Cat-6 cables with RJ45 connectors."

Info: eriinc.com

ENCO Incorporates AI Tools

ENCO is integrating ChatGPT-inspired solutions into its product family. It recently announced AITrack and ENCO-GPT, using the ChatGPT model to generate language responses from text-based queries added to automated TV and radio production work.

President Ken Frommert said in the announcement, "AI can be thoughtfully integrated into products like AITrack and ENCO-GPT that solve problems and create new opportunities for broadcasters today. It is quick to rollout, free of labor-intensive integrations and fully functional for automated broadcast production workflows."

AITrack integrates with ENCO's DAD automation to generate and insert voice tracks between songs. The company said that might include identifying the song and artist of the previous song, introducing upcoming songs, communicating station IDs, or providing localized news and weather. Users can adjust the length of each

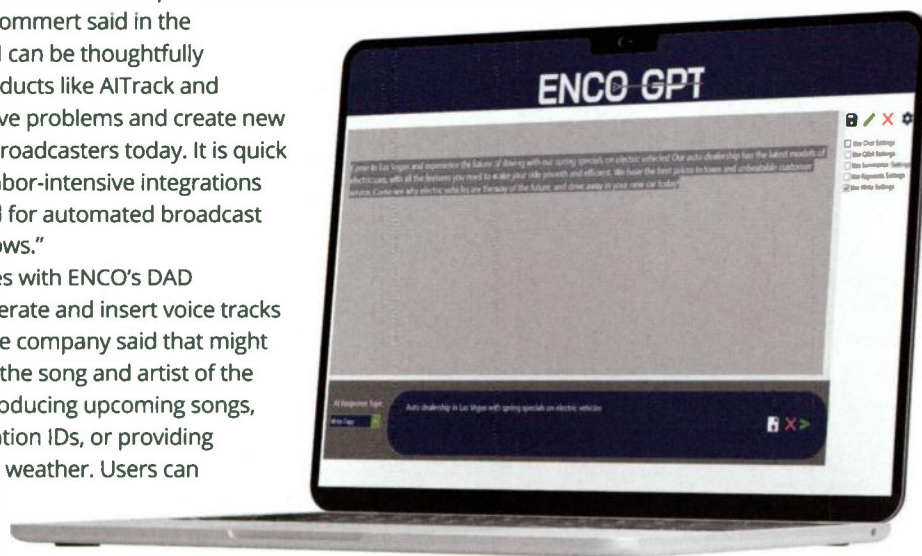
automated voice track, and AITrack uses Chat-GPT and synthetic voice engines to produce natural-sounding content between songs.

Meanwhile ENCO-GPT simplifies copy creation for TV and radio

broadcasts and program streams. It automatically creates ad copy on behalf of sponsors, and it can ingest text from the producer, for example with details on a special sale, with immediate turnaround of synthetic speech ready to air.

The tool can also be used to summarize news stories to fit a run time in a broadcast schedule; the application will condense a lengthy written article into a few sentences, or inject breaking news updates in live ad breaks.

Info: www.enco.com



Wheatstone Introduces Layers Streaming on AWS

In addition to on-prem servers, Wheatstone's new Layers Stream software can now run on Amazon Web Services.

Layers Stream features stream provisioning, audio processing and metadata software running on an on-prem server or public cloud with easy setup and control through a browser interface.

Included are audio processing designed for streaming applications and Lua transformation filters to convert metadata input from any automation system into any required output format, including Triton Digital, for transmission to a CDN server.

Layers is part of the WheatNet IP audio network environment that includes mixing, editing, scripting, virtualization, and intelligent AoIP. Wheatstone says these integrate to create "less work, more flow inside and outside the broadcast studio."

The WheatNet IP audio network has some 200 interconnected studio elements and software apps. In addition to Layers Stream, the Layers Software Suite features a Layers FM software module and Layers Mix software module for the on-prem server or regional data center, making it possible to replace racks of processors, desktops and mix engines and/or extend studio failover redundancy across multiple data centers.

Info: www.wheatstone.com



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LIVE, LOCAL, AND POWERED BY AI

AI that engages audiences:
from air shifts to podcasts
to spots to weather

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by FUTURI

Take the pain out
of podcasting

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This is the time to innovate

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Turn your station into
a dynamic experience
for your listeners

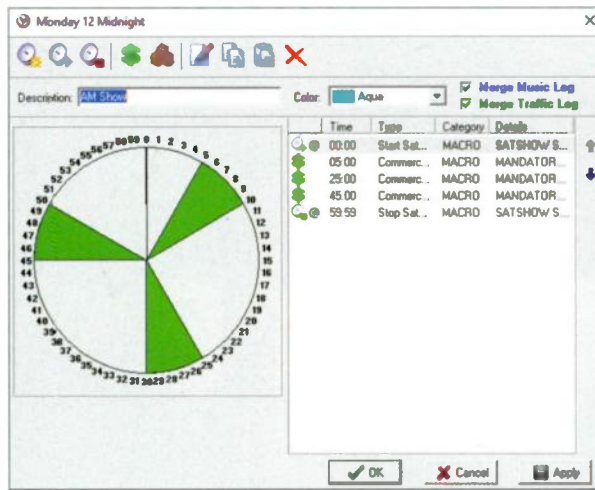
. This is the time for Futuri.

.com/Radio

File Edit About

NUM1 - Station #1

	Mon	Tue	Wed	Thu	Fri	Sat
Midnight	AM Show	AM Show	AM Show	AM Show	AM Show	
1 am	AM Show	AM Show	AM Show	AM Show	AM Show	
2 am	AM Show	AM Show	AM Show	AM Show	AM Show	
3 am	AM Show	AM Show	AM Show	AM Show	AM Show	
4 am	AM Show	AM Show	AM Show	AM Show	AM Show	
5 am	AM Show	AM Show	AM Show	AM Show	AM Show	
6 am	AM Show	AM Show	AM Show	AM Show	AM Show	
7 am	AM Show	AM Show	AM Show	AM Show	AM Show	
8 am						
9 am						
10 am						
11 am						
Noon						
1 pm	PM Show	PM Show	PM Show	PM Show	PM Show	
2 pm	PM Show	PM Show	PM Show	PM Show	PM Show	
3 pm	PM Show	PM Show	PM Show	PM Show	PM Show	
4 pm	PM Show	PM Show	PM Show	PM Show	PM Show	
5 pm	PM Show	PM Show	PM Show	PM Show	PM Show	
6 pm	PM Show	PM Show	PM Show	PM Show	PM Show	
7 pm	PM Show	PM Show	PM Show	PM Show	PM Show	
8 pm						
9 pm						



multi-station cluster setups.

