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Dolby 7.1.4 Speaker Setup



Eyte Technologies
Crafts a Versatile AV &
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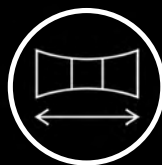
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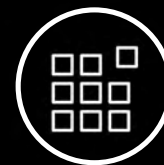
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09 NEC WD551 Windows Collaboration Display Product Review

DIGICO REVEALS SD12T FOR THEATRE AT PLASA 2021

DiGiCo has announced the release of the 'T' software for the SD12. Featuring refined hardware and Stealth Digital Processing, the SD12T's functionality and work surface can be instantly reconfigured to provide specialist theatre programming tools needed for theatre sound design, rehearsal and show operation.

The new SD12T has 96 inputs as standard, 48 busses and a 12 x 8 Matrix and features a flexible, expandable I/O structure that includes dual DMI card slots making it perfect for expandability with industry formats such as Analogue expansion, Dante and Waves SoundGrid.

The SD12's extensive local I/O section offers eight mic line inputs, eight line outs, eight mono AES/EBU, dual MADI in/out and optional Optocore for expanded Rack connectivity.

"Our T consoles are incredibly popular because they address so many of the specifics of theatre



SD12T featuring a flexible, expandable I/O structure with dual DMI card slots

productions," says DiGiCo Brand Ambassador, **Dan Page**. "In recent months, our theatre customers, particularly those working on regional tours, have been

asking for another compact, cost-effective desk. The SD12 is extremely popular in other market sectors and fits the bill for them in terms of size. Adding the

theatre specific software tools now gives the SD12 the same feature set as with our other 'T' consoles, making it the ideal addition to the T range."

HK AUDIO DEBUTS THE BRAND NEW LINEAR 9 SERIES

LINEAR 9 loudspeaker systems bring together the latest in audio technology and the evolved needs of professional audio companies. These user requirements are reflected in every detail of the new LINEAR 9 family: high-grade speaker components, custom-designed acoustic transformers and horns, birch

multiplex enclosures with PU coating, latest generation class-D power amps, high-performance digital controllers, advanced networkability, professional PowerCon adaptors and the manufacturing in St. Wendel (Germany) sum up to an efficient and value-pre-

serving alternative in its class.

The flagship model of the new LINEAR 9 family is the **210 LTA**, a fully integrated and scalable constant curvature point source speaker with exceptional long throw abilities. Based on the proprietary HK AUDIO transformer design method, the Multicell Transformer provides an accurate 60° x 25° sound dispersion above 1.35 kHz and can easily be rotated by 90°. The LINEAR 9 210 LTA delivers stunning results when used individually for pinpoint coverage of even distant areas or as a horizontal cluster in large venues, tents, or open-air events. The 210 LTA also offers various options for

ground stacking and rigging.

Equipped with the same DSP controller as the 210 LTA, the LINEAR 9 110 XA and 112 XA models are remarkably compact multi-functional loudspeakers designed to serve

perfectly the daily changing requirements of professional sound companies: as low-profile stage monitors, as a small FOH solution on a tripod, as front fills, flown in a rig or as mid-high units in combination with subwoofers.

The LINEAR 9 family is completed by two high-profile subwoofers, each providing a highly effective but easy-to-use cardioid functionality. The 118 Sub A combines a well-defined bass foundation with the utmost compactness and transportability. Its bigger brother, the 118 Sub BA, features a band-pass design for an extended bass range and a higher SPL. The two subwoofers are tuned so that they can be used together without any problems.

All LINEAR 9 loudspeakers share the same type of digital controller. It provides a catalogue of remote-control functions such as grouping, volume control, 10-band EQ, Limiter, Delay and full networkability (Controller software available for MacOS and Windows). The 'DSP-OUT' on every LINEAR 9 model is an exclusive feature enabling loudspeakers without built-in controllers, such as the LINEAR 5 series, to be fully integrated in a LINEAR 9 network.



LINEAR 9 210 LTA, equipped with the DSP controller, designed to serve the daily changing environments

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KLANG LAUNCHES NEW KLANG: KONDUCTOR IN-EAR MIXING PROCESSOR

KLANG has created the **KLANG: konductor**, its powerful and versatile immersive in-ear mixing processor to date, delivering connectivity that is ready for today and tomorrow.

"After joining forces with DiGiCo in 2018 and the release of the workflow integration for its consoles, more and more monitor engineers have implemented a KLANG immersive IEM processor into their workflows," says KLANG's co-founder Dr. **Pascal Dietrich**. "At first, only the most critical channels for the main artists were sent through the processor, but the wish for more input channels, and thus new creative and organizational possibilities, grew further."

Designed with monitor engineers

and fixed installations in mind, KLANG: konductor satisfies that demand with a high-end mixing system that can deliver 16 immersive mixes and process 128 input signals at up to 96 kHz, with an astonishing processing latency of less than 0.25ms.

"Our combined R&D teams were able to squeeze in twice as much processing power in a single 3RU device as found in any of our previous processors by using the latest, super-fast FPGA cores," CTO **Benedikt Krechel** explains. "Many of our customers value the I/O flexibility that our first KLANG:fabrik offers, but we know they need to quickly adapt to different I/O situations when touring through different countries. KLANG: konductor considerably extends this flexibility and lets the user choose I/O on the fly."

KLANG: konductor offers three DMI slots on its rear to provide unrivaled I/O freedom and guarantees flawless integration into any existing setup. For example, two DMI-MADI cards allow 128 input channels and mixes to be returned to a console; and one DMI-Dante card can connect the mixes to KLANG: kontrollers. Paired with integral single channel routing capabilities, it also allows the user to freely route between the immersive mix engine and convert between different DMI formats, e.g. Op-tocore, Dante or MADI, with each DMI card offering up to 64 input and output channels at both 48kHz and 96kHz.

"KLANG:konductor is the swiss army knife of audio format conversion and becomes very handy as an interface for virtual sound checks or multitrack recordings, at the same time as being

used as an immersive processor," says Dietrich.

Seamless integration into DiGiCo's control interface and the intuitive KLANG:app give engineers direct control, with KLANG:kontroller allowing musicians to control their own mix. This combination ensures maximum flexibility, with mixes always quickly accessible, along with fast access to system and mix settings.

While not many headphone amps are suitable for low impedance in-ears, KLANG:konductor offers the same studio grade amplifier circuit as KLANG:quelle on the front of the device. This allows engineers to directly connect their in-ears, route their console's cue output to it and seamlessly switch to a KLANG cue via the app.

The device also has a front mounted 7-inch colour touch display to allow for direct mix control, audio setup, routing and monitoring meters. A network port on the front of the unit provides power over Ethernet to directly connect a KLANG: kontrollers or KLANG: quelle and dual redundant power supplies offer maximum reliability.

"Immersive in-ear mixing has become increasingly popular, having proven to deliver crucial benefits to musicians by providing a natural listening experience and removing the feeling of isolation on stage," says Pascal. "KLANG: konductor is our most powerful and most flexible processor so far, and gives both engineers and musicians an immensely powerful, yet simple to use system, that delivers all those benefits and more."



KLANG: konductor mounted with a 7-inch colour touch display for direct mix control and monitoring meters.

64 AUDIO ANNOUNCES THE A3T CUSTOM IN-EAR MONITOR

64 Audio announces the launch of **A3t Custom in-ear monitor**. In typical 64 Audio fashion A3t in-ear monitor are made with revolutionary technology at an accessible price point. the 3-driver IEM includes Tia technology, along with LID and patented Apex and 3Dfit tech. A3t features a tubeless design that reduces resonance for a transparent and lifelike sound signature. 64 Audio's patented Air Pressure Exchange (APEX) pneumatically interactive vent relieves air pressure in a sealed ear canal, alleviating listener fatigue and opening the soundstage. A3T IEM incorporated with

LID - a correctional circuit that presents a flat impedance to the amplifier, resulting in a sound devoid of artificial coloration. A new way of manufacturing custom in-ear monitors preserves the details of ear impressions for the most comfortable-fitting IEMs possible. The goal with A3t was simple. 64 Audio wanted to make a reference monitor that rivals products more than five times its price. This simple yet powerful arrangement of balanced armature drivers and crossover components achieves this perfectly.



A3t IEM Designed for a Neutral, Balanced and Musical Reference Monitor

K-ARRAY PRESENTS THUNDER KS 2022 SUBWOOFER LINE

Thunder KS 2022 subwoofer line from **K-array** feature a new design approach that extends LF response and increases SPLs. The active Thunder-KS1 12" sub has four 1,500W amp outs with DSP for driving other subs. The 18" Thunder-KS2 1 has four 1,500W outs. The 21" Thunder-KS3 1 has four 2,500W outs. Shown above, the double-18 Thunder-KS4 1 has four 2,500W amp outs — all with DSP.

All 2022 models support K-framework designer and remote-control software

channels; 3-and fully parametric input equalizer; 8-band fully parametric selectable output filters, with peaking, high-shelf, low-shelf, high-pass, low-pass, HP Butterworth, and LP Butterworth; dynamic limiters; signal routing to freely assign input-to-output signal paths with level adjustment; and up to 230 ms of channel delay.

The Thunder 2022 Series subwoofers are built with choice Finnish birch plywood, so they are not heavy and cumbersome but are incredibly strong

which provides symmetrical back loading to the speakers for extended bass response with very low distortion and provides incredible structural strength to the cabinet despite its light weight.

Pocket handles and an M20 thread mount position for attaching mid-high speakers make the subwoofers convenient to use and ideal for applications in theaters, concert halls, and restaurant installations.

More than just powered subwoofers, our active models depart from tradition-

subwoofers include an integrated touch screen providing intuitive control over the main DSP functions, two balanced analog line level inputs and a two-channel AES/EBU digital input, and an onboard Class D amplifier. It's possible to connect a wide array of passive speakers including mid-high models or additional passive subwoofers.

To optimize performance, the onboard DSP includes up to 40 programmable presets. The first 8 have been designed by K-array, the additional



KS 2022 Subwoofer, DSP includes up to 40 programmable presets for optimized performance.

for advanced loudspeakers system management and a K-array Connect mobile app offers easy wireless access to the DSP features. The onboard DSP on the active versions includes: Channel Grouping group controls over multiple

and damage-resistant, making them ideal for audio rentals. Black, white, and custom RAL (on demand) finishes are offered.

Thunder KS 2022 subwoofer contain a unique four-corner port configuration

al subs in that their "smart" design puts electronics as the central component, transforming the mid-low frequency loudspeaker into a proper tool for the management and processing of the audio signal. These multi-tasking

32 slots can be used to create, save, and store personal presets using the K-framework software. And with the K-Dante accessory, the subwoofers are able to connect to the Dante network for audio and data transmissions.

RF VENUE INTRODUCES ITS FREE WIRELESS PERFORMANCE

Online tool allows simplified wireless microphone system reliability predictions in seconds

RF Venue has simplified wireless mic system reliability predictions with the development of the **RF Venue Performance Calculator**. The free online tool, lauded by early adopters amongst RF

Venue customers, greatly reduces the complexity of wireless system performance prediction, providing a reasonable certainty of reliable performance in mere seconds.

RF Venue has done the time-consuming steps of system performance calculation in advance, incorporating the needed specifications within the software. Users of the calculator simply

select system components via a handful of drop-down menus — microphone make and series, distance from mic to antenna, cabling type and length, RF Venue antenna / DISTRO distribution system models and, if known, the RF noise floor of the performance space. With a tap of a Calculate button, the results are indicated by a simple traffic light indication of go (green), caution (yellow), or no-go (red).

RF Venue President **Chris Regan** shared, "Typical RF link budget calculator tools are so compre-

hensive and detailed that they become nearly impossible to use for the average wireless system operator. Now, with our new wireless Performance Calculator, there's a much simpler option. Our customers are thrilled with the calculator's performance and ease of use."

The RF Venue Performance Calculator is available for use at rfvenue.com/rfvenue-calculator. A visual walk-through is available on the RF Venue blog, as is the "Create a Link Budget" video for users who want to learn more about the parameters that affect the prediction model.

RF Venue calculates system performance in advance and incorporates the needed specifications within the software

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MEYER SOUND INTRODUCES SPACEMAP GO PLUGIN FOR AVID VENUE

Meyer Sound has announced the introduction of a new **Spacemap Go plugin** for the VENUE 7 software platform and the Pro Tools digital audio workstation. Available immediately, the free AAX plugin enables users of Avid VENUE | S6L systems to directly access functions of the Spacemap Go spatial sound design and live mixing tool from the console's built-in touchscreen and control surface. In addition, the new plugin allows integration of Spacemap Go snapshots into the VENUE master show file to create virtual loudspeaker layouts and automate dynamic panning within the immersive sound field. Also, the parallel introduction of a plugin for Pro Tools, the de facto industry standard for digital audio workstations, allows creation of audio projects incorporating Spacemap Go functions.

Having this level of object access at the channel strip of S6L, in conjunction with an iPad running Spacemap Go, provides much-needed control and flexibility when mixing in an immersive environment." **Robert Scovill** Senior Specialist for Live Sound Products, Avid

When installed in VENUE 7, the Spacemap Go plugin functions as a client of the Spacemap server. When the console and the server (in the Galileo GALAXY Network Platform) are connected on the same network, setup is automatic. No IP address-

ing or port management is required. Functions accessible on the S6L control surface (touchscreen and CKM module knobs) include X/Y position, crossfade, spread, trajectory status (play/pause/stop) and trajectory rate for each channel. Also accessible are snapshot recall at the Channel, Mix and System levels as well as Mix Level for the global system.

"I'm thrilled to see Meyer Sound join the S6L platform with the addition of plugin control for Spacemap Go," says Robert Scovill, renowned FOH Engineer and Avid's Senior Specialist for Live Sound Products. "Having this level of object access at the channel strip of S6L, in conjunction with an iPad running Spacemap Go, provides much-needed control and flexibility when mixing in an immersive environment. Combined with the Milan network compatibility of S6L and the Meyer Sound GALAXY processor for easy audio transport, it's a match made for the times."