OpX includes a Clock Builder module to manage satellite programming. This provides the ability to rebroadcast satellite-originated shows. These shows include signals (closures) to tell automation systems such as OpX when the show starts and stops, and when to play IDs, liners and breaks.

"Not only does the Clock Builder offer a visually familiar method of configuration, but it also offers an intuitive and quick method to add or modify shows, schedule satellite breaks, and more in a visual, easy-to-understand way," the company says.

Clocks created in Clock Builder integrate with a user's imported logs. You can schedule each hour of the day to help take some of the load off the traffic department and scheduling. The Clock Builder allows handling of multiple types of formats, from music-from-hard-drive stations to full-time satellite stations without requiring the user to memorize or look up commands to enter. The result is simplified setup and modification of a station's format.

Info: www.bsiusa.com

Manage Satellite Feeds With OpX Clock Builder

OpX automation from Broadcast Software International is composed of separate modules. Modules can run on one computer for single-station installations, or on separate computers for redundancy and



WorldCast Expands Ecreso AiO Series

WorldCast Systems has expanded its Ecreso AiO FM transmitter family. Models are now available at 100, 300 and 600 Watts as well as 1 kW.

In addition to the existing backup feature on an offline SD card, the company has added an online audio backup, which supports Icecast and Shoutcast.

"This means broadcasters can reuse an existing radio broadcast channel to enable the redundancy of its audio program," it said. "They can play an audio file which is saved on the SD card, or they can recover an Icecast/Shoutcast stream and continue to broadcast the program live from a web radio source."

The transmitters occupy two rack units and deliver up to 76% efficiency. "When the patented SmartFM technology is activated, they

can further reduce their energy consumption by up to 40%."

The AiO 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." The transmitters also include a 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. "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."

Ecreso transmitters carry a 10-year warranty.

Info: www.worldcastsystems.com

Big or small, hardware or software, there's a Telos VX phone system for you.

Since their introduction, Telos VX Broadcast VoIP Phone Systems have been the industry benchmark when it comes to call quality, features, and flexibility. The hardware-based Telos VX Enterprise is purpose-built for medium to large facilities, offering an expandable capacity of up to 120 channels. Telos VX Prime+ offers the same quality and features as VX Enterprise, but its fixed 8-channel configuration makes it ideal for smaller facilities with fewer studios. Telos VXs combines all the goodness of the VX platform and introduces the benefits of virtualization on-premises or in the cloud.

**Need help figuring out
which VX is right for you?**

**Contact us -
we're here to help.**

Telos VX® Enterprise



The first (and finest)
broadcast VoIP phone system.
for medium to large facilities.

Telos VX® Prime+



Looking for legendary Telos audio
quality on a smaller scale?
Here's your prime candidate.

Telos VXs



Everything you love about the
Telos VX broadcast phone system,
delivered virtually.



BROADCAST WITHOUT LIMITS

TelosAlliance.com/TelosVX



Mike Alert Supports M!ka Control

Henry Engineering's Mike Alert facilitates controlling and interfacing the two-color tally lights used on M!ka microphone support arms made by Yellowtec.

"These popular mic arms have two tally lights that are visible to the user," Henry notes. "One light is white, the other is red. In many installations, the white light is used to indicate a 'ready' condition, e.g., the mic has been assigned to a console channel. The red light is used conventionally, to indicate 'on air' or that the mic is live."

Henry notes that the M!ka arm uses a five-conductor cable, often terminated to a five-pin male XLR connector. Three wires are used for mic audio, and the two remaining wires are used for both the white and red tally lights.

"The two LED tally lights are wired with opposing polarity, so that reversing the polarity of the control voltage determines which light,

white or red, will be on. This often causes interface headaches, since console Tally outputs don't provide any means of polarity reversal."

Mike Alert provides the power and control circuitry to interface the mic arm to the Tally outputs of any console, router or other equipment. Both the microphone audio and tally circuits are interfaced, with automatic polarity control to correctly operate the white and red tally indicators.

There are two independent GPI control inputs: one to activate the White tally LEDs and another one to activate the Red LEDs.

Henry says Mike Alert is compatible with any console or equipment that provides a GPI contact closure, open collector, logic or DC voltage for Tally light control. Each unit can control two mic arms. Price: \$325.

Info: www.henryeng.com

10



DJB Radio Spider & Logger Get an Update

DJB Radio Software kicked off its release season with an overhaul of the DJB Radio Spider and its stablemate DJB Radio Logger.

"The HTML client for both products has been combined into a single interface with increased programming flexibility and security measures

to keep up with market demands for remote access and, above all, peace of mind," the company says.

A tool for automated content retrieval, Radio Spider 4 is updated with new protocols for Dropbox, Google Drive and other popular FTP and cloud storage solutions.

"Along with e-mail alerts for failed or completed downloads, auto retry and the ability to format your audio for ingest into any automation system, Radio Spider 4 can now scan your remote storage for new content by-the-minute for immediate transfer."

DJB Radio Logger 4, shown at right, lets the user log, skim or schedule recordings from any local audio source, AoIP driver or URL, but now you can also log and search streaming metadata.

"Connect Logger to serial or custom logic interfaces for WNIP, Livewire or SAS for full start/stop control. Email alerting per-channel gives you silence detection as well as URL loss notifications. Allow secure HTML access to each channel for

competition monitoring or easy airchecks."

DJB Radio Logger starts at \$295, Spider at \$395 and automation packages at \$1,295.