Spacemap Go is a spatial sound design and live mixing tool that leverages the processing power of Meyer Sound's GALAXY Network Platform in an intuitive iPad app. Snapshots can be created in most DAWs and integrated into the S6L master show file for static placement or dynamic movement of sound. Snapshots can be fully automated, or synchronized in conjunction with live, on-the-fly trajectories using the console

control surface, one or more iPads, or both simultaneously.

"I'm delighted by the way the two companies worked together on this project," says Robb Allan, Avid Principal Product Manager, live sound, and also

a live sound environment. "Because the plugin functions as a client, if the connection fails for any reason the server remains aware of what it is supposed to do. Also, because multiple clients can be running simultaneously — the console plus one or more iPads — this provides back up control and allows operation from multiple locations."

Avid VENUE | S6L is a unified live sound platform with full software, hardware and show file compatibility across the entire line. Control of Waves and AAX plugins are supported from the console surface, and 128-tracks of built-in Pro Tools recording enable a time-saving Virtual Soundcheck capability.

VENUE | S6L (with the optional AVID 192 card) and the GALAXY Network Platform are certified by the Avnu Alliance as compliant with the AVB-based Milan network protocol. This unique combination of network interoperability, flexibility, and powerful features presents sound designers and live performance engineers with the industry's advanced toolset for creating and controlling immersive sound environments.



The Spacemap Go plugin creates virtual loudspeaker layouts and automates dynamic panning within the immersive sound field

a Veteran FOH engineer. "I look forward to other joint ventures, particularly as we now share the same Milan-based network infrastructure."

For Meyer Sound Technical Support Specialist **Jose Gaudin**, a Principal Designer of the plugin, the server-based architecture gives Spacemap Go exceptional flexibility as well as reliability in

NEXT AUDIOCOM UNVEILS MAVERICK MV6 PORTABLE SPEAKER

NEXT Audiocom, a professional manufacturer and distributor of audio equipment based in Portugal, introduces the new portable speaker **Maverick MV6**.

The MV6 speaker is a coaxial 6.5" Portable Professional Battery Powered active speaker with Bluetooth (v 5.0), with high performance, ultra-low dimensions, and weight, allowing its use in a wide variety of indoor and outdoor applications with recorded or live music. In addition, the Maverick MV6 can also be used as a power bank. The MV6 includes a three-channel mixer with Bluetooth, microphone, instrument, USB, and AUX audio signal inputs, for better performance on live music, MV6 includes a tone optimizer for the microphone/guitar.

Mv6 features an elegant design and powerful sound, ensuring music reproduction of up to 12 hours using its battery. The EQ automatically adjusts to its use, allowing the user to keep the deep and powerful bass steady. The multi-position feature allows the MV6

to be used as a stage monitor (vertical and horizontal) on a tripod or any plain surface. The revolutionary FIR filters optimize the sound response with a linearized phase response. The MIC input allows the user to connect your microphone directly to the device. The

incorporated USB Player helps insert a USB Flash Drive and play the audio files directly on the device. It can easily create a wireless stereo system by pairing two MV6 via Bluetooth simultaneously, using True Wireless Stereo.

The MV6 includes a three-channel mixer USB, and AUX audio signal inputs for better performance on live music



Seamless Solutions for Evolving Workplace

NEC WD551 Windows Collaboration Display Product Review

by Abdul Waheed, Managing Director, EYTE



NEC WD551 Windows Collaboration Display

Post pandemic, workspace designs are evolving very fast. Various manufactures are trying to come up with one or other innovative ideas, meeting the current requirements for collaborative spaces with better meeting room solutions. During the pandemic, the use of software-based video conferencing applications like Zoom MS Teams and alike have increased tremendously. Most of the office environments use Microsoft Teams for their meetings. On the basis of this most of the video conferencing and conferencing devices are coming up with systems which supports Microsoft Teams.

We have perceived many innovative & impressive products regarding smart displays. NEC has come up with a display which is not just smart but intelligent too. Recently launched NEC product WD551 in July 2021 a windows based collaborative display.

This is an incredible seamless solution for collaborative meeting

rooms. This display supports "Bring Your Own Meeting scenarios" users simply connect their own device via a USB-C cable to immediately share content removing the need for an additional box for wireless connectivity. One can start video meetings using already familiar Microsoft tools. This display comes along with an inbuilt camera, microphone array and speakers, including cloud services integrated IoT sensors communicating with the cloud, it gathers information such as room occupancy, temperature, lighting, and air quality data, which, supports smart building strategies. These features are at par compared to various features of other brands.

NEC WD551 is a 55" PCAP multi-touch ink-enabled UHD display. With brightness of 400 cd/m2 & optically bonded glass along with 2 active pens with windows ink, supporting palm rejection. Pens to operate can be mounted on right side of display with charging point, 10 touch points interactivities via finger or active pen is provided.

The most imposing feature of this collaboration display is the Microsoft team's certification. Its an all-in-one solution which brings your office space and remote meetings together in a few seconds. Hybrid working is no more a challenge with the help of NEC's windows collaboration display. Collaboration can easily start by plugging USB cable to laptop. Once a video call is initiated it automatically uses the inbuilt camera, speakers and microphone of the display. Compared to any other brand this is the first MS Teams certified collaboration display. Smart source switching is also a unique feature of the display.

Looking at the IoT trends the device also has a cloud-based room management service which monitors Air Quality, Ambient Light, Humidity, Temperature, and Human Presence. All these parameters are monitored through an inbuilt sensors making the device smart and intelligent. These parameters can also be displayed on-screen giving the real-time analytics. No other display in

Pros

- Windows based Collaboration Display.
- Built-in IoT sensors
- 55" Diagonal 4K UHD Display with 400 units of brightness
- Built-in 4K Camera with 120-degree diagonal field of view
- 6 Array microphones and two front facing speakers.
- Display supports PCap Touch Technology
- Microsoft Certified
- 2 USB-C ports with Smart Switching Technology
- WD551 works in Palm Rejection mode while using pens

Cons

- Only available in 55" Size
- Mounting option only in Landscape mode



NEC WD551 Windows Based Collaborative Display



comparison has all these controls in single device.

Most fascinating feature of this product is that it consists of Microsoft certified camera, mic & speaker. The camera is with 4K, 113-degree horizontal field of view, 120 degree diagonal field of view along with six array microphone, distance 8m, 180 degree & front facing speakers (2x 12W), subwoofer (15W) making it the bestrecommended device of meeting and collaborative rooms solutions. One more advantage of this display is that the camera and microphones are detachable in case of further upgrades or adding third party devices.

Jamdub SoundLabs Installs Dolby 7.1.4 Speaker Setup

ProMusicals deploys an immersive solution to the Chennai-based Jamdub SoundLabs with a comprehensive Dolby 7.1.4 setup

Located in the quiet suburbs of Thoraipakkam, Chennai, **Jamdub SoundLabs** provides end-to-end post-production solutions to artists from the music and film industry with a unique experience. Established in 2019, by **KP Krishnan**, the studio envisages the inorganic growth and demand for digital audio and video solutions amongst the traditional industry as well as the newer OTT platforms and streaming services.

"Artists and engineers can avail a plethora of state-of-the-art facilities to meet their audiovisual recording and post-production needs. The studio

houses a live stage with lighting and camera equipment, providing artists with the opportunity to stream concerts in a professional setup," said **KP Krishnan**, Owner, Jamdub SoundLabs.

Serving as a mini production house for various platforms, it consists of a creative room and a writer's room to ensure a creative space for artists. The SoundLabs consists of two audio studios, one designed for surround sound that caters to recording, dubbing, and another for mixing requirements.

The studio floor can also be set up as a mini stage, allowing for the recording of full-fledged audiovisual productions

like concerts and broadcasts. The visual post-production facilities include an edit suite as well as a DI and color grading suite.

Jamdub also has a dedicated visual production facility like DI coloring and live to broadcast, ensuring every aspect of the production is taken care of in-house. All the facilities are available for hire, offering AV professionals the highest quality industry-standard production solution.

Surround sound is the next big thing due to spatial audio and Dolby Atmos. Lately, Dolby Atmos



Jamdub SoundLabs enhances its audio setup with Pulz Electronics to enable Dolby Atmos mixing. All speakers are powered by Pulz amplifiers

has been a gamechanger in the film industry. The 7.1.4 setup has gained popularity among engineers involved in post-production, making it the next big thing after the 7.1 setups. Jamdub SoundLabs aimed to find a cost-effective hybrid audio studio solution for music and film mixes and reached out to **ProMusicals**.

"The idea of this studio began as a friendly chat between ProMusicals and the owners of Jamdub SoundLabs, having assisted in most of their audio requirements. It was only a matter of trust, promptness, and the after-sales support provided by ProMusicals that led Jamdub SoundLabs to go with our recommendation of speakers for their Dolby project after an intensive recce of studios and theaters using Pulz Electronics in Mumbai," said **Vivin Kuruvilla**, Marketing Head, ProMusicals.

At the heart of the main studio is the Raven MT12 console from Slate Technologies, much to the delight of audio engineers in the region. Complementing the multi-touch console is a 7.1.4 studio speaker setup from Pulz Electronics, keeping in mind the growing demand for

Dolby Atmos mixing and mastering facilities in the city.

In September 2021, the project commenced, followed up by demos and site visits in Mumbai. Project execution for speaker installation and calibration was carried out in November and completed within two weeks of delivery.

"Our teams partnered together to ensure state-of-the-art audio quality that could cater to the needs of the industries and ensure the best value for money," said Vivin.

"Setting up a full-fledged surround studio during the COVID-19 pandemic was challenging. Inclement weather caused by unprecedented rains in Chennai caused delays during the construction phase. The main issue faced during the installation was the proper setup of the Intonato monitor control system. Setting up a Dolby Atmos surround studio with a passive speaker system also posed its limitations, which got subjugated using creative solutions," he adds.

The bass management system was configured to meet the audio standards preferred by the Bollywood industry. However, with a large part of the clientele renting the studio for South Indian music and film productions, this posed a unique challenge. As a result,

ProMusicals had to ensure that they approached this system in a manner that would meet their requirements without compromising on audio quality.

The architecture boasts a simple and intuitive experience for sound engineers. The studio facilitates state-of-the-art Neve preamps and a Focusrite Redline 16 sound card powered by Dante to provide high-quality inputs. The brainchild of the studio is the Raven Core Station multi-touch console, running ProTools and other DAWs to ensure a seamless workflow. The JBL Intonato 24 monitor console handles the output distribution, routing the signals to the Pulz Electronics amplifier rack that fires the Pulz Electronics surround speakers. The studio is also equipped with Focal monitors for stereo mixes, providing engineers with a plethora of options to get the best output.

Pulz Electronics CX10 SMP passive for LCR speakers, there are two rear surrounds, two sides surround speakers, and four additional **Pulz Electronics ES8** speakers for overhead speakers installed that enable Dolby Atmos mixing. All these speakers are powered by a pair of **Pulz Electronics PZ6300 amplifiers**.


The **Pulz Electronics Aerowave QSUB 118C** provides the LFE response in this studio. A pair of **Focal Trio 6BE**

monitors are configured for stereo outputs, and the subwoofer installed is powered by the **PZ2800 amplifier** in the bridge mono configuration.


The software end of the audio setup is equipped, with plugins from **Universal Audio**, with hardware support from the **Apollo x8 audio interface**. The virtual instruments and other plugins from Native Instruments ensure a multitude of options for engineers. The studio is equipped with multiple DAWs including, **ProTools Ultimate**, **Logic Pro X**, and **Cubase**, making it a versatile platform for audio and video post-production requirements.

The studio's recent post-production work done in Dolby is for the upcoming Karthik Subbaraj movie Mahaan, starring Chiyaan Vikram.


"Dolby was a guiding light right from the get-go. We would like to mention **Hareendranath Dwarak** and **Bhaskar Pal** for ensuring ample technical support at every step of the way. We would also like to thank **Edwin Wilson**, who provided us with the speaker positioning design using the DARTD tool available on the Dolby website. Their expertise and timely advice ensured a hassle-free setup with minimal issues," concludes Vivin.






N-LABS




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CLEARONE DEBUTS ENHANCED UNITE 200 PRO CAMERAS

ClearOne has announced the immediate availability of a new professional-grade camera featuring a 20x optical zoom lens plus a 16x digital zoom for extra distance if needed, the **UNITE 200 Pro**. Delivering 1080p quality at 60 frames per second with full pan, tilt and extended zoom functions, the UNITE 200 Pro is optimally suited for use in large spaces where close up, high resolution video capture is desired.

The 20x optical zoom and 16x digital zoom on the UNITE 200 Pro camera enables close-up HD video capture, making even the largest meeting spaces perfect for remote group collaboration or webinar recording. (Photo: Business Wire)

"We are dedicated to helping organizations of every size optimize their collaboration spaces with industry leading technologies to improve audio and video capture and provide powerful features that enable professional-level presentation at a very affordable price," said ClearOne Chair and CEO Zee

Hakimoglu. "The 20x zoom on the new UNITE 200 Pro camera enables close-up HD video capture, making even the largest meeting spaces perfect for remote group collaboration or webinar recording."

With the ability to capture 1080p quality video of all meeting room participants, or to focus on a single speaker, the UNITE 200 Pro is designed to impress every conference participant. Whether a meeting is held on ClearOne's Collaborate Space platform or on other leading services including Microsoft Teams, Zoom, WebEx or GoToMeeting, the camera's remote-controlled operation combines ease of use with innovative features to offer an unrivaled conferencing experience for large rooms. Presenters and meeting hosts gain an incredible degree of control through the camera's combined 20x optical zoom and 16x digital zoom, ensuring precise focus on the most important visuals and providing close-up views in even the largest meeting spaces.

The UNITE 200 Pro provides flexibility and enhances ease of use through



support of multiple protocols used to integrate with third-party components. Featuring USB, HDMI and IP connection options, the camera is ideally suited to use with streaming applications through RTSP, RTMP and Multicast. It

also supports industry-standard protocols including UVC 1.1, TCP-IP, HTTP and DHCP. The UNITE 200 Pro can capture 1080p quality video of all meeting room participants or focus on a single speaker.

EXTRON'S CONTROL SYSTEM INTERFACE FOR NEXT GEN AV POWER MANAGEMENT

Extron introduces the **IPL EXP PDU4H** control system power expansion interface that is designed to provide centralized power management for small to medium sized AV systems. It delivers the ability to control individual AC outputs remotely and allows for

aggregate current sensing. The IPL EXP PDU4H is Ethernet enabled and features four AC outputs, four manual control ports, and a relay for additional system support. It is designed to be used with an IPCP Pro xi Series control processor for secure, encrypted power control of

attached devices. It can also operate independently using a secure Extron API, enabling seamless integration for specialized applications. The IPL EXP PDU4H is housed in a compact 1U half rack enclosure that offers a broad variety of mounting options.

"We are excited to offer this next generation power controller to our customers," says **Casey Hall**, Vice President of Worldwide Sales and Marketing at Extron. "There is so much advanced technology designed into this compact package, we're certain it will be the ideal power management interface within your Pro AV system."

The IPL EXP PDU4H is housed in a 1 RU, half rack width enclosure and is rack-mountable using an optional rack shelf. The IEC-Edison Cable Kit is a new optional accessory kit that includes four, one-foot IEC male to Edison female adapters to assist in the installation of the power expansion interface.



IPL EXP PDU4H control system power expansion interface with IPCP Pro xi Series control processor

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FULCRUM ACOUSTIC PRESENTS AHS STEERABLE LARGE-FORMAT ARRAY MODULES

Fulcrum Acoustic, has released the **AHS Series**, a modular, scalable system targeted at applications where very high output and precise pattern control are required. This new series of products represents a leap forward in achieving digitally configurable coverage for long-throw applications, all within a surprisingly compact envelope.

"We've had ongoing requests from system designers for even higher output versions of our existing AH and AH4 products," says **Rich Frembes**, Fulcrum Acoustic's Product Manager. "The AHS' configurable vertical pattern allows dispersion to be tailored to a venue's needs. Its modularity allows it to scale as needed to tackle very long-throw applications, such as those encountered in stadium

end-zone/scoreboard deployments."

The AHS440 (45° horizontal beamwidth) utilizes 4 high-frequency horns, each paired with a coaxial compression driver. The AHS460 (60° horizontal beamwidth) uses 3 high-frequency horns. Both models incorporate 4 high-power 10" woofers loaded by Oculus phase plugs. The Compression Head extends the low frequency horn length, allowing for low frequency extension to 60 Hz in a modest 28" of depth. Frontal dimensions are a compact 36" wide x 31" tall.



AHS Series incorporated with beam-forming DSP algorithms and TQ Processing

Fulcrum Acoustic's TQ processing combined with beam-forming DSP algorithms configure AHS vertical dispersion to match a venue's specific geometries and throw distances. Multiple HF horns combine coherently to provide the output necessary to combat HF air loss which can be substantial in stadium-scale applications. AHS modules are designed to be stacked as needed to increase projection and control.

EPS SERIES SETS NEW PRICE POINT FOR INSTALLED NEXO

NEXO unveils the new **EPS Series** of loudspeakers for professional installation. Three 2-way passive cabinets and two partner subbass units are the first models in a new 'utility' range, which delivers high-quality European engineering at a cost-effective price that will galvanize budget-sensitive projects.

NEXO engineers have taken a no-frills approach to this new range, slimming down connection and mounting options, and taking advantage of new manufacturing techniques and driver design to hit unprecedented price points for its industry-standard point source products. Eius models will provide a way for many public and private installation projects to access a NEXO-badged system without breaking the bank.

Designed specifically for fixed installation, the EPS Series packages all the NEXO hallmarks of high output, superior coverage patterns, directional control and musical performance into compact trapezoidal-shaped wooden enclosures, with steel grilles for IP54 (and IP55) certified weather resistance.

The EPS range features three lightweight point source models, in 6", 8" and 10" iterations. Each cabinet includes a 1.4" HF driver and lightweight LF driver, with NEXO's trademark rotatable horn design offering dispersion options to the user.

Presented in Baltic birch plywood, the ePS6, ePS8 and ePS10 offer Peak SPL stats of 125, 128 and 130dB respectively. The ePS6 weighs in at just 7.1kg, with a footprint of 367 mm x 200 mm x 182 mm, and has a frequency response of 90 Hz – 20 kHz. The ePS8 weighs 8.1Kg, has a profile of 425 mm x 252 mm x 227 mm and a frequency response of 80 Hz – 20 kHz. The most powerful of the three models, the EPS 10 weighs 14.8Kg, is 533 mm x 318 mm x 283 mm and has a frequency response of 70 Hz – 20 kHz.

All three cabinets are minimally fitted with a hard-wired strip for connection, offering generic 2x 7 mm pitch IN/OUT screws connectors. The IP cover protects the connectors from moisture in outdoor applications. On each side of the cabinet, two M6 with 80mm pitch and one M10 fitting allow connection to U Bracket, bumper or eye bolts. The back of each speaker is fitted with 3x M6 with 70mm pitch for wall mount in both horizontal and vertical positions.

All units are finished in black structural paint, with a UV-resistant acoustic fabric stretched over the front grille.

All NEXO loudspeakers are partnered by a dedicated sub-bass option, although they are phase-compatible with any model from the NEXO range. In the case of the EPS Series, two powerful compact subs are being released



EPS Series incorporated with directional control

– the single-12" eLS400 and single-15" eLS600, which match the aesthetic of the full-range cabinets.

The eLS400 is a compact installation sub that can be stacked or flown, thanks to its discrete easy-to-integrate design. Weighing just 14.5kg, and measuring 365mm x 425mm x 447mm, this single 12" sub has been conceived as the partner for both the ePS6 and ePS8 cabinets.

The eLS600 is 425mm x 533mm x 562mm and weighs 26.3kg, using a high-excursion 15" driver in a bass-reflex enclosure design capable of 136dB peak output. It is designed to partner the ePS8 and ePS10. Cleverly, the width



and height dimensions of the rectangular subs perfectly match their partner main cabinets: a dedicated accessory allows the EPS to be flown beneath the subwoofer, creating small-footprint wideband systems that are visually pleasing.

On the four sides of the cabinet, two M10 fittings connect the eLS600 to U bracket, eye-bolts or dedicated accessories. Unused M10 fittings can be used for extra rigging points in areas where legislation requires it. Rear connection is via two (in/out) pairs of screws terminal blocks, while the included IP cover protects the connectors from moisture in outdoor applications.

Systems composed of EPS and ELS elements have the advantage of high-quality components familiar to all users of NEXO's premium systems, coupled with the unique processing capabilities of the NXAMPmk2 amplifiers.

JABRA LAUNCHES EVOLVE2 75 HEADSET TO REENERGIZE HYBRID WORKING

Jabra has announced the release of its Evolve range of enterprise headsets, the **Evolve2 75**. With 68% of employees seeing their Ideal work week including a hybrid model of working from home and an office¹, the Evolve2 75 introduces an innovative new solution, specifically engineered to make flexible working simpler and more productive for everyone, everywhere.

Jabra's latest hybrid working research shows that 85% of knowledge workers said being confident in their audio, video and connectivity allows them to excel at work². With that in mind, the new Evolve2 75 aims to be the flexibility hero, with comfort, concentration, collaboration and insights at its core. These pose the biggest challenges for organizations whose employees are working in changing locations, so Jabra has packed the Evolve2 75 with new features that push sound quality and comfort even further. Maximizing flexibility and increasing concentration, the Evolve2 75 delivers crystal-clear calls and pitch-perfect music in any surroundings.

Jabra has engineered an ergonomic fit for the ear cups, reimagining the leatherette, dual cushion design to improve ventilation and reduce ear pressure. In turn, this optimizes the curvature and padding of the headband to ensure this headset stays securely in place. Not only does this avoid causing

discomfort, but it also dramatically improves the overall active noise cancellation performance too, for maximized comfort without compromising on sound.

The Evolve2 75 is the first of Jabra's Evolve headsets to include fully adjustable Jabra Advanced Active Noise Cancellation (ANC), so you can pick and choose how much (or how little) of your surroundings you hear. A 'Hear Through' button allows for tuning back into the sounds around you when you need to, without even having to take your headset off. With customizable settings like My Sound (for the Sound+ mobile app), optimizing music for personalized hearing profiles, and Equalizer adjustment, available through the Sound+ app plus Jabra Direct on mobiles and PCs), the Evolve2 75 suits changing needs.

The mute and auto answer-enabled microphone boom arm on this new headset is 33 per cent shorter than on the previous Evolve 75 design, giving users even greater flexibility and better-sounding audio. The arm is also intended to meet Microsoft's stringent Open Office requirements, when the boom arm is flipped down in Performance mode. It effectively cuts out ambient sound in open-plan offices and loud, busy indoor areas. The headset has a discreet mode feature, you can easily fold away the boom arm when required for quality calls on the go.

The headset's 8-microphone technology works with Jabra's triple chipset-powered algorithm to distinguish between your voice and the

noise around you even more precisely, for the sharpest-sounding calls yet. The Evolve2 75 also includes a 'Busy-light' with increased 360° visibility for when total focus is needed.

Finally, Jabra has added extra benefits to the latest headset, making it even easier to go anywhere and still stay connected. Optimized for all leading Unified Communications platforms, the Evolve2 75 connects colleagues on whichever platform they prefer. The headsets also offer data capturing capabilities so IT Departments can make more informed decisions and troubleshoot any issues before they become a problem.

Jabra Xpress software also makes it easy to oversee deployment, update firmware and manage settings remotely. The 30-meter wireless range and dual connectivity to computers and mobile devices gives the Evolve2 75 extra flexibility, promising increased freedom to walk and talk without affecting call quality. With the Evolve2 75's extended battery life, charge-and-talk technology and new fast-charging capabilities, making as many calls as needed, from any location, has never been easier.

Holger Reisinger, SVP for Enterprise Solutions at Jabra said, "Our goal for every addition to the Evolve Series is not to simply create a new headset, but to set a new standard. That's why



we look at all aspects of the product during development in order to get to the best audio experience imaginable. With the combination of our ground-breaking new dual-foam technology, an improved headband and a revolutionary new 'comfort pattern' design, the Jabra Evolve2 75 provides incredible noise isolation and comfort for an all-round improved audio experience that feels as good as it sounds."

OUTLINE ANNOUNCES GSR FOR ACOUSTIC ANALYSIS

Designed in collaboration with the Department of Mechanical and Industrial Engineering at the prestigious Brescia University and engineered in Italy by **Outline**, the new **GSR (Globe Source Radiator)** provides a vital tool for acoustic analysis.

Optimized acoustics are a prerequisite of many modern buildings and for some (classrooms, offices, theatres, and concert halls for example), their acoustic properties actually determine how well they are able to perform their core purpose.

GSR's usefulness extends also into automotive, industrial, scientific, commercial and other areas, since

numerous essential acoustic parameters may be derived from measurements made using it as a sound source: Clarity Indices (C50, C80), Intelligibility Indices (AICons, STI, RASTI etc.), Reverberation Time (RT60), Early Decay Time (EDT), Soundproofing Power, Impulse Response and Intensity (G) and others may be determined. The GSR is also fully ISO10140, ISO354, ISO3382 and DIN 52210 compliant.

GSR's design combines a robust spherical enclosure with an Ergal aluminium inner structure that houses twelve 5" neodymium-magnet transducers and is the first such device to include a bass reflex design to extend

its frequency response.

It is also the only truly spherical device of its type available today, its unique 'globe' design eliminating diffractions, reflections and other anomalies caused by non-spherical radiators, which can compromise the accuracy of data measurement.

The GSR can produce a maximum SPL of over 130.3 dB, a figure far in advance of any other comparable product presently available and a remarkable output from a spherical loudspeaker only 31 cm in diameter.



The Outline GSR (Globe Source Radiator)

LG ONE: QUICK SOLUTION REDEFINES WORK IN THE NEW ERA

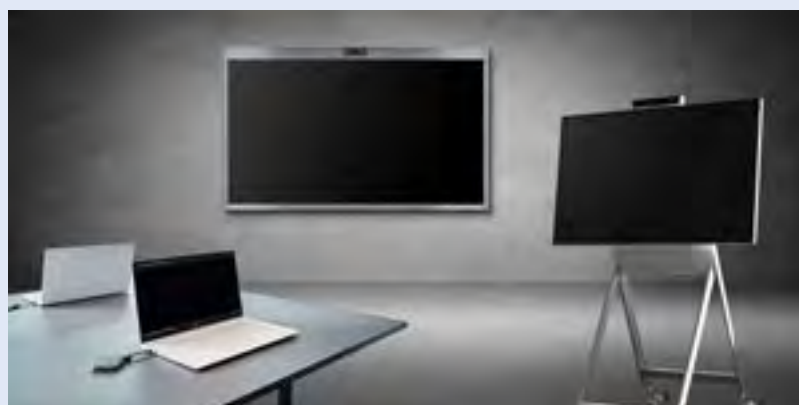
LG Electronics has launched LG One: Quick, a display solution developed in response to the new ways people work. **LG One: Quick** has the potential to change and expand how individuals, coworkers and teams communicate in the new reality of remote working. LG One: Quick consists of One: Quick Works (model 55CT5WJ), One: Quick Flex (model 43HT3WJ) and One: Quick Share (model SC-00DA), a dedicated wireless screen sharing solution.

One: Quick Works has a 55-inch 4K UHD video conferencing display and all-around productivity tool suitable for a variety of workplace environments such as a conference room. One: Quick Flex with its 43-inch 4K UHD touchscreen is designed with a movable stand to accommodate diverse usage scenarios. Both models are based on the Windows platform and are compatible with a huge library of video conferencing applications and collaboration tools. Once paired with One: Quick Share, users can easily and quickly connect their laptops wirelessly to compatible LG digital signage products.