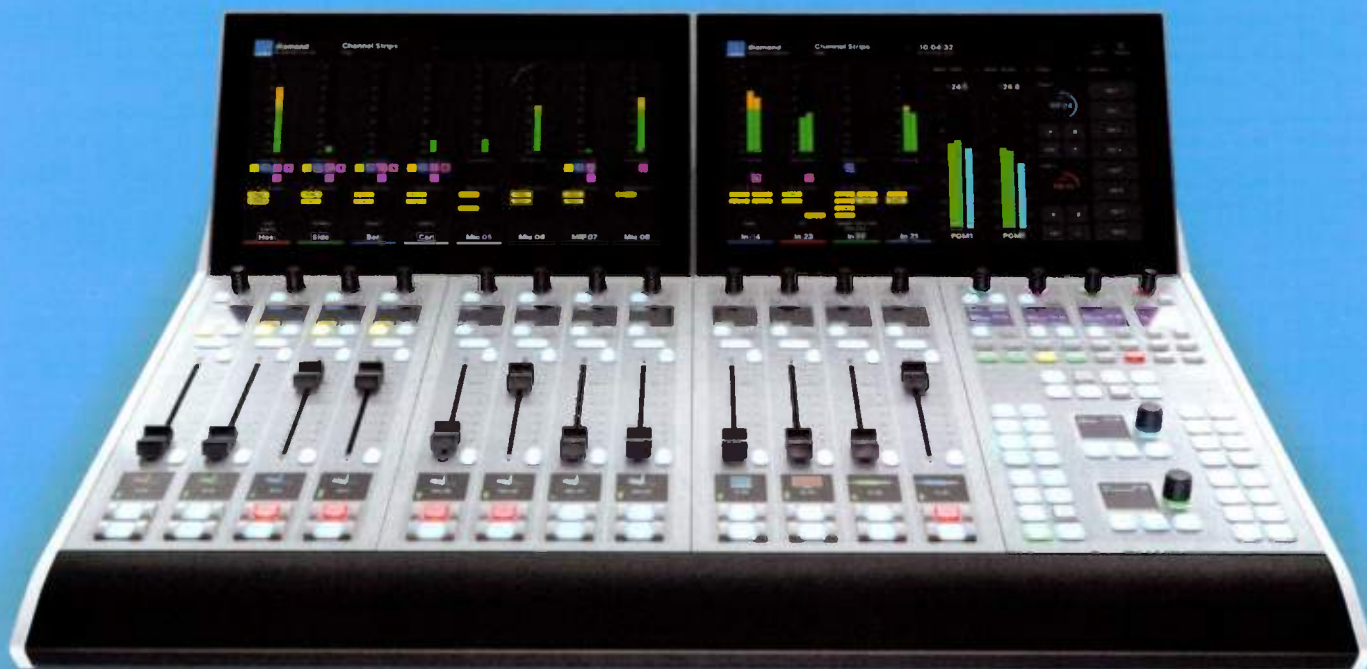
Info: djbradio.com



See you at IBC 8.B90 | NAB NY 617



+ WORKFLOW
- FOOTPRINT



NEW

Power Core^{Rev3}

HIGH-DENSITY I/O, MIXING, PROCESSING & ROUTING ENGINE

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diamond

MODULAR BROADCAST CONSOLE

2 to 60 faders | Native IP | Customizable workflows



MAX License
Up to 4 consoles per Power Core

lives @ **HOME**



Digital Alert Systems Develops a HALO

HALO software helps broadcasters understand the operational readiness of their EAS infrastructure, centralize its management and aggregate FCC compliance logs.

Digital Alert Systems notes that many station groups have dozens, if not hundreds, of encoders and decoders across regions and time zones. "An ever-decreasing number of people are looking after that essential equipment to ensure it is operating correctly. FCC fines for inoperable equipment can be substantial and come right off the bottom line."

HALO stands for Homogenous Alert Overseer. The software tool supports hybrid virtualization for stations and MPVD operators deploying DASDEC/One-Net devices at the network's edge to capture EAS/CAP alerts.

"HALO communicates over a network with properly configured EAS/CAP systems deployed throughout a customer's operational



areas. The EAS devices communicate a Healthbeat to the central HALO system, comprising detailed information on crucial configuration values. If these parameters are outside the set values,

HALO displays warnings on the user screen to highlight potential issues before they become a real problem."

HALO simplifies compliance with the FCC's Electronic Test Reporting System. Test result information across all configured stations is available within minutes of receiving the test. "No more having to contact each station asking for reports or sending logs to be culled and summarized. HALO can quickly output a

text, Excel or PDF file and send the information to a printer."

Access can be shared among engineers, technicians and management so compliance teams can see what alerts are being received within each local community.

Info: www.digitalalertsystems.com

SpotOn Applies AI to Spot Creation

Futuri Media made ripples and waves with its rollout of RadioGPT. Now it is promoting an audio production system that generates commercials and spec spots using artificial intelligence.

"SpotOn optimizes AI to instantly generate effective, standout creative to vastly improve operational efficiencies and help close more business," it said in the press release.

It can also generate spot tags and station liners.

Users select a voiceover talent from a library of clones or synthetic voices in dozens of languages. SpotOn includes a music library to help users find the right tone and tempo.

"Each spot is meticulously structured and scripted to hit the right points and make a brand's message resonate." The company says the spots can run as-is or be used as a "first draft" for radio producers to work from. Futuri says account execs can also use the tool to create spec spots while sitting with the client.

Info and audio samples: futurimedia.com/SpotOn/



Altus Moves the Console Out of the Studio

Telos Alliance says that its new Axia Altus virtual mixing console brings the power and features of a traditional surface to any computer, tablet or smartphone.

"Full-function mixing — including eight virtual auxiliary mixers and integration with Telos VX broadcast phone systems — allows distributed and remote workforces to collaborate on recorded or live programs, including contribution audio and monitoring through WebRTC."

Altus is suitable for any situation where fast deployment is necessary, such as setting up a temporary studio, building a low-cost disaster recovery center or quickly launching a remote broadcast.

Altus encompasses the benefits of virtualization including scalability, security and flexibility, whether installed on-premises on standard COTS (Commercial Off the Shelf) hardware or cloud-hosted.

Altus received a Radio World "Best of Show" Award at the spring NAB Show.

Info: www.telosalliance.com



Introducing **GV²**

Enhanced **GV** Series Transmitters

Digital/Analog 3.5 kW – 80 kW FM

- New IQ interface card
- New HTML AUI
- Embedded compute engine with 10X more processing power
- Optimized power supplies
- Solid state storage
- Virtualization Engine

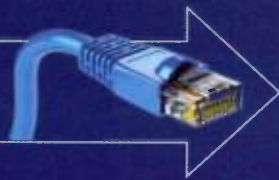
Optional

- Software-based air chain support
- Omnia for Nautel FM and HD audio processing
- Blend-Lock FM/HD Synchronization
- Gen4 vExgine modulator
- Gen4 vPorter: importer and exporter
- Air Chain Selector



JUST ADD AUDIO

AUDIO IN



RF Out



Everything Else Is Inside

HD Radio
Digital AM & FM





Inovonics Expands SiteStreamer Family

Inovonics is growing its line of problem-solvers for remote monitoring of off-air transmissions.

"How do you know what you don't know?" the company asks. So the SiteStreamer family of remote monitor-receivers is intended for radio broadcasters who want to know if their off-air transmissions are broadcasting correctly.