LG One: Quick Works delivers seamless interactive communication for smooth, productive office meetings. This all-in-one solution features a built-in Windows PC, 4K UHD camera, microphone, speaker and digital whiteboard. One: Quick Remote Meeting, users can use shortcuts to install popular video

and focuses on the individual speaking.

LG's One:Quick Remote Meeting video conferencing application works seamlessly with One:Quick Works to share documents in various formats, perform real-time interactive drawings and automatically detect who's speaking on the other end.



conferencing and collaboration apps such as Teams, Webex and Zoom to instantly enhance productivity. The high-gain microphone is effective in clearly capturing voices up to six meters away with minimal background noise while the camera automatically tracks

LG One:Quick Flex is designed for a wide variety of business use scenarios such as small group meetings, one-on-one discussions and group presentations but is also an excellent option for hospitals, schools and homes where people may be working, learning or

talking to other parties remotely. A microphone and camera, intuitive interface, full touch pen support and whiteboard functionality complete the package. One:Quick Flex can be mounted to a movable stand for easy transport between the shared meeting space to the CEO's corner office for an important video conference.

LG One:Quick Share allows users to effortlessly share their laptop screens with compatible LG digital signage models. "Our new One:Quick series is a solution borne out of necessity by a new environment that forced us to think outside the box. By providing our customers with new ways to interact and get things done, we hope they will be able to better balance and enjoy work and life," said **Paik Ki-Mun**, Senior Vice President and Head of the Information Display Business unit of LG Electronics Business Solutions Company. LG's latest collection of advanced display solution products is designed to deliver an intuitive experience that enhances productivity and collaboration to take office communications to a whole new level of ease and convenience.

SDVOE ALLIANCE DEMONSTRATES WORLD'S FIRST 8K AV-OVER-IP SOLUTION

Soon-to-be-released SDVoE transmitters and receivers deliver 8K video across a standard network and are entirely backward compatible with 4K SDVoE systems

The SDVoE Alliance has announced the world's first 8K AV-over-IP transport solution. Soon-to-be-released SDVoE transmitters and receivers deliver 8K video across a standard network and are entirely backward compatible with 4K SDVoE systems.

HDMI 2.1 defines many 8K formats with varying bit depth, chroma subsampling, frame rate and color space. SDVoE 8K supports all of them without adding any compression or latency. Four independent links on an off-the-shelf 10G Ethernet switch provide 40Gb

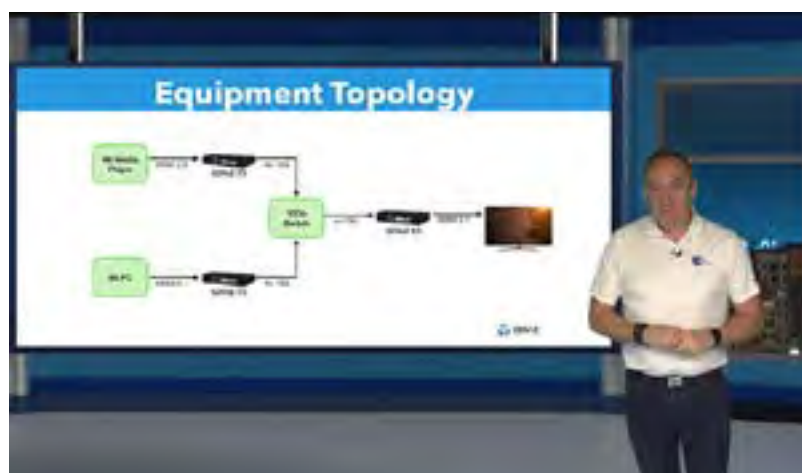
per 8K endpoint, no special or unusual switches are required.

"The InfoComm crowd would have loved to see 8K AV over IP in person, but at least we got a sneak peak in the lab," said **Chris Chinnock**, President of Insight Media and Executive Director of the 8K Association. "There are huge potential markets for 8K systems in the pro AV space starting with live events that feature massive screens and outdoor signage where we are seeing bigger and bigger canvases. People will also want to use 8K displays in corporate environments, for smaller video walls, in museums and of course medical applications – they actually have 8K endoscopes now."

"We really are the first AVoIP to do 8K at all – and the fact that it's totally compatible with existing SDVoE systems is important," said **Justin Kennington**, President of the SDVoE Alliance. "Your existing 4K 10G SDVoE transmitter can

send signals to your new 8K 4x10G SDVoE receiver. The opposite is also true, assuming you're sending 4K from the 8K transmitter (obviously you can't send an 8K signal to a 4K RX). What comes in, goes out without compromise – no added compression or latency."

All AV distribution and processing applications that demand zero-latency and uncompromised video can benefit from SDVoE technology, which provides an end-to-end hardware and software platform for AV extension, switching, processing and control through advanced chipset technology, common control APIs and interoperability. SDVoE network architectures are based on off-the-shelf Ethernet switches, thus offering substantial cost savings and greater system flexibility and scalability over traditional approaches, such as point-to-point extension and circuit-based AV matrix switching.



Technical discussion at 8K for pro AV with SDVoE.



EULOGY

Nikhil Mehta

Founder, Sudeep Studio

1935-2021

Much-Respected and self-taught sound engineer, the founder of **Sudeep Studio** and **SudeepAudio.com** games, **Nikhil Mehta**, passed away on 2nd September 2021 in Ahmedabad, leading a career that successfully inspired many in the pro audio industry.

Mehta was a reserved, camera-shy, and self-taught sound engineer who had topped in M.Sc. Inorganic Chemistry from Bombay University. Mehta was born in Mumbai, and spent 62 years in a joint family, and was also an expert in electronics under the guidance of his intelligent and kind father, Jyotendra.

Mehta started a corrugation plant at Charkop, Mumbai, that made boxes for Eagle and Milton flasks. Some financial theft by a partner made him switch to working with Parmanandas Patel. In this company, he repaired oscilloscopes and handled other

technical jobs for some Hungarian manufacturers. After his marriage in 1970, he started an Electronics training institute and a music store at Andheri Station selling records and record players, radios, etc. He named it Sudeep Electronics, "Sudeep" stood for "pure light", and was not a name of a person in his family.

After a record label backed out of a promise, as a matter of prestige towards the promise made towards some musicians, Mehta Set up a recording studio at his home. He did his first commercial recording on September 23, 1977, at Sudeep Studio. He has worked for two decades on several prestigious projects such as Kachi Dhoop, Chanakya, Aa Bail Mujhe Maar, and hundreds of private albums, radio spots, jingles, etc. He was also known as a master editor on spool tapes and worked for major films like Mr. India and many more.

Mehta moved to Ahmedabad in the mid-90s, where his last official job as a sound recordist was for Sanjay Leela Bhansali's film, Ram Leela (2013), where he recorded some folk instruments for

some songs. In the same year, he also initiated a biography on his illustrious grandfather Sir Lallubhai Samaldas, which was done by National Book Trust, New Delhi (author: Aparna Basu).

Mehta's son, Aditya has fond memories of his supportive father as he reminisces several anecdotes, for instance, Mehta building a makeshift studio overnight in their basement, when Aditya got a job to handle RJ auditions for Radio Mirchi's, Ahmedabad station in November 2001. He also supported and believed in his idea of selling studio gear and software online when the Net bubble had burst in 2000.

September 23rd marks the company's birthday for several initiatives. On this day in 1999, the company registered its domain name with Network Solution, USA. In 2003, SudeepAudio.com became India's first full-fledged online store, and in 2017 released Pro Audio games portal for education in audio.

"In 2011, we started the **conversations YouTube channel** to honour

sound engineers like him, who work tirelessly behind the scenes and ensure that the final quality audio output is the best. Papa refused to come on camera for the channel but took over the reins of editing and uploading the videos on YouTube. In the autumn of life at 86 years old, it was amazing to see him make Bluetooth pre-amps from waste materials like empty cheese boxes until 2021," said Aditya.

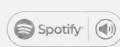
He further adds, "He was someone who never worked for the money. Papa's priority and focus were always to ensure that the job undertaken was done ethically, completed on time, and done perfectly. It would be better to try and incorporate his values and ethics into my own life than talk about it. Pops, you will always live in the hearts of all those you have ever met or recorded."

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N-LABS ELEVATES THE ACOUSTICS AT RADIXWEB

When software company Radixweb, which provides Software solutions decided to revamp the organization's canteen cum multipurpose space with an efficient audio system to enhance their sessions and events, they turned to **N-Labs** to provide the best solutions.

"We needed a versatile system that could cater to our multiple needs, an audio system that could support conferences, events, and training sessions," said **Sujit Pillai**, Network Operation Manager, **Radixweb**.

Radixweb corporate office in Ahmedabad, Gujarat, has now been installed with an N-Labs audio setup. The installation was done by Gujarat-based Gokul Acoustics, which provides an end-to-end solution for audio, video, and lighting systems.

The company had rented Audio systems occasionally, which was not

cost-effective, and decided to go for a permanent audio solution that would fulfill all their needs.

Manish Panchal, Acoustic and Sound system consultant on the installation process, said, "According to their space, I had to install a Four-line array and two subwoofers and its matching amplifiers of N Labs that would ideally match the venue's measurements. Since 90ft was their Land, 40ft was its width, and 11ft was the Height."

The audio setup at Radix now boasts of N-labs Dual 8-inch 900 watts RMS, XL 82-line array, and 1800 watts RMS with the 4.5-inch voice coil, infinity V2subwoofer, driven on X 5.5D Amplifier that has five year Warranty. The Entire system can deliver high-quality SPL up to 125 DB at 35 Meters.

Elaborating on the choice of products for the project, Manish shares, "The new install was simple and did not require any change in the acoustic architecture

of the venue. N-labs products provide the top-notch sonic experience desired by the client while maintaining the standard of usability and durability."

"The overall work is good with the right finish, and the team is also pleasant and supportive who helped us complete the events." Concludes Sujit.



DLC BUSINESS PLATFORM INSTALLS EMOTION LV1

When **DLC Business Platform** wanted a studio, which is at par with the best broadcasting studios in India, they reached out to VMT Enterprises to design and build an audio solution which could seamlessly handle live shows and broadcast the feed to a global digital audience.

The Studio at **Della Towers** is a state-of-the-art digital broadcasting studio which is responsible to develop fine pieces of recorded & live content for the DLC community. DLC is a Business Platform that focuses on six pillars - DLC Forums, DLC Knowledge, Brand Collaborations, YouTurn, DLC Genie and 19 Global Summits. The content includes masterclasses, interviews, fireside chats and seminars by global leaders in their respective fields.

The **Waves eMotion LV1** was "impressive and perfect for the job" says **Sai Prem**, Mix Engineer, Della Leaders Club. The game changer with Waves is its ability to use studio plugins within a live mixer seamlessly with near zero latency. The Waves platinum bundle installed into the LV1 at Della allows the mix to engineer the ability to manage tasks effectively. The Q10, Vitamin, C4 and H-Reverb have become "staple plugins" at the studio adds Sai.

The microphone inventory included

6 wireless channels from Sennheiser's 500 series, E835 handheld microphones for internal communications & talkback with another 4 EW100 - IEM G4 in ear monitors. The PCR Room uses 2 pairs of KRK studio monitors one each for the broadcast & camera stations. The Sennheiser MK4 large diaphragm studio microphone is set-up for dubbing and audio recordings.

"The brief at Della was simple - they wanted a studio which is at par with the best broadcasting studios. We were able to create a great synergy with the **eMotion LV1**, the Waves Plugins and Sennheiser microphones to achieve the desired level of quality," says **Jeff Mandot**, National Sales Manager, VMT Enterprise.

"Waves offers the ability to customize the solution for specific needs" says **Vicky Pereira**, Application Engineer, VMT. For DLC, we chose the **Sound-Grid STG 1608** - local I/O that allows 16 input and 8 output channels. This was coupled with the **Waves eMotion LV1-16 software** which runs on the Waves Axis Proton Host. The proton server handles the audio processing on the unit. "The system is built on the foundation that it can be easily upgraded to grow with the studio. Further, Waves separation of the



host & server units provides a robust backup In case of failure." Adds Wicky. We added a **FiT controller** to retain the tactile feel of a fader, while using **3 Viewsonic Touchscreens** for the mixer & plugin pages.

"At DLC we only work with the best and VMT has been our audio partner for nearly a decade now. Their knowledge

and speed of execution is fantastic. They also have the best prices and incredible service support. Our needs were well understood by their team and the project has been successfully executed to make the DLC studio at par with the very best in the country" said, **Jimmy Mistry**, Founder & CEO, Della Leaders Club.

GOLD'S GYM RAISES RAJAHMUNDY ENERGY LEVELS WITH DYNATECH

Gold's Gym is an internationally renowned chain of gyms that inspires its members to stay fit and healthy and instills in them the spirit to show up and exercise on a regular basis. An integral factor to their success is the ever-energetic ambience created by the wide variety of music that supports the diverse workout regimes they offer; and expertly reinforcing the music delivery at **Gold's Gym Rajahmundry** is the impressive pro audio system comprising products from industry leaders **Dynatech, LD Systems, Mackie** and **Marani**.

Designed and integrated by Gurgaon based solutions providers **Learniinspire**, the comprehensive audio setup consists of **10 R26**

premium install speakers along with **3 Zeta-15T active subwoofers** from Dynatech, deployed meticulously across the gym to achieve maximum impact and perfect coverage. The entire system is powered through 3 units of Dynatech's robust and efficient **CS-6001 amplifiers** and managed by Marani's **DPA-260P**. A **ProFX6v3 effects mixer** with **USB** from Mackie has been added to facilitate smooth and hassle-free media playback. LD System's **ICOA 15 A powered PA** has also been set up to deliver flawless performance with maximum clarity & power under all conditions.

Elaborating on the choice of products for the project, **Jaison Jopal** of Sonotone Electronics shares, "The team at Learniinspire was looking for speakers

which would seamlessly blend in and further elevate the vibe at the gym. So, we decided to present them with the combination of Dynatech's R26 and Zeta-15T to provide the top-notch sonic experience they desired, while maintaining high standards of usability and durability."