"Inovonics SiteStreamers are web-enabled receivers installed at the transmitter site for remote signal monitoring, allowing broadcasters to remotely tune in and listen to a live off-air stream," it says. "Alarms and notifications can be set up for email and SMS advisories."

They are available in many flavors such as FM, AM and HD Radio.

Now Inovonics has added the Model 563 for digital DAB+ transmissions. "The Sofia is like a super SiteStreamer with more horsepower and features for critical monitoring situations," it says.

Features include display of graphics and related text data on a web interface. Output levels are adjustable for LR Analog, AES3-digital and Dante/AES67 AoIP. Up to 10 listeners at once can listen on internet streams. Multiple transmissions can be monitored sequentially with StationRotation. Alarms and notifications can be sent via email or SMS messaging.

Info: www.inovonicsbroadcast.com

14

RCS Highlights Disaster Recovery

Disaster Recovery is a feature of the RCS Zetta automation/playout platform in which a station's content is automatically uploaded to the cloud but ready at a moment's notice for playback.

"From natural disasters to viruses taking down IT infrastructure, whatever the emergency, RCS Disaster Recovery is a high-tech, cutting-edge safety net that gets broadcasters back on-air, easily, efficiently and quickly," it says.

The cloud-based tool backs up all audio, schedules and metadata in a matter of minutes. After an outage, when the station is ready to return to its normal live output, RCS Disaster Recovery rapidly restores the original data.

Features include secure two-factor VPN-less remote access for control, contribution and playout from the cloud in the event of a terrestrial system or infrastructure failure.



The company also now offers Zetta2GO, which provides control of a Zetta system from any browser. The user can see their Logs, Hot Keys and the Segue/Voice Track Editor and produce sophisticated remote broadcasts.

Info: rcsworks.com

Arrakis Adds Bluetooth to MARC

Arrakis was the first to introduce a Bluetooth module, doing so 10 years ago in its ARC Series broadcast radio consoles. Now it offers one for the MARC series.

The MARC is modular, allowing a user to configure the board as needed. The six available modules are Microphone, with A/B inputs; Stereo Line, with A/B inputs; USB, to connect to a Windows or Mac PC; Phone, of which up to two can be used; Studio Monitor, to talk between the control room and another studio; and the new Bluetooth module.

Bluetooth-enabled consoles can be paired to any Bluetooth-enabled device such as a cell phone, audio player or recorder editor, Arrakis says. "Just pair your cell phone to the console, and answer your incoming calls with the built-in 'Call' button on the board. You may then end the call with the 'Drop' button, just like a standard Bluetooth phone hybrid. The



caller receives the console bus mix ('minus' the caller audio) so there is no feedback."

You can take calls on the audition bus, where you can record the call for later playback, or send it to the program out to play over the air.

The module can be retrofitted into existing boards as well.

Info: www.arrakis-systems.com

Arcadia Provides Scalable Remote Site Access

Engineers and managers can monitor and control all their sites from a NOC or from the field over a single secure web link using the Burk Arcadia system.

"Authorized users simply launch a browser window on a smartphone, tablet or PC to confirm the status of their entire network and to initiate commands to keep their stations on the air," Burk says.

Arcadia provides summary data at national, regional or market levels, with the ability to drill down for detailed status and control of individual sites.

Burk offers the example of Relevant Radio, which uses Arcadia to bring all of its remote control into one place and has been growing its network operations center. Andy Disterhaft, senior director of station engineering/operations, is shown with a rack that contains a Burk ARC Plus Touch remote control system. He's holding his smartphone



displaying an Arcadia Matrix View.

Relevant Radio is a Catholic network of more than 200 owned-and-operated and affiliate stations in the United States, plus a worldwide streaming presence and mobile app.

"Each user gets their own username and password to access the system. This allows each user or group to be given different privileges," Disterhaft said. "If a staffing change occurs, it's as simple as changing one user on the Arcadia server, rather than potentially having to change every site's username and password."

The mobile interface lets Relevant Radio create critical views for groups of sites or individual stations. These present the most important monitoring and control channels for each site in a graphical format for use on phones and tablets.

"Another great benefit is using the Arcadia NOC software to connect our Network Operations Center to all sites through a single server. ... With the

Arcadia NOC software, all those connections are sent on a single data stream from the Arcadia server, putting the load on the server to do most of the work."

Info: www.burk.com



A new scheduler allows complex program and content distribution tasks to be managed seamlessly and in an intuitive and straightforward manner.

"AudioVault Anywhere delivers powerful control and simplified operations at your fingertips all from any connected device wherever and whenever you need it," BE says. It is suitable for remote voice tracking, playlist and program management, file playback, remote broadcast, sports and remote talent.

Meanwhile CloudVault enables cloud-based shared and redundant content storage to deliver greater efficiency and disaster recovery using a reliable, scalable and secure Microsoft Azure platform. "Leverage content on

a shared offsite platform across your cluster, group or around the globe using the proven and reliable Azure solutions."

AV11 provides integration with Adobe Audition digital audio editing software. Users can streamline production with powerful metadata tools to load audio into AudioVault directly from Audition, eliminating tedious data entry.

And enhanced AWatchDog provides an extra set of eyes and ears to monitor and track a range of schedules and playlists days in advance to ensure that everything is in place. If something is missing, it will notify you so you can make corrective action.

Info: www.elenosgroup.com

AudioVault 11 From BE Is Now Shipping

Broadcast Electronics recently rolled out AudioVault 11, its next-generation media management and playout solution.

"AudioVault 11 allows broadcasters to seamlessly create, manage and deliver programming with nearly 100 new capabilities including advanced scheduling, cloud-based shared storage, and simplified remote access and operation," the company states.

PayNow Helps Broadcasters Get Paid Faster

The PayNow platform from Marketron accelerates and streamlines electronic payments.

Marketron says PayNow integrates with traffic systems, automates processes, uses flat fees for processing charges and is convenient for advertisers.