Omesh Sharma of Learniinspire comments, "The management of Gold's Gym Rajahmundry has nothing but praise for their newly installed audio system. It has had an amazingly positive impact on the gym, and the patrons love working out to the tunes produced. The music and energy are at an all-time high thanks to the stellar system. It's great to hear that everyone - gym members and management alike are in love with the sound!"



CHAIRMAN & MD OF NAPINO MODERNIZES HIS STUDIO WITH MACKIE'S DL32R

As Chairman & Managing Director of **Napino Auto & Electronics Ltd**, **Vipin Raheja**, is very aware of the deep impact and benefits of technology in our lives. So, when in need of a new mixing system for his studio located in Vasant Vihar, Delhi, he chose to invest in **Mackie's versatile DL32R 32-channel wireless digital mixer**, on account of the features, audio quality, and edge provided by its state-of-the-art digital technology. Sharing his views on the Mackie DL32R, Raheja says, "I was in search of an innovative mixing system to add to my studio setup; and the

DL32R opens up a whole new world of mixing possibilities. It's fast, powerful, and takes up very little space. With a lot going on around me, the DL32R is very simple to use just switch it on, and it goes to work. It's amazing to have a mixer that's intuitive. And with its recording ability, I can record and return to it later which is an absolute asset! The DL32R's fantastic sound quality, and powerful processing combined with the Master Fader app, makes it an easy choice. It has become the whole and soul of my studio."

Mackie DL32R 32-channel wireless digital mixer



R12 SOLUTIONS INSTALLS VOLITE GALAXY THUNDER LED PARS AT MULTIPLE VENUES

After having successfully upgraded the KVCN Auditorium in Thiruvalla, Kerala with new lighting from Volite, R12 Solutions has installed three more venues including Face2Face Foundation Delhi, FOLJ Faith Arena Delhi, and the WICC Church in Trivandrum with Volite Galaxy Thunder LED Pars. Supplied by StageMix, the lighting at all three venues was designed by Timothy Vanderputt and integrated by Joe Mathew - Proprietor, R12 Solutions,

Kerala.

"Lighting plays an important role in the overall atmosphere and experience of a space," says veteran lighting designer Timothy Vanderputt. "Since they were permanent installations, we opted for Volite's Galaxy Thunder LED Pars as we needed rugged, dependable lighting that is capable of years of reliable performance. Also, with the venues conducting online streaming as well, they would benefit with the LED Pars high brightness and color control."



Stage Lighting

Ayrton Huracán LT

Huracán LT is an ultra-intense beam with precision that can project over extreme distances, targeting a far-off subject. Provided with multiple optical tools designed for shaping light, HURACÁN LT is factory-equipped with a removable high-transmission diffusion filter to erase the edge of the beam without changing its angle.

Main Features include: • fixed colour wheel with six complementary colours • double saturation level that can obtain over a billion colours • Delivers 15:1 zoom ratio & zoom range of 3.5 to 53° output of 51,000 lumens • colour temperature of 6700K • advanced framing section • two superimposed rotating gobo wheels each with seven HD glass gobos • one linear with four facets, and the other circular with five facets • a 15-blade iris diaphragm and 2 frosts • suitable for television, film, and video use.

Technical Specification:

OPTICS

- Fast motorised linear zoom
- Tempered anti-reflective coated lenses
- 225 mm frontal lens for greater performance

FROST


- 2 frost filters: one light, one heavy

EFFECTS

- Monochromatic multi-position graphical animation effects wheel with continuous rotation
- CMY & RGB colour graphic animation effect-wheel with continuous rotation in both directions

SOFTWARE FEATURES

- Local DMX addressing of luminaire and optional parameters through its built-in LCD control panel
- Remote DMX addressing of luminaire and



Chauvet Ovation Rêve E-3

Ovation Rêve E-3 is a bright, multi-color LED ellipsoidal that has the capability of producing perfectly tunable whites.

Main Features include: • Full-spectrum LED ERS-style lighting fixture for theatre, film and production • Linear color temperature presets from 2800 K to 8000 K with high CRI and CQS • Virtual color wheel with color matched to popular gel colors • +/- Green adjustment and emulated red-shift via DMX or on-board control • RDM (Remote Device Management) for added flexibility • Adjustable PWM (Pulse Width Modulation) to avoid flickering on camera • Virtually silent operation for use in studio, film and theatre applications • Ultra-smooth 16-bit dimming curves and speeds to complement any lighting scheme • Innovative adjustable yoke for mounting in low clearance areas • Direct power/data connection and control options for the Ovation GR-1 gobo rotator • USB port for fixture software updates

Technical Specification:

OPTICAL

- Light Source: 91 LEDs (12 red, 19 green, 3 blue, 9 royal blue, 24 amber, 24 mint)
- Color Temperature (at full): 5470K
- CRI (3200 K): 95.4
- Beam
- Field Angle (w/50° lens): 55.7°
- Field Angle (w/15°-30° lens)(Narrow): 15.4°
- Lumens (w/5° lens): 5,076
- Illuminance (w/25°-50° lens)(Narrow): 3,710 lux @ 5 m
- Selectable PWM: 600 Hz, 1,200 Hz, 2,000 Hz, 4,000 Hz, 6,000 Hz, 25,000 Hz

DYNAMIC EFFECTS

- Dimmer: Electronic
- Shutter/Strobe: Electronic
- Focus: Manual
- Strobe Rate: 0 to 30 Hz
- Standalone Color Mixing: Yes

Elation Professional KL Fresnel 8 FC

KL Fresnel 8 designed for TV and film, theater, tradeshow, or any general AV application requiring high output soft light with precise color reproduction and adjustable color temperature. It offers a wide array of rich saturated colors, subtle pastels, and dynamic white light.

Main Features include: • 350W 3,000K >96CRI Warm White LED Engine • 14,000+ Total Lumen Output • Output On Par with Tungsten Halogen Models • 11° to 57° Wide Motorized Zoom • Manual and DMX Controlled Dimmer, Shutter, and Zoom • Dimmer and Zoom Rotary Dials • Smooth 16-bit Selectable Dimming Modes and Curves • LED Refresh Rate Adjustment • Flicker Free Operation for TV and FILM • RDM (Remote Device Management) • Gel Frame and Rotating Barn Doors (included) • 3 Clamp Position Adjustable Mounting Yoke

Technical Specifications:

SOURCE

- 350W >96CRI 3,000K Warm White LED
- 50,000 Hour Average LED Life*

PHOTOMETRIC DATA

- 14,000+ Total Lumen Output
- 43,673 LUX 4,057 FC @6.6' (2m) (Min Zoom / Full ON)
- 4,169 LUX 387 FC @6.6' (2m) (Max Zoom / Full ON)
- Zoom Range 11° - 57°
- Beam Angle 10.8° - 56.8°
- Field Angle 16.6° - 75.5°

EFFECTS

- Motorized Zoom
- Electronic Dimmer and Strobe
- Variable 16-bit Dimming Modes and Curves

Martin by HARMAN MAC Ultra Series

The Martin MAC Ultra Performance and MAC Ultra Wash workhorse stage lights features lumen output across the zoom range, a uniquely advanced framing system, higher definition optics and low noise levels, the MAC Ultra family is perfect for concert and touring productions and equally applicable for noise-sensitive broadcast and theater applications.

Main Features include: • 1150 W proprietary LED light engine • 84 x 20 W white LEDs • Minimum LED lifetime: >50,000 hours • Light Engine Luminous Output: 90,000 lumens • Fixture Luminous Output: 46,500 lumens • Peak Luminous Intensity: 3,000,000 cd • 160 mm front Lens • High resolution projection system • Choice of four dimming curves • CMY color mixing • Low noise cooling system

Prolights EclProfile CT+

The EclProfile CT+ is a, six colour mixing LED ellipsoidal. The wide feature set includes special theatrical functions such as tungsten emula-

Technical Specifications :

PHYSICAL

- Weight: 44.0 kg (97.0 lbs.)
- Minimum center-to-center distance in side-by-side
- installation: 830 mm (32.7 in.)
- Length (head): 660 mm (26.0 in.)
- Length (base): 468 mm (15.5 in.)
- Width (base): 312 mm (12.3 in.)
- Width (across yoke): 520 mm (20.5 in.)
- Height (head straight up): 864 mm (34.1 in.)
- Height (maximum): 876 mm (34.5 in.)

OPTICS

- Front lens diameter: 160mm Zoom
- range: 8.0° - 54° (1:7 field angle)
- Light source: 84 x 20 W White LEDs in a custom Martin engine
- Minimum LED lifetime: >50,000 hours (to >80% luminous)

CONSTRUCTION

- Housing: High-impact flame-retardant
- Thermo plastic Color
- Black Protection rating: IP20RoHS
- Compliant REACH: Compliant

GOBOS

- Maximum image diameter: 30 mm (1.181 in.)
- External diameter: 37.5 mm +0 / -0.2 mm (1.476 in. +0 / -0.008 in.)
- Maximum gobo thickness: 1.1 mm (0.04 in.)
- Coating: Heavy matted aluminum
- Material: Borofloat 33

CONNECTIONS

- DMX and RDM data in/out: 5-pin locking XLRAC mains power input.
- Neutrik TRUE1 socket, accepts TRUE1 NA-C3FX-W (TOP) connect
- Ethernet (Art-Net, sACN and P3) in/out, including fail-safe bypass

Chauvet Ovation Rêve E-3

Ovation Rêve E-3 is a bright, multi-color LED ellipsoidal that has the capability of producing perfectly tunable whites.

Main Features include: • Full-spectrum LED ERS-style lighting fixture for theatre, film and production • Linear color temperature presets from 2800 K to 8000 K with high CRI and CQS • Virtual color wheel with color matched to popular gel colors • +/- Green adjustment and emulated red-shift via DMX or on-board control • RDM (Remote Device Management) for added flexibility • Adjustable PWM (Pulse Width Modulation) to avoid flickering on camera • Virtually silent operation for use in studio, film and theatre applications • Ultra-smooth 16-bit dimming curves and speeds to complement any lighting scheme • Innovative adjustable yoke for mounting in low clearance areas • Direct power/data connection and control options for the Ovation GR-1 gobo rotator • USB port for fixture software updates

Technical Specification:

OPTICAL

- Light Source: 91 LEDs (12 red, 19 green, 3 blue, 9 royal blue, 24 amber, 24 mint)
- Color Temperature (at full): 5470K
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- Field Angle (w/50° lens): 55.7°
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- Selectable PWM: 600 Hz, 1,200 Hz, 2,000 Hz, 4,000 Hz, 6,000 Hz, 25,000 Hz

DYNAMIC EFFECTS

- Dimmer: Electronic
- Shutter/Strobe: Electronic
- Focus: Manual
- Strobe Rate: 0 to 30 Hz
- Standalone Color Mixing: Yes

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Technical Specifications:

SOURCE

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EFFECTS

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Main Features include: • fixed colour wheel with six complementary colours • double saturation level that can obtain over a billion colours • Delivers 15:1 zoom ratio & zoom range of 3.5 to 53° output of 51,000 lumens • colour temperature of 6700K • advanced framing section • two superimposed rotating gobo wheels each with seven HD glass gobos • one linear with four facets, and the other circular with five facets • a 15-blade iris diaphragm and 2 frosts • suitable for television, film, and video use.

Technical Specification:

OPTICS

- Fast motorised linear zoom
- Tempered anti-reflective coated lenses
- 225 mm frontal lens for greater performance

FROST

- 2 frost filters: one light, one heavy

EFFECTS

- Monochromatic multi-position graphical animation effects wheel with continuous rotation
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NEW BEGINNINGS

When You Lying Face Down in a Ditch – Stop Digging

The world has started turning and all of us in the event industry are praying that the momentum picks us up very soon.

Green Shoots are Sprouting. Let's pray for hospitable rains and fair weather for the new plants to thrive.

While we are caught in the euphoria of New Beginnings and all of us are desperate to get back to work in any shape or form, let's pause for a bit.

This long period of forced inactivity (at least for some of us) has allowed us to pause and be alone with our thoughts. All of us have experienced despair at some point. Followed by the joy of being with our families and being refreshed in their company.

Some of us may have picked up hobbies, attended to our outstanding health issues.

Some of us would have faced the tragedies of losing friends and family too soon.

Tumultuous Times.

Now it's time to renew ourselves and head back to what we love doing. For some of us – it's the only way we know how to make a living.

Give pause my friends and review our experiences and our learnings.

This piece is meant for all of us to remember where we started in March 2020 and where we are today.

As work cranks up – I hope our experiences lead to wise choices and we don't forget our resolutions as soon as the pressure builds.

One of the most gratifying developments is the initiation of Industry Bodies. Some industry Bodies that were caught completely unawares (Understandable perhaps) have made attempts to renew themselves.

This to my mind is critical for our industry to grow.

History has shown that far too many people have taken advantage of both sellers as well as rental houses by playing one against the other. Squeezing advantages away from our Technical Services Trade.

Hopefully, these new Industry Organizations will hold strong and this scrambling that we used to do will stop.

Do Our Clients need to fear these

industry bodies? I hope not. The Bodies do not aim to form cartels and create a stranglehold on anything. The Bodies would like to (From what I have seen of them so far) understand that healthy competition is the best way to take all of us forward together.

I sincerely hope this mindset persists when the work picks up. It Will. Let's not even consider the opposite.

Our Government in its wisdom has created a new set of rules to conduct our business.

Unfortunately, while our business forms a tiny fraction of the trade the new regulations wish to control, it has an outsize effect on our people whose job it is to send expensive equipment around the country at a moment's notice.

That is as it is. Let's just accept it on the chin. We are just not in a position to make any structural changes but will need to figure a way out around this.

In our Business, Technology is King. The most important link is the nut behind the wheel. We are a service industry and service mean people. Ask any management consultant – Happy people provide Great Service. Think about this and track the benefits of introducing this culture in your organizations.

The associations have hired competent professionals and hopefully, they will streamline our collective way of doing this.