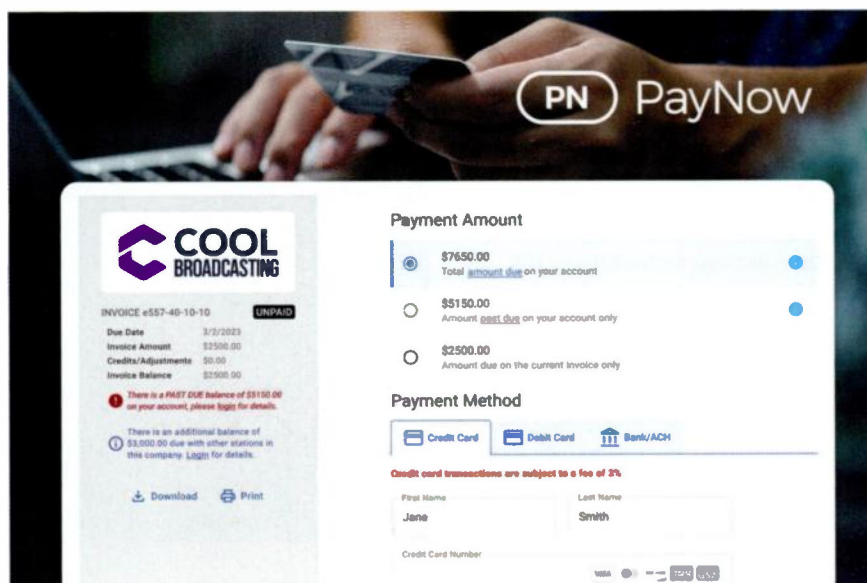
"PayNow has added guest checkout features, allowing advertisers to make payments quickly and securely on invoices and statements in just a few clicks."

The platform can modernize and optimize electronic payments and reduce costs associated with printing and mailing paper invoices. This can reduce days outstanding decrease by up to 32 days.

Marketron also highlights its NXT system as a scalable solution for selling more integrated advertising. "NXT's intuitive, self-serve platform has all the tools your team needs to build winning campaign

proposals, execute orders, generate invoices and deliver performance that drives renewals."

Info: www.marketron.com



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New Tieline Codecs Deliver MPX STLs

Tieline's new MPX I and MPX II codecs deliver composite FM multiplex codec solutions for real-time network distribution of FM-MPX or MicroMPX (μ MPX) signals to transmitter sites.

"The MPX I is ideal for transmitting a composite STL signal from a single station with return monitoring, whereas the Tieline MPX II can transport two discrete composite FM-MPX signals from the studio to transmitters with return monitoring," the company says.

Both units support analog MPX on BNC, MPX over AES192, and multipoint signal distribution, to deliver a range of flexible composite encoder and decoder solutions for various applications.

The MPX I and MPX II support sending the full uncompressed FM signal, or high-quality compressed μ MPX at much lower bit-rates. An optional satellite tuner card with MPEG-TS and MPE support can receive DVB-S or DVB-S2 signals.

Charlie Gawley, VP Sales APAC & EMEA, said, "By supporting both analog and digital composite MPX signals, broadcasters can transition from analog to digital excitors over time and maximize the value of their MPX investment."



Sending transmission-ready FM composite signals from the studio allows broadcasters to maintain audio processing and RDS data insertion at the studio. This reduces capital and operational costs by eliminating processing equipment from transmitter sites, which reduces on-site power consumption, wiring and site visits.

Composite MPX over IP signals can be replicated and distributed using multicast and multi-unicast technologies and take advantage of redundancy features like redundant streaming, RIST, FEC and automated SD card file failover.

Info: tieline.com

18

M!ka Hush Enables Intuitive On-Air Signaling

New from Yellowtec is hush, a plug-and-play solution for the company's m!ka family.

"Hush on-air controls now provide comfortable ways to handle your signaling," the company says. "They are designed to fit Yellowtec's famous m!ka mic arms with on-air indicator.

There is no need for self-made solutions or compromises anymore."

Two versions are available. Hush offers control over a m!ka mic arm's LED signaling, while the hush+

version adds high-end mic preamp settings.

"Hush+ provides you with advanced mic preamp and control functions for your mic signal. A lot of microphones have a low sensitivity and need a preamp in front of their mixer. Hush+ allows you to set up to incredible 75 dB gain as high-end preamp. With -129dB input referred noise, it stands out."

A hush device can be controlled via Yellowtec's hush Remote, GPIs, USB-HID, USB-MIDI or external MIDI-interface.

Via GPIs, any standard open collector output of a mixer can be connected. Via MIDI, hush gives you control over signaling via DAW. "For example, directly turn on your on-air indicator whenever you press record within your DAW software." For USB-HID mode, libraries are available to support writing your own software tools.

M!ka and Yellowtec's litt signaling device can both be controlled via GPO.

Info: www.yellowtec.com



Radio.Cloud Provides “Voicetrack.ai”

“Our idea is to give stations a feature that supports hosts by using applied AI driven voice tracking to increase station efficiency and capabilities.”

So says Radio.Cloud, describing the Voicetrack.ai platform, which is part of Radio.Cloud software.

It envisions this tool as an enhancer for hosts that will make stations more flexible. It can continue to push local content even when no people are physically at the station or on air.

“Stations can now fill dayparts that previously just played music and sweepers. For example, in nights and overnights, hosts and program directors can work ahead and turn what some see as a lost daypart into appointment listening with custom local content.”

With every voice track, stations can select an AI-generated voice along with a duration and daypart for the talk break. Then hosts select content topics like frontsell/backsell, station ID, weather, etc.

“Rather than simply asking ChatGPT to create a script, we’ve trained the technology with thousands of challenges and complex prompts. Because of this prompt engineering, ChatGPT perfectly generates a voice track for your specific station.”



In seconds an editable script appears at the bottom of the screen. After customizing it, you can preview the AI voice track. “You even have the ability to set the voice track on the ramp/intro of the upcoming song, something Radio.Cloud does automatically whether it’s an AI voice track or a pre-produced human voice track.”

In July 2023, the technology helped Antenne Deutschland launch Europe’s first 24/7 AI-driven radio station called Absolut Radio AI.

Info: www.radio.cloud



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AEQ Launches New AoIP Codecs

Venus 4 from AEQ is a dual full-duplex stereo IP audio codec with local analog, digital and AoIP Dante connectivity.

"This new dual stationary audio codec for point-to-point links stands out for having IP connectivity and two simultaneous bidirectional stereo transmissions with different formats and qualities," the company says.

"It also features SIP protocol and EBU N/ACIP standard, as well as Opus algorithms, configuration support and remote control tools."

Venus 4 is available in two hardware versions, one with a front control and a basic version with network and communications status indicators. Both have balanced analog I/O on XLR connectors and dedicated AES/EBU digital I/O connectors, triple network port, dual RS-232 auxiliary data link and redundant power supply. The codecs are available with 48 volt DC power supplies and optional Dante/AES-67 IP

local audio inputs and outputs.

The codecs can be controlled via the Phoenix Control app; there's a user-friendly graphical window for configuration and another for operation that allows AEQ to work with it remotely.

Also new is Smarttalk, a service that generates a link to a website on the user's PC or smartphone, to download an Opus a codec from the cloud. Through a SIP server, it then automatically connects to a studio's AEQ codec.

"This app allows a simple connection between talents, from their PC, tablet or mobile phone, without the need for an audio codec. No need to install any application or enter a user name and password, just a direct web link." Audio is sent bidirectionally in high-quality, low-delay stereo format with Opus encoding. It's available by subscription.

Info: aeqbroadcast.com

20

Angry Audio Gets SMOOTH

Angry Audio is shipping the latest addition to its Chameleon line of audio processors, the SMOOTH microphone processor.

"Unique in its approach, SMOOTH is designed specifically and exclusively for the Shure SM Series microphones," the company says.

"Previous microphone processors required some effort to get them matched to the mic. The SMOOTH is dialed in right out of the box to sound amazing with some of the most popular microphones on the market."

The company notes that the SM Series dynamic microphone has millions of fans. "Many of them benefit from a little compression, maybe some gating to quiet background noise, a little EQ, even some sibilance control. SMOOTH delivers with a minimum of tweaking so they can concentrate on the message."

The processor uses advanced DSP and programming by Cornelius Gould. Its precision mic preamp is clean and provides plenty of gain. Both analog and AES digital outputs appear on the back panel. Logic functions are provided to remotely turn the mic On or Off, or act as



a Cough Button. SMOOTH can be mounted on the desk or in a rack. MSRP is \$889.

What about other mics? "We expect to hear it a lot," said the company's Mike Uhl. "We have focused on the Shure product because it is so popular these days. And we are already working on a different product for the Electro-Voice Series microphones that we call Rebel. This will be a limited line of processors for professionals."

Info: <https://angryaudio.com/>



XL 3000 Expands Bext Transmitter Offerings

Bext Corp. expanded its transmitter line recently by adding the compact XL 3000 FM Transmitter.

"Following the resounding success of its bigger brother — the XL 6000 with 6 kW of power in a very compact size — Bext added the smaller XL 3000 with 3.3 kW of power also in a very compact lightweight package, only 3 rack units tall and 18 inches deep," the company states.

Like other XL Series transmitters, the XL 3000 can be powered by three- or single-phase AC power.

"Special attention was given to achieving highest possible efficiency, which will not only lower electricity bills, but by having minimal energy lost into heat it allows the transmitter to operate with low-speed fans and extends the life of the internal electronics, which are not

subjected to the typical high heat produced by other less efficient brands of transmitters."

Protections against high reflected power and other excessive environmental issues are built in.

The XL 3000 has a front-panel USB connection that allows the user to view or download files including the user manual and factory final test report. This function is active even when the transmitter is powered down or not connected to a power line.

A color touch screen gives access to most functions. The transmitter can be remote controlled via web page, SNMP and old-school traditional contact connections. Options include audio over IP, dynamic RDS, SNMP2 and AES-EBU digital audio input.

Info: bext.com



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A New Generation of Orban Broadcast Audio Processors

Orban is known for its 50 years in audio processing. In 2023 a new generation of Orban audio processors is coming to the market.

The Optimod 5950 is the first to be available. "It has a compact 1 RU design and offers a powerful package of features including Orban's breakthrough MX Peak Limiter technology," the company states.

"Equipped with a high-resolution touch display and the ability to be controlled remotely via any HTML5 web browser, the Optimod 5950 combines user-friendly operation with the highest quality audio processing for FM and DAB+/HD Radio broadcasts."

Analog, AES3, composite and digital MPX as well as AES67/ SMPTE-ST2110 inputs and outputs allow integration into any studio/

transmitter environment. An optional Orban μ MPX interface can be used for a cost-effective transmission of digital MPX signals over IP.

Features include Subharmonic Synthesizer for a punchy bass and the Multipath Mitigator "for a perfect stereo-to-mono downmix."

Following the Optimod 5950, the Optimod 5750 will be released, replacing the Optimod 5700i. It provides audio processing for analog FM broadcasts and for DAB+, HD Radio and streaming.

"Like its big brother, Optimod 5750 includes analog, AES3, composite and digital MPX and AES67/SMPTE-ST2110 inputs and outputs."

And the Optimod Trio completes the product line for 2023. It can be configured as AM audio processor, as FM audio processor or as an HD Radio, DAB+ and streaming audio processor. In the HD Mode, Optimod Trio is also suitable for TV audio processing.

New Optimod models come with an integrated RDS/RBDS generator supporting dynamic PS scrolling and IP access and are equipped with monitored dual power supplies.

Info: www.orban.com/

IQ vPilot Is an Automated Studio Driven by AI



Vislink's IQ vPilot is an automated, AI-based video production system that does not require camera people or an onsite director.

The company says it "empowers any individual or organization to launch their own news, TV or, increasingly popular, radio station or podcast, delivering professional-grade content production tools with unparalleled cost-efficiency and flexibility."

The IQ vPilot's AI capabilities direct cameras and switch shots based on the speaker and their importance within a discussion. A user-friendly vPanel allows presenters to integrate dynamic graphics, ticker tapes, overlays and video snippets easily.

"This capacity for visual content integration allows radio programs and podcasts to transition into the video realm, creating a multi-modal, engaging viewer experience."

Other potential uses include podcasting; budget-sensitive news operations; TV communications; and places of worship looking to broadcast their services.

Info: www.vislink.com

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A Mobile Interface for Podcasting and Streaming

The CEntrance PortCaster is a mobile audio interface suitable for radio reporters.

"With this handheld portable mixer you can host a live show, adding music and guests, or record an interview with the optional SD recorder," the company says.

"With warm analog sound and an eight-hour rechargeable battery, PortCaster makes you sound clear and lets you broadcast from anywhere."

Its Jasmine mic preamps feature 65 dB of low-noise gain and support professional mics. Features include analog limiters and a mono blend for live streaming. Mix-minus allows the traveling radio reporter to add call-in guests to the program. Mix-minus prevents annoying audio feedback from traveling back to the caller through the phone line.

"Just connect your phone, and dial up your guest. Or use it as a phone patch during your VO session."

Info: centrance.com/portcaster



Sprite Media Introduces the Sprite Presenter

"More and more broadcast facilities are being built with television monitors on the walls, but what do you see on these screens?" asks Sprite Media. "A logo? The local cable news station? Nothing at all?"