The more frequently the authorities see our industries paperwork done in a particular format. The more they will trust us and life will ease for all of us.

This brings me to address an idea that has been expressed too many times from diverse sources.

'Bas Ho gaya. Now it's each man for himself. I will only think for myself and do what's best for me – damn the collective.'

As my above tiny illustration shows – in the long run, please don't expect it to work.

We are a collaborative industry. We need each other to go forward. We need to learn from each other and

teach each other.

Which brings me to another fallacy. In our Business, Technology is King. Technology is definitely important – But In our Business, the most important link is the nut behind the wheel. We are a service industry and service mean people. Ask any management consultant – Happy people provide Great Service. Think about this and track the benefits of introducing this culture in your organizations.

A while back the head of one of the larger Event Organizations was moaning to me about the lack of discipline in our industry. My answer did not please him. I pointed out that over the last ten years his organization along with many others had created a culture where their executives fed their creativity on YouTube. It made for cost-effective presentations, and then the entire focus of the organization

feature on everyone that survives and thrives is simply People. Those guys invested in their people almost as much if not more than they did with technology.

One Lot had Trafull's of equipment lying around gathering Dust. On-site, they would whisper to us 'Sir Who do light ka bulb kharab hai. Sambhal ke use karna.' Or if you ordered 12 lights – 24 would show up. 'Bigad gaya to replace kar dena'

That's the expediency that will kill us. Think of costs tied up in wasted investment.

Hey – I'm not pointing fingers. We all have to do what we need to survive.

I'm just urging you to play the long game and THRIVE.

I sincerely hope these NEW BEGINNINGS will be fuelled by thought and ideas and we have all used this time off to regroup and come back stronger and BETTER.

We were all thrown into the ditch together. Let that common experience establish solidarity and we climb out of the ditch wiser and better equipped for the road ahead.

THINK



AV-ICN EXPO CONNECT DIRECTORY OF SYSTEMS INTEGRATORS

AV Integration is a growing field; the changing AV and IT landscape has helped Systems Integrators to flourish competitively. In this issue, PALM+ AV-ICN Magazine is featuring a Directory of Systems Integrators. The listing is a step to build a connection between Systems Integrators and other AV industry professionals. The Directory will be an ongoing feature, hence we encourage Systems Integrators who are missing from this list to come forward and share their details for inclusion in the Directory. The Directory will also be accessible on our website. <http://av-icnx.com/magazine/index.aspx>

Actis Technologies Pvt. Ltd.

Founded in 1971, Actis is one of the pioneers in India's audio-visual industry. Actis specialises in designing and building infrastructure for faster, more productive and cost-effective communication and helps clients by applying technology, such as Networked AV (Audio Visual) Solutions.

Actis has received 45+ awards over the last two decades from partners, customers and the industry.

With extensive experience in integrating a wide variety of solutions it has represented some of the leading international brands for AV and collaboration technology in India. Actis follows global AV best practices which have resulted in long term engagements with many leading Indian and multi-national organizations.



AGC NETWORK LIMITED

AGC Networks is a leading digital technology solutions provider, having expertise in architecting, deploying, managing and securing customer IT and communications infrastructure.

AGC's strength, lies in delivering relevant solutions and seamless global

services that support customer's IT environment, globally through its network spread across 9 countries.

It is a leader in Enterprise Communications in India and has a significant presence in the Middle East, Africa, North America, Australia, New Zealand, Singapore, Philippines and the UK, serving over 3000 customers.



All Wave AV

AllWave is an industry-leading AV solutions provider that delivers custom-built & innovative collaborative, digital media, broadcasting, and electronic security solutions to a clientele spread across PAN INDIA. The team of technical experts work side-by-side with Industry Specialists, AV/IT consultants, Project management consultants, end-users and Space Designers to devise custom solutions, for a large number of corporate enterprises, homeowners, auditoriums, educational institutions, and training centers.



AVID (AV Integration Distribution (India) Private Ltd.)

AVID India specializes in professional audio visual and communication systems integration. The company provides a customized solution packages which encompasses design, supply, delivery, installation, testing and commissioning and maintenance of audio-visual systems across segments which include corporate boardrooms, training rooms, meeting rooms, collaboration centers, banquet halls, pre-function areas, concert halls, auditoriums, stadiums, convention centers, universities, theme parks etc.



ColCom

COLCOM- Collaboration and Communication Technologies is a leading AV System Integrator designing, implementing, maintaining and managing Audio Visual solutions and Video Conference systems. ColCom integrates solutions tailored to client's unique

needs, providing integrated technology solutions and services in the realm of professional audio-visual and information communication solutions.



Cosmos Business Machine

Cosmos Group of Companies is a solution provider in Audio-Visual, Telecom, and Security, for several business houses in India. The company aims to establish an efficient and secure communication network by deploying turn-key solutions tailor-made for specific business requirements. The company has partnered with numerous OEMs and deals with clients across various industry verticals like BFSI, Hospitality, Pharmaceuticals, Media & Entertainment, Government, and Education.



Enkay Converged Technologies

A Lalbhai Group company – Enkay Converged Technologies LLP designs and executes a wide range of technology solutions for enterprise. Enkay

Technologies (India) Pvt. Ltd. started its journey as an Enterprise Telephony company and has continued to reinvent itself over the years by offering a varied range of Converged Technologies Solutions.

Their specialty includes Data. Cloud. Communications. Software. Security. Network Infrastructure. The company integrates systems, deploys necessary analytics, and helps companies to leverage mobility and IoT.

With 37 years of industry experience, Enkay today, has a significant presence in the enterprise business such as BFSI, healthcare and manufacturing and enjoys leadership position in hospitality segment.



Epitome Infotech

A recognised player in the design & execution of technology integration projects related to enterprise infrastructure, the company's capabilities lie in End-to-end solutions in information and communication technology (ICT) solutions, enterprise and campus network solutions, and audiovisual integration and pro audio. Their technological expertise lies in providing the most optimum LAN and WAN networking solutions by understanding how the network interacts with applications and systems enabling enabled them to create a significant presence in the fast-growing IT infrastructure market.



Godrej Audio Visual solutions

Godrej Audio Visual Solutions is one of the most experienced and leading audio visual solutions provider, bringing audio visual products and solutions that seamlessly integrates audio, video, display, lighting equipment and system controls for applications such as boardrooms, conference rooms, auditoriums, training rooms, cafeterias, telepresence rooms and much more. With pan India

presence and team of around 230 professionals, the team consists of some of the most experienced audiovisual integration specialists in the industry and several Godrej AV Solutions specialists hold international certifications and awards. With a focus on global consistency and quality, Godrej AV Solutions is the exclusive India member of the Global Presence Alliance (GPA) – a network of specialist audio, video and unified communication companies that streamline how people work together across the world.

Godrej AV Solutions offers audio visual solutions for various market verticals in India such as education, enterprise, BFSI, government, defence, healthcare and hospitality.



Ideas Ahead AV Solutions Pvt Ltd.

Ideas Ahead is a leading Audio Visual systems integrator and service provider. Ideas Ahead specifies designs, installs, integrates, maintains and operates complex audio visual systems for corporate and public sector customers and excels at complex projects requiring converged AV and IT solutions. Established in 2009, the company carries out full system design and installation from cabling through to the integration of display media and programming of high-end control panels and interfaces.



Innovative Solutions India Pvt. Ltd.

The Innovative Group started as of three separate companies in 1993, 'Innovative Systems', 'Innovative Solutions' and 'Integrated Systems'. All these companies handled various aspects of the group's major Audio, Video, Lighting, Consultancy, Operations and Integration business. In April 2005 the group launched a new entity "Innovative Systems and Solutions Pvt. Ltd." (ISSPL). The groups business is now handled by ISSPL and the other companies diversified in to related support businesses. Today ISSPL is a preferred & Award winning Audio Visual System Integrator, having rich industry

experience and highly qualified team of professionals.



Leviathan Systems Pvt. Ltd.

Leviathan Systems Pvt. Ltd is a solution provider for Audio-Visual Communication & Automation Systems.



Multee Proe India

Multee Proe India is a technology consulting & trading firm that delivers quality Audio-visual Solutions to its clients. The company constantly refines and integrates new technology to meet business challenges and provides high-quality, professional engineering, technical, and business services. Multee Proe India has a versatile customer base across different sectors like banks, corporates, multinational, IT Industry, engineering colleges, medical & dental colleges, scientific research & training institutes, etc



Office 2000 Solutions Pvt. Ltd.

Backed by an experience of 20 years and 4500 system installations across verticals and geographies, O2K are recognized for technical excellence. The company delivers quality experience with end-to-end management. From design and project engineering to product selection and installation, O2K delivers one-stop-solution to the AV industry. Their expertise lies in creating innovative audio-visual communication environments across industries which include Corporate, Manufacturing, FMCG & Retail, Information Technology, BFSI, Telecom & Healthcare, Education and Residential.



Online Instruments:

Online Instruments, incepted in the year 1994, began in the distribution segment and slowly ventured into the system integration of audio-visual equipment. Today, we have carved a niche by becoming a complete product and solutions provider and a leading system integration specialist by providing solutions in Telecommunication, AV, IT, Lighting and Automation. Our larger vision has enabled us to deliver absolute innovative solutions to our customers. Right from lighting to audio and video conferencing, AV integration, automation and even display solutions, we are able to bring all building integration requirements, which make a premise future-proof, underneath one roof.



Play Technologies:

Play Technologies offers a complete package of technology design services for Residential and Commercial System Automation.

For over twenty years, have accomplished several famous projects. Their designs range from advanced home security systems, audio video conferencing solutions, automated lighting systems for homes, automation and control systems etc.

Their services include Design Consultancy, Project Management, Design Audit, System Build and System Maintenance.



Plus Business Machine

One of the most recognised names in the AV industry today, Plus Business Machines Ltd., established its India operations in 1995 focusing on the marketing & support of AV products in India. In a span of 23 years, PBML has become one of the country's foremost solutions provider. In India, PBML has its footprint across all major towns and cit-



BNA TALENT

Virtual / Hybrid Studio

15th recording arts awards ceremony



Recording & Studio Equipment at PALM

IRAA 2021 Award Ceremony Streaming - Concept and Production by NJSM | BNA Talent

ies through its own offices and resident engineers.



Qubix Technologies:

With its roots dating back to 1985, Qubix is one of India's Premier Audio Visual Information Communication Technology (AV-ICT) service provider of collaboration and audio-video technologies and managed AV services to businesses and organizations. The company integrates solutions related to video conferencing and telepresence, digital media systems, Facade Lighting, audio, security systems, control rooms, and onsite staffing.

Headquartered in Bangalore, India it has a team of around 45 people across 8 branches in India.



Resurgent AV Integrators Pvt. Ltd.

Since 2008, Resurgent has been transforming the digital world with holistic AV solutions. Resurgent today has offices across India and presence in 3 other countries. With a dedicated team of over 80 employees, Resurgent designs, integrates and incorporates the latest AV technology and communications systems into business facilities across the world.



Sigma AVIT Technology Solutions Pvt. Ltd:

Sigma AVIT Technology Solutions, is a professional Audio Visual, Design,

Consultancy and System Integration Company with capabilities in AV Project execution, from design to handover. Promoted by senior, experienced Technocrats, the execution is characterized by a well-defined process for Project Implementation, Project Management and Quality Management. The company's expertise lies in Design, Supply, Installation, Testing and Commissioning, support and maintenance of Audio-Visual Systems. Their ability and experience extend to designing and implementing AV Solutions, for Network operating centers (NOC), Command Centers, Conference rooms, Video Conference rooms, Boardrooms, Normal training rooms, Meeting rooms, Multipurpose halls, Auditoriums, Education Institutes, high profile training rooms with room combination facility, Convention centers, etc. An ISO 9001:2015 certified company, they are winners of multiple prestigious awards.



Solution India System Pvt. Ltd.

Solutions India System Pvt Ltd – (SISPL) is an Audio-Visual solutions and System Integration Company, for turnkey greenfield projects. The company provides AV Solutions and Unified Communications to enterprise customers for multifunctional areas like, Boardrooms, Cafeterias, Smart Learning, Huddle Spaces, Reception Lounges, Meeting Rooms, Auditoriums, Tele medicine, Experience Centres, Room Management Solutions and more.

Their clientele lists from small scale organizations to Fortune 500 companies across different vertical segments such as Banking, Financial Services, and Insurance, Media, Government, PSUs, Healthcare, Hospitality, IT, Manufacturing and Automobiles.



V Tech Technologies Pvt. Ltd.

V-TECH Technologies Pvt. Ltd. is a leading residential and office automation systems integrator and consultant created in 2002 to respond to burgeoning market demand for intelligent lifestyle solutions, particularly in the corporates and residential sectors. Through strategic partnerships forged with leading control and automation manufacturers globally, combined with specialised experience in systems installation and design, V-TECH Technologies Pvt. Ltd. aspires to become the premier intelligent control solution provider for both residential and commercial sectors.



Vega Global India

Vega Global is one of the largest System Integrators and Managed Service Providers for digital workplace systems, audiovisual solutions, video conferencing, and collaboration technologies. The company designs, implements, and supports solutions across all industries.

Founded in 1986, as a local distributor of audiovisual equipment, they have evolved into world-class solutions and services provider to meet the diverse needs of clients around the world. Today, they have a comprehensive network of more than 600 professional staff working across 20+ offices in APAC. Vega Global has been the preferred partner of enterprises and Fortune Global 500 companies.



Velocis Systems Pvt. Ltd.

A leading system integrators, helps organizations leverage IT for their competitive advantage and to derive business value. Velocis supports clients in the areas of Cloud, Enterprise Networks, Collaboration, Workplace Automation and Knowledge Management by a team of over 1100+ proficient and certified IT professionals.

The company serves clients across mid-market, manufacturing, BFSI, Government/ Public Sector & e-commerce.

At present, one of the firm's core initiative is enhancing Enterprise Networks, Cloud & Digital Signage solutions that would enable organizations to deliver highly optimized business solutions. With expertise in areas of data center and infrastructure domains, Velocis offers dynamic, scalable, software driven and secure Enterprise Network solutions.



Zerone Technologies:

Zerone Technologies is a leading System Integration Company offering products and solutions in IT, Telecom Infrastructure and Software Solutions for Large and Small Enterprises.

Businesses today demand advanced, secured, intelligent and scalable network infrastructures to support the increasing bandwidth demands brought by the concepts in cloud computing and convergence of numerous applications like telephony, video, IP surveillance, computing traffic etc. Zerone offers services that transform complex network infrastructures into dynamic and easier to maintain systems. Zerone Technologies has expertise in deployment of total IT Infrastructure and Software on a turnkey basis.



PALM AV-ICN Intelligent Lighting Projection Demo



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GOREGAON (E), MUMBAI, INDIA



AKAI PROFESSIONAL UNVEILS THE NEW MPC STUDIO

Akai Professional, a manufacturer of music equipment for performers and producers has announced its newest music production system, the **MPC Studio**.

The new MPC Studio redefines tactile control with a hardware offering that intuitively delivers a modern and deep level of command over the music production process. Together with the MPC2 Desktop Software DAW for both Mac and PC, MPC Studio offers a total creation package for the serious modern beat-maker and music producer.

At the heart of MPC Studio are the 16 full-size pressure and velocity sensitive RGB-backlit pads with after touch. These pads optimize your performance to play and record patterns, notes, chords, and more with sound precision and an accurate visual display of velocity and pad groupings.

The new assignable Touch Strip will elevate any performance with invigorating expression. Add articulation to a string or guitar instrument, add modulation or pitch bend to a keyboard synth, control Note Repeat for hi-hats, snares, effects and much more. The assignable Touch Strip will quickly become your favorite tool to shape and sculpt your performances and productions.

The full color LCD ensures users will stay locked into every creative moment with vibrant visual feedback. Scroll through track names, plugin instrument presets, browse categories, monitor parameter values when dialing in effects, or trim and chop samples. The color LCD makes work more efficient by enabling you to keep your eyes on the controller, and your focus squarely on the music. Navigate sessions big and small with dedicated MPC Transport controls, complete with Locate buttons for time saving and precise location spotting.

The MPC2 Desktop Software DAW for Mac and PC is at the core of this MPC Studio system. The iconic MPC workflows and functions efficiently to create modern music production with precise audio sampling, lock-tight MPC groove, swing, and quantize, all with professional and MIDI sequencing and arranging. MPC2 software can also be run as a VST Plugin in any host DAW, opening a world of sonic possibilities.

Dive into the MPC plugin instruments, a collection that features 8 built-in plugin instrument engines with a wide selection of inspiring sound and textures. The AIR Hype Plugin Synthesizer features over 1500 presets including ambient pianos, plucked strings, atmospheric pads, stabbing synths and more. This inspiring synth is you're starting plugin instrument for any genre, any feel, and any sound. Alongside Hype are

a group of meticulously crafted hardware emulations; AIR Mellotron, Solina, and WayOutWare's Odyssey. These plugins faithfully reproduce some of the most iconic synth and keyboard sounds with a modern GUI and controls for near limitless sonic possibilities.

Stutter, Granulator, and more-all integrating perfectly with the assignable touch strip controller.

Akai Professional, Senior Product Manager **Dan Gill** stated, "We're



MPC Studio features an assignable Touch Strip with modern GUI for efficient production

Record, edit, and mix the perfect vocals with the AIR Vocal Insert Effects Plugin Suite. The collection features Vocal Tuner, a high-powered automatic vocal pitch correction tool, Vocal Doubler, a sound layering and doubling generator, as well as Vocal Harmonizer, an instant 4-part harmony processor. In addition, add and create exciting drops, builds, and transitions to any music project with a wide selection of insert effects plugins like AIR Half Speed,

truly excited to add the new MPC Studio to the MPC lineup. From beat makers to music creators and songwriters, the MPC Studio offers a serious array of modern production tools to create, produce, mix and master any production. The value of having the MPC2 Desktop Software DAW-which also works as a VST plugin inside any host DAW-makes this an incredibly robust system for any music maker."

ERICA SYNTHS UNLEASHES ITS DRUM MACHINE AND SYNTHESIZER: PERKONS

Erica Synths present- **PĒRKONS** (THUNDER) - a drum machine and synthesizer that redefines the approach to electronic rhythm synthesis - an instrument which bears the weight of a storm beneath its sturdy casing.

PĒRKONS features four sonically versatile hybrid voices (digital sound engine + analogue multimode filter with overdrive) and a sequencer with simultaneous control over all four percussion tracks.

Each voice has three sound engine modes, an HP/BP/LP filter, and 8 eight controls for nuanced sound design, including an internal analogue BBD FX send. All voice parameter settings can

be saved as KITS. To add dynamics to the performance, parameter automation is implemented and a modulation LFO can be assigned to all parameters.

For a real thunderstorm, integration with external gear is considered - each voice has a dedicated velocity-sensitive trigger input, individual output and FX send and return with 6.3mm jack sockets, along with extensive MIDI implementation. All voices are summed and run through a built-in optical compressor and master overdrive.

PĒRKONS with digital sound engine plus analogue multimode filter for Simultaneous control over tracks



DEAR REALITY DEBUTS DEARVR MIX MONITOR FOR IMMERSIVE AUDIO PRODUCTION

Dear Reality introduces its room virtualization to the stereo world. The dearVR MIX AAX/VST3/AU plugin turns any professional studio headphones into an ideal stereo mixing environment, placing the user in the sweet spot of carefully designed mix rooms – all through spatial audio technology. With dearVR MIX and the built-in Spatial Headphone Compensation (SHC) feature, audio

producers, artists and content creators can ensure that their stereo productions translate reliably to any sound system – regardless of production type or music genre. Whether you're in the studio or on the road, dearVR MIX lets you create outstanding sound experiences and assess positions,

stereo width, reverb, and low-end frequencies with total reliability, anytime and anywhere.

"When developing dearVR MIX, it was all about creating ultimate virtual acoustic environments for headphone mixing," says **Christian Sander**,

CEO of Dear Reality. "All the experience we have gained in the field of spatial audio comes together in one stellar plugin. dearVR MIX puts this technology in the hands of everyone."

The plugin offers three reference mix rooms with four selectable mono and stereo loudspeaker positions.

Furthermore, each mix room can be adapted to the user's taste by controlling the amount of diffusion and setting the perfect balance between overall coloration and localization based on the patented Clarity algorithm from **Sennheiser AMBEO**.

Together with dearVR MIX, Dear Reality is also introducing its Spatial Headphone Compensation (SHC) feature to all dearVR virtual monitoring plugins. The unique technology adapts the 44 most used professional studio headphones to the virtual mixing room, enabling a model-independent and stable simulation of a perfect acoustic environment. "By carefully compensating for the sound characteristics of individual headphones, dearVR MIX ensures the best binaural playback experience with the highest degree of out-of-head localization," explains Christian. Each model has been carefully optimized by Dear Reality and expert mastering engineers to create a target frequency curve that perfectly matches the room virtualization.



dearVR MIX Spatial Headphone Compensation features dearVR virtual monitoring plugins

AUDIX A231: CONDENSER MICROPHONE FOR VOCAL RECORDINGS AND MORE

Audix has announced its latest large-diaphragm condenser studio vocal microphone, the A231, sporting the distinctive gold-plated brass band made with SCX25A instrument mic – the **A231** opens new creative possibilities in the realm of lead and backing vocals, spoken word and voiceover applications, and acoustic instrument miking with its clean, powerful sound.

The A231 condenser microphone brings together multiple high-end design features in a uniquely professional and musical package. The gold-plated brass band around the circumference of the A231 hints at the revolutionary capsule within a 33-millimeter, true condenser featuring a precision-tensioned diaphragm with gold deposition all the way to its far edges. This produces an effective diaphragm area approximately 25 percent larger than that of a typical large-diaphragm condenser mic, and results in a sound that is neutral and rich at the same time. An exacting cardi-

oid pickup pattern offers a predictable proximity effect and exceptional off-axis rejection.

The capsule feeds circuitry that is innovative in its quietness and an active driven shield protects the signal path from interference and capacitive coupling. An internal shock mount virtually eliminates touch noise enabling the A231 to be used across a wide variety of environments – from the recording studio to the live stage – without the need for an unwieldy external shock mount.

The A231 capsule is suspended by the specially designed internal shock mount behind a double-woven steel alloy mesh grille and seated in precision-machined aluminum body. This elegant, yet compact mechanical form factor is not only beautiful but also practical – allowing the A231 to be optimally positioned in tight spaces where larger microphones may be too obtrusive.

When used on vocals, voiceover or spoken word, the A231 offers a rich tone that blends low-end power and high-end detail with a warm but controllable proximity effect and a

high end that is crystal-clear, yet free of artifacts like sibilance. The A231 goes beyond the performance of classic vocal mics to create a tonality all its own. A cardioid polar pattern with smooth off-axis response over a wide frequency range makes this sound effortless to obtain, regardless of mic placement.

As is the case with many premium vocal mics, the A231 also excels on acoustic instruments. With a massive 140 dB maximum SPL, the A231 can easily handle a kick drum at close range, yet its low 12 dBA equivalent noise level makes it whisper-quiet on more delicate sources like upright bass and strings. With no high-end harshness to mar the sound of cymbals, the A231 shines on drum overheads and spot miking as well. Its small size and lessened need for bulky shock mounts lets the engineer place it anywhere it sounds best.

With its warm character, sweet highs, flexible placement, low noise, and impressive 128 dB dynamic range, the Audix A231 excels at lead



A231 Diaphragm Condenser Mic with 128 dB dynamic range

and backing vocals, choir miking, and the voiceover requirements of podcasters and livestreaming artists who require a big step up in their audio quality. The A231 sets a new gold standard in vocal miking.

UNIVERSAL AUDIO REVEALS VOLT USB AUDIO INTERFACES

Universal Audio has introduced **Volt Audio Interfaces** available in India since October 2022. Featuring, a Vintage Mic Preamp mode, built-in 76 Compressor in the 76 models, and suite of included audio software, these all-new USB recording interfaces bring classic studio sound to Mac, PC, iPad, and iPhone users. Despite them being priced at the entry-level, they nonetheless incorporate many of the features and technology from their flagship devices.

There are five new interfaces in total: Volt 1, Volt 2, Volt 176, Volt 276, and Volt 476. All those with the '76' appendix feature a built-in 1176-style compressor on their front-panel inputs, allowing you to capture the sound of UREI/UA's classic FET compressor when recording. The '76 compressor offers a choice of three presets, including the self-explanatory Vocal and Guitar modes, plus a Fast mode for more assertive dynamic control.

Common to all the newcomers is UA's proprietary Vintage Mic Preamp mode. At the flick of a switch, users can engage circuitry in the Volt preamps that emulates the company's classic 610 valve console, which UA says adds a "rich, full sound" to vocals and instruments.

Every Volt interface also offers a pair of 5-pin MIDI I/O ports and a



Volt Audio Interfaces with the self-explanatory Vocal and Fast mode for dynamic control

headphone out with dedicated level control. Also, all feature a basic monitor control plus a zero-latency direct monitoring switch, with the top-of-the-range 476 model adding monitor source selection, mono summing, and speaker switching too. All but that model can also be bus-powered, for truly mobile operation.

All Volt interfaces feature a Vintage Mic Preamp mode inspired by the mic/line preamp in UA's 610 tube console. A UA exclusive, Volt's tube emulation circuitry allows users to dial in rich, full sound on vocals and instruments.

Volt 76 models feature a built-in 76 Compressor — an innovative analog circuit based on UA's iconic 1176 —

with easy-to-use presets for adding clarity and punch to voice, guitar, and other sources.

After registering Volt via the companion app, UA Connect, users can download the following audio production software, instruments, and plug-in bundles from industry-leading brands.

TRANS AUDIO DEBUTS A FOUR-CHANNEL MICROPHONE PREAMPLIFIER WITH JENSEN INPUT & OUTPUT TRANSFORMERS

TransAudio Group, has announced the new **Daking Mic Pre 4T**. The Daking Mic Pre One and Mic Pre II/T, the Mic Pre 4T adds four variable high-pass filters to four high-gain/high headroom Mic Pres in a single rack space unit. Each preamp channel offers the full complement of controls including 75dB of gain, +24dB of headroom, variable high-pass filter (from 10-200Hz), front-panel DI, 48V phantom power, phase invert and a 20dB pad along with a high-resolution 20-segment LED meter and +25dB

indicator. The Daking Mic Pre 4T is a one-of-a-kind combination of soulful circuitry and proprietary problem-solving features.

The Daking Mic Pre 4T will elevate any recording offering unique solutions to common problems. The "low-distortion" Jensen input and output transformers offer more linear low-end performance under brutal dynamic conditions. Daking's own variable high-pass filter dials out the low-frequency mud that can be subsonic and will decrease

available headroom. Built in the USA, Daking uses only high-end parts like Jensen input and output transformers in a high-end design using all-discrete transistor Class A circuitry. Unusually high 24dB of headroom and easy to read twenty segment meters make proper gain staging easy and forgiving under a wider array of conditions.

Designed for the widest possible range of inputs, from vintage, low-gain ribbons, to high-gain modern condensers, and instruments via the

DI. Avoiding clipping and distortion is critical for error free capture of that one magical performance that may never come again. Daking's variable low pass filters make it possible to have a different low-filter setting on each of the four input channels, preventing unwanted over saturation of the transformer. The Instrument DI passes through the ultra linear Jensen output transformer for one of the best DI's around. The Daking Mic Pre 4T is the one preamp that's right for many different sources, rather than the

costly "different preamps for different sources" approach.



Daking Mic Pre 4T with low pass filters prevents unwanted over saturation of the transformer

AUSTRIAN AUDIO RELEASES HI-X65 PROFESSIONAL HEADPHONES FOR MIXING AND MASTERING

The **Austrian Audio Hi-X65** is the company's 1 open-back 44mm dynamic driver headphones designed for mixing and mastering. Launched in May 2021 Available in India from July 2021.

It utilizes pretty much the same technology as the Hi-X55, except that they have heavily retuned the drivers to suit its purpose. It still features a 44mm dynamic driver, which the team at Austrian Audio has found to be the optimal driver size to move the maximum amount of air while eliminating any driver "wobble".

The dynamic driver is powered by a ring magnet and a copper-clad aluminum voice coil. This keeps the weight of the driver down, ensuring that it can quickly change its direction, providing a responsive impulse action. These characteristics allow the Hi-X65 to convey a clear and powerful sound through the entire frequency range.

Similar to the Hi-X55, the Hi-X65

also utilizes a single-sided cable system, where a detachable cable is terminated in a 2.5mm bayonet system is on the left side.

The single-sided cable system necessitates having some cables going out of the earcups on either side, fortunately, Austrian Audio found a way to keep the wires tucked inside the earcups to prevent accidents. Each earcup has removable earpads, that can easily be replaced by the user. Inside the earpads, there are left and right markings that show which earcup is for which ear. The earpads are secured using 12 clips, so it remains secure throughout usage.

However, as of this writing, the earpads specifically for the Hi-X65 are not yet available on Austrian Audio's website, since they are different from the ones on the Hi-X55. Given the size of the earcups, one would typically assume that the Hi-X65 would have small earpad holes. However, the Hi-X65 has thin-walled earpads, which gives it larger earpad holes that ensure that there is enough space inside the earcups to fit

most ear sizes.

Austrian Audio has taken much care to ensure that the Hi-X65 remains comfortable for longer listening sessions. The cushions on the top of the headband and the earcups are soft enough that no hard parts are pressed against the skin, but the earpads are firm enough to ensure that the headphone won't fall off the head that easily.

Being an open-back design, the Hi-X65 doesn't isolate particularly well. Sound tends to leak in quite a bit, but not as much as most other open-back headphones. However, the earpads are designed to give a proper seal around the ears so that sound won't leak through the earpads.



Hi-X65 encompassing ring magnet and copper-clad aluminum voice coil for responsive impulse action

RME LAUNCHES FIREFACE UCX II USB AUDIO INTERFACE

Fort Lauderdale, Marking the company's 25th anniversary on June 7 2021, **RME** has launched the **Fireface UCX II**, featuring 40 I/O channels in a compact half-rack size.

The unit offers up to 20 recording and 20 playback channels, SteadyClock FS, built-in parametric EQ, USB direct recording and full stand-alone functionality.



Fireface UCX II incorporated with TotalMix FX DSP mixer offering routing and monitoring options

The Fireface UCX II houses two mic/line preamps in XLR combo configuration on the front panel, along with two digitally controlled line/instrument inputs, followed by a headphone jack, various control buttons, a display, and the main volume knob. At the rear is a set of 10 analog balanced line inputs and outputs, MIDI I/O, ADAT I/O, AES/EBU and SPDIF I/O, USB 2.0 as well as a switchable word clock I/O.

The onboard digital DUREC (Direct USB Recording) functionality allows any input or output of the Fireface UCX II to be recorded directly to a USB storage device. This means DUREC uses the integrated DSP which provides

stand-alone operation without the need for a computer. The fields of potential applications include stand-alone field recordings, live and rehearsal recordings, or playback of live recordings for virtual soundchecks.

SteadyClock FS on the unit is the latest clock and jitter rejection technology from RME. Based on a femtosecond clock, SteadyClock FS reportedly reduces jitter when converting from and to analog over digital formats.

The unit also comes with the TotalMix FX DSP mixer offering routing and monitoring options, as well as the DIGICheck analyzer allowing it to measure and analyze the digital data feed in both directions.



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FOCAL EVOLVES ITS ALPHA RANGE WITH TWO EVO STUDIO MONITORS

Focal evolves its Alpha range with new features, new technologies, and new design: The **Alpha 50 Evo** and **Alpha 65 Evo studio monitors**, launched in March 2021, are available in India from September 2021. The monitors offer high performance at a price unrivaled on their market, providing ultra-powerful professional tools to more people than ever.

Dedicated to music creation and all reproduction, the Alpha 50 Evo and Alpha 65 Evo guarantee excellent sound coherence, no matter where you're listening. For renewed performance, Focal has chosen an aluminum inverted dome tweeter to ensure vast sound dispersion, as well as the Slatefiber cone. This recycled carbon cone, produced exclusively by the French brand at its Saint-Étienne workshops, has been chosen for its neutrality and dynamics. Focal is constantly renewing its offering, drawing on its acoustics expertise of over 40 years and its innovation capacity. This is demon-

strated by the new large laminar port, which limits distortion noise.

Evo for Evolution. The Alpha Evo monitors boast a new 1/4" (6.35mm)

TRS jack input—in addition to the XLR and RCA analog inputs—, a disengage-able automatic standby mode and inserts for wall and ceiling fastening: a truly versatile range (Mix, Mastering, DJ, Broadcast). In terms of

amplification, the monitors are each equipped with two class D amplifiers. The high current capacity of these allows full control of the signal dynamics. It also allows high volumes to be reached without distortion. Each of the loudspeakers picks up the smallest details in the mix, across all musical styles.

The monitors feature a 5/8" (15mm) - thick MDF cabinet and incorporate internal braces to ensure it is highly robust, even at the highest levels of acoustic pressure. The bass-reflex design has been used to ensure easy acoustic integration in even the most cramped spaces.

In terms of aesthetics, the traditional cube monitor shape makes way for rounded contours. The side panels create a sophisticated, robust, and modern design which contributes to excellent acoustics and a unique and harmonious signature across the collections.



Alpha range with an aluminum inverted dome tweeter to safeguard vast sound dispersion

FINNISH SPEAKER LAUNCHES AMPLIFIER FOR MULTI-CHANNEL AUDIO PRODUCTION

In response to the rapidly growing immersive audio market and proliferation of Dolby Atmos format in film, television, gaming, and music production, **Finnish loudspeaker** manufacturer Amphon has announced the launch of **Amp400.8** – an amplifier

designed specifically for the needs of multi-channel workflows. By combining the latest advanced Class-D technology and in-house designed proprietary buffer stage, Amp400.8 offers up to 410W of clean, dynamic power for up to 8 identical channels, making it the ideal partner for any

immersive audio production setup.

Amphon has built its brand reputation by establishing its approach and focusing only on results. Amphon has built its brand reputation by establishing its approach and focusing only on results. Amphon's passive monitor design, clean translation, imaging, and fine time/ phase coherence qualities create immersive and multi-channel setups that provide pinpoint accuracy for making the 3-D grid.

"Atmos is naturally of great interest to us, and we have been digging into it deeply. It has the potential of being something very interesting to the end customer, but only if it is done right. We strongly believe that the only way to utilize the considerable, often updateable DSP processing power of the latest immersive monitors controllers, is to keep the monitoring chain as transparent as possible. Therefore, it should be as free of any unnecessary additional DSP or other electrical circuitry. As the number of channels grow, even the slightest shortcomings in monitoring lead to lack of cohesion, which is clearly audible through speakers as well as headphones," said, **Anssi Hyvonen**, Amphon, CEO.

In addition to providing the speed,

control, and feel inherent to all Amphon amplifiers, Amp400.8's Class-D amplifier provides coherence between all its 8 channels, giving it consistent power and performance for any multi-channel setup – be it immersive sound for 7.1.4, fully surround sound 5.1, or multiple separate stereo systems. Amp400.8 features Neutrik XLR and Speakon connectors for each channel providing easy and secure connectivity across the system. Although optimized for use with Amphon's family of monitors, it also provides excellent results with a wide range of other passive speakers.

"Demand for Amphon equipped immersive rooms has virtually exploded during the past couple of months. The first Dolby certified Atmos room in Italy was installed a few months ago, and the only mixing/mastering Atmos room in Finland with the Dolby codec has just become operational during summer in Helsinki. In addition, there are multiple rooms being built across the globe and we are excited to witness the results these talented engineers create with our products." says Anssi.



Amp400.8 amplifier incorporated with Class-D technology that provides consistent power and performance for any multi-channel setup



Eyte deploys an end-to-end AV and Acoustic setup that seamlessly complements the environment

L&T's Corporate office gets a Digitally Savvy Tech Makeover

Eyte Technologies Crafts a Versatile AV and Acoustic Setup at L&T's AM Naik Tower, Powai, Mumbai

L&T group envisioned a Tech-savvy Corporate office for their Powai Office that would enhance the synergy and boost the corporate functions. This feature explores how the Mumbai-based consultancy firm Eyte Technologies with System Integrator, Plus Business Machines deployed a comprehensive AV setup to achieve the client's vision.

When the L&T group envisioned a smart, digitally savvy, and green corporate office tower located in Powai, Mumbai, to commemorate 55 years of service to the chairman of the L&T group Mr. AM Naik they reached out to **Eyte Technologies**. As an AV and Acoustics consultant, Eyte was respon-

sible for the end-to-end technological implementation ensuring the vision of this project stayed intact throughout. After conducting a successful tender bid for the implementation of this project, **Plus Business Machines** a well-known System Integrator in the Indian AV industry were onboarded for this task.

Eyte Technologies with its decades of combined experience in this domain were brought in to pilot this project as Technology Consultants. The project incharge from EYTE was **Arif Patil**.

Larsen and Toubro (L&T) is one of the largest conglomerates in India, Headquartered in Mumbai, with a reach of over 50 countries worldwide. The company caters its services across Technology, Engineering, Construction, and Manufacturing lines of businesses while sustaining leadership over eight decades in multiple industries.

Project Highlight

AM Naik Tower, located in Powai, Mumbai, is an ambitious project led by the L&T group with a total built-up area of 1.03 million sq.ft. The building can host 4500 employees and includes modern amenities such as a 300-seater

hi-tech multipurpose hall, 800-seater food court, well-equipped gymnasium, digital library, immersive training rooms, and a special lounge.

The group visualized a technologically advanced space to execute smart solutions across multiple business lines. Eyte had to design an AV architect solution that incorporated modern and cutting-edge technology to cater to the client's needs.

Challenges:

Designing an intricate AV solution for an enormous project like this requires meticulous attention to detail with no room for error. "At Eyte, we always make sure that the design on paper is reflected on site accurately. We prepared snag lists to keep track of all the shortcomings that develop on-site and addressed

them promptly. We also acknowledged the climate in 2021 and the restriction that ascended at every turn in the project, which could have derailed our timeline, but, with proper planning and synergy across teams, we made it," said **Abdul Waheed**, Managing Director, Eyte Technologies.

While implementing the design process of office spaces with several standards and bespoke rooms, many major and minor setbacks arise. The designs for standard rooms can be easily

repeated over multiple rooms with little to no modification, whereas bespoke room designs are custom designed specifically for a predefined application. Bespoke rooms often have challenges like configuration errors, programming errors, site condition hindrances.

"Eyte tackles these forthcoming issues by having concerned teams on the same page while resolving any issues that pop up during implementation, which is the key to a successful install," said Abdul.

Solution:

AM Naik Tower is a 15-story building divided by the client into various sections, amenity floors, experience center, typical floor, and the Director Floor. Each floor was significant for the implementation of a comprehensive AV solution.

The Amenity floors consisted of several meeting rooms of 6-8 PAX with and without VC capabilities. A combining room with collapsible walls and amenities for the employees included a Gymnasium, Medical zone, Creche, Library, and a Cafeteria.

The Experience center included a 14 PAX meeting room and a Multipurpose room, both with VC capabilities. The typical floors consisted mainly of Meeting and Conference rooms ranging from 6-Seater to 30-Seater large conference rooms.

The Director Floor consists of 8 PAX meeting rooms, 13 PAX conference rooms, and a 30 PAX Board room. Eyte designed the respective rooms with technologies that best suit these environments to provide a seamless

Technological interaction for the end-users.

"At Eyte, we believe that technology should not interfere with the user's action but enable them to make better decisions, these rooms were designed to maximize efficiency and reliability for the duration of its operation, allowing for a better ROI," said Abdul.

Eyte deployed equipment that provides maximum reliability and longevity with minimal downtime, procured from AV brands in the business. Panasonic, LG, Datapath, Brightsign, Crestron, Barco, Polycom, Sennheiser, Clearone, Apart, Draper, Lumens, Kramer, and Bose were the OEMs used in this project.

The Smaller meeting rooms without VC capabilities include a Display, Wired Presentation, Room Scheduling, and Audio-Conferencing capabilities. Meeting rooms that include VC capabilities include a Video Conferencing device in addition to the remaining capabilities. Connecting and Multipurpose Rooms with Collapsible Walls include multiple scenarios for individual and combined modes with Wired / Wireless presentation for a large screen projection screen with Laser Projectors, Speech and Audio Reinforcements, Room Scheduling, AV room Automation, and a Video Conferencing System.

Sessions in these rooms can also be recorded and streamed using dedicated devices for this purpose. Amenity rooms like Gymnasium include an Audio System, Digital signage player

and a 4K Display. The Entrance reception area features a 2x2 Video Wall, Digital Signage, and Way finder digital kiosk for visitors to navigate around the campus. Digital signage players paired with Displays are placed in rooms and lobby areas to enable streaming and promote custom content.

"The brief of this project was to create an experience that was modern and state-of-the-art. As a team, we delivered on that promise right from the project's initial phase till the end was our goal to deliver an experience that would reflect the legacy of L&T's vision and leadership. We would like to thank our client for providing us with this wonderful opportunity. To see it functional, we can only imagine the boost it would have provided to the office morale, and we are excited to see what the future holds for this new infrastructure, now and beyond," concludes Abdul.

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Eyte installs an immersive AV room Automation setup for an efficient conferencing experience.

AV OVER IP ENCODERS & DECODERS

AV over IP (AV/IP) refers to standard network equipment to transmit and switch video and audio. The professional AV space has gradually started featuring IP-based infrastructure in production and broadcast studios to encompass internet-based live or on-demand video streaming to professional