The company says Sprite Presenter can help: "It's not just a logo and a clock, it's your front line of connection."

Sprite Presenter is a visual presentation that greets guests throughout the day with a time-sensitive welcome, gives the latest weather and provides information feeds, news and social media highlights. You can add your own local information or wish a happy birthday or congratulate valued team members or guests.

Information comes from your news sources, social media sites, weather forecast or other available content. The presentation is made visually interesting with motion backgrounds, motion titles and wipes. The display can be customized with your logos, fonts and colors.

Sprite Media Presenter is sold for a one-time charge; there are no licensing or data fees.

Info: www.Sprite-Media.com



Summit Launches EAS Compliance Service

SummitGO is a new line offered by Summit Technology Group to assist radio and television broadcasters in maintaining legal compliance with the ever-evolving EAS requirements.

The product is available as a subscription, and the hardware gateway allows Summit personnel to remotely monitor all aspects of a station's EAS equipment.

Technicians maintain weekly logs, conduct quarterly inspections and provide proactive support by contacting the client in the event of a discrepancy. Required ETRS forms 1, 2 and 3 are filed on behalf of the station and firmware updates are installed per the manufacturer specifications.

Customers can manage their logs and access all required documents via SummitGO's secure online portal. SummitGO starts at \$119 per month for the first station and \$45 per month for additional stations in a cluster.

Info: www.summittechgroup.com



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ADB-FM₃ Is a Half-Wave Dipole FM Antenna

Jampro says the AlanDick ADB-FM3 Half-Wave Dipole is a rugged, high-performance FM broadcast antenna designed and built for years of trouble-free service.

"It can simplify problems and improve your service by providing various coverage solutions, including omnidirectional and directional patterns," the company states.

Galvanized steel brackets and hardware prevent corrosion, ensuring reliable service. The antenna elements are hot-dipped galvanized

(HDG) steel with a brass inner conductor. The manufacturer offers options for stainless steel or marine brass construction, which increases reliability and corrosion resistance.

The broadband antenna services 87.5 to 108 MHz and is available with vertical or horizontal polarization. Suitable for multiplexing frequencies, the design also supports up to 10 kW per dipole.

Info: jampro.com

GatesAir's Expands Flexiva GX FM Transmitter Series

GatesAir has expanded its Flexiva GX analog FM transmitter line, highlighting its power-to-size ratio for power levels up to 10 kW.

"Using the latest LDMOS technology, GatesAir has packed exceptional power density into a compact chassis, providing broadcasters with powerful FM solutions that deliver a remarkable overall efficiency rating up to 76 percent."

Originally introduced in 5 kW and 10 kW versions, GatesAir has expanded the range with models for 50 W, 1 kW and 3.5 kW power requirements. The latter receives its debut at IBC 2023.

The company cites Flexiva GX's design enhanced by third-generation PowerSmart high-efficiency transmitter architecture.

"Broadcasters seeking to refresh existing FM infrastructure for large regional and national networks represent a key customer



base. Flexiva GX transmitters support N+1 configurations, enabling large national network operators to build very flexible and consolidated transmission sites that meet the most stringent uptime requirements."

The Flexiva GX Series features modular, redundant transmitter 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 integrates within Flexiva GX transmitters, enabling direct receipt of contributed FM content instead of requiring an external codec.

Info: www.gatesair.com

Major-market to kitchen table.

Multi-station, major-market clusters where networked audio has been a given for years. Small-market, locally-owned stations discovering AoIP for the first time. Production and on-air studios where a physical surface is a must. A remote workforce where a “studio” doesn’t exist.

There is no “one size fits all” in the console world. But the one thing all broadcasters have in common is the drive to produce the most creative and compelling content possible for their listeners. Our job is to provide them with the tools they need, wherever they are on their technical journey.

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Axia® iQx



Is it a surface, or is it
a mix engine? Yes.



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TelosAlliance.com/AxiaConsoles



Reconfigure a Cat-5 With RAM

"Have you ever needed to change the wiring configuration of a Cat-5 cable?" asks RAM Systems. "Now you can with the RJ45F/Config."

This box provides female RJ45 connectors for input and output and two eight-pin terminal blocks for configuration modification. The cable shield is carried through.

This problem-solver in a blue plastic enclosure is 6 inches wide, 2 inches deep and 1 inch high.

RAM Systems also offers custom furniture, sound absorption products, master clocks and timers, speaker mounts, mic boom tallies and a number of other solutions.

Info: www.ram68.com

Ultimate Stand Supports Broadcast Mics

Ultimate Support Systems has released the BCM-300 Deluxe Broadcast Mic Stand, which is intended to be camera-friendly.

"From conference calls and podcasts to livestreams and radio shows, the BCM-300 fits the needs of a large variety of production value-oriented users," said Ultimate Support in a release.



With a clamp-based mounting system, the stand can be affixed to any flat surface. Additionally, with a max height of 37-inches and a three-point adjustment system, Ultimate Systems says the BCM-300 is highly adaptable.

"The extended-length 3.75-inch drop mechanism also provides more fluid rotation for side-connecting mics such as the Shure SM7B and other similarly designed mic models."

Built-in cable management clips and a threading knob at the central hinge point of the stand help keep the XLR cable out of sight. Additionally, with the closed body design of the stand, Ultimate Systems says the internal springs are noiseless and invisible.

Info: www.ultimatesupport.com/

WinCam Is an HD Multimedia Video Control Room

The winCam system from winMedia provides an automatic video camera management and production solution suitable for visual radio, social media and other applications.

"It's an all-in-one full HD multimedia video control room that features a powerful video engine, controls the most commonly used

PTZ cameras, and is able to integrate with all broadcast consoles and software," the company says.

The system lets stations create professional-grade video production with no large crew needed. WinCam provides control of PTZ cameras and memorizes multiple pre-set positions for each. The platform works with any type of camera including USB, IP, NDI and SDI.

Users can start recording and streaming to three simultaneous destinations, including auto-titling, with a click of a mouse.

The system also provides specific auto-titling assigned to each close-up camera. Up to eight video calls can be handled at once.

WinCam also automatically selects the most suitable camera angle and manages close-up frames or wide frames. "In order to avoid untimely switching when several speakers talk simultaneously, the system alternates wide shots or 'picture-in-picture' type compositions where several cameras appear simultaneously."

The company said this algorithm mimics human control as closely as possible.

The latest version of winCam, paired with winMedia payout, is in use at ADJA Radio, a Patisen Group media project in Dakar, Senegal. ADJA's control screen is shown in the accompanying photo.

Info: winmedia.org





Lawo Beefs Up Power Core With Rev3

Power Core is a high-density I/O, mixing, processing and routing engine from Lawo that provides multiple high-density Ravenna/AES67 and MADI interfaces. It also offers modular mic, line, AES3, GPIO and Dante interfaces.

"The new Power Core Rev3, alongside the still available Rev2 version, boasts extraordinary I/O capacity," the company states.

"Using industry-standard Ravenna/AES67 networking, AoIP facilities built with Power Core can easily scale from simple two- or three-room on-air suites to massive broadcast networks with thousands of channels of analog and digital audio and control, full routing capabilities and facility-wide DSP bus and input audio processing."

The internal matrix provides 1,920 x 1,920 crosspoints, up to 96 channels of DSP input processing supply EQ, dynamics, de-essing, limiting and delay.

"Capable of powering consoles with up to 60 physical and 60 virtual

faders, Power Core offers support for up to four independent control surfaces simultaneously."

Power Core Rev3 has four Ravenna/AES67 ports with SFP, double the previous number. The additional capacity can be used to expand I/O to as many as 512 Ravenna/AES67 channels, or to provide LAN segment separations or LAN-WAN gateway applications in large-scale deployments.

Bidirectional Unicast Ravenna/AES67 streams are now supported for wide-area applications. The front panel now has a convenient USB port and an SD memory card slot with security cover for software maintenance operations.

A new GPI/O expansion card provides eight GPI + eight GPO and two VCA inputs. This brings control features to the family of Power Core expansion cards.

New DSP capabilities include a low-latency Loudness Leveler and other improvements.

Info: lawo.com

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Update Your Sage Digital ENDEC

Sage Alerting Systems reminded its users about the Rev96 update for the Sage Digital ENDEC.

"This update addresses recent changes by the FCC to its Part 11 rules, including giving priority to CAP messages over an identical legacy message, and updating the text for national alerts," it said.

FEMA announced a National Periodic Test for October 2023, but the FCC rules don't take effect until Dec. 13, 2023, so either of the Rev95 or Rev96 updates are permissible for the October test.

The Rev96 update includes usability improvements, including

a login/out audit log and emailed weekly alert logs. The update is available from Sage distributors with a list price of \$159. Check Sage's website for additional information and availability.

Sage's recently introduced Alert Portal product is an optional software add-on to the ENDEC, allowing for browser-based origination of alerts. This is useful for stations with Monthly Test or other origination responsibilities, as well as public safety organizations that use legacy origination as a backup to IPAWS.

Info: www.sagealertingsystems.com

30

Super Hi-Fi Applies AI to Your Weather

Super Hi-Fi, an AI-powered SaaS platform, launched Weathercaster, a service for radio that is automated using artificial intelligence.

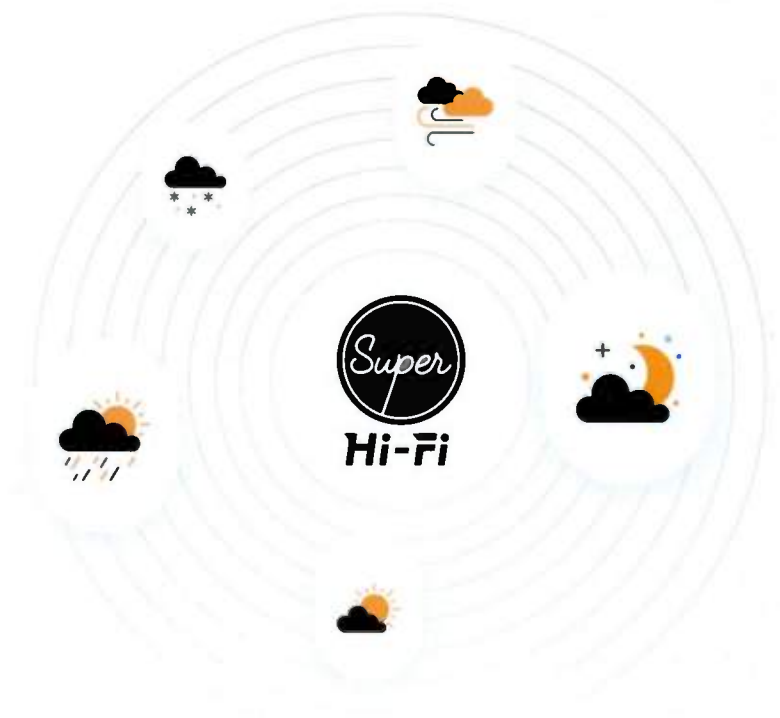
"Weathercaster is set to significantly enhance the way radio stations generate localized real-time weather reports, providing highly accurate, timely information while completely automating the content creation and audio production processes," said Super Hi-Fi in a press release.

The company says Weathercaster "goes far beyond basic reports." Accessing Super Hi-Fi's MagicStitch technology, Weathercaster incorporates synthetic voiceovers, integrated sponsorships, format-specific music beds and custom station IDs into its automated weather reports. These segments can be tailored to fit 15-, 30- or 60-second time slots.

"Weathercaster combines accuracy and reliability, premium production quality and an opportunity for stations to sell more premium sponsorships each day," said Zack Zalon, co-founder and CEO of Super Hi-Fi. It also offers custom, trackable sponsorship reads, designed to help stations to sell more premium ad spots.

The service has three subscription tiers — basic, premium and enterprise — starting at \$199 per month. Super Hi-Fi also offers bulk pricing for coverage across larger station groups.

Info: www.superhifi.com





A New Standard IP Core From DHD

DHD audio is out with the new XS3 core audio processor, which supports up to 20 stereo faders on DHD audio mixing consoles.

"Cores form the heart of every DHD system by processing all the audio as well as connecting control surfaces," the company wrote in its press release.

"They also perform input/output routing and interfacing with the outside world. IP audio feeds as well as IP-connected remote device control can be closely integrated. Automated workflows and product virtualization are also supported."

It said the XS3 will form the basis for the reintroduction of

mixer bundles that were popular with DHD users. These will be introduced for the SX2, DX2 and TX2 models with planned delivery at the end of Q4.

The XS3 occupies one rack space. A setup assistant tool allows a system supervisor to choose among default settings with a choice of assignable-button functions and display layouts. Advanced settings can be selected using DHD's Toolbox configuration software, available via an optional license.

Info: dhd.audio/products/cores/xs3

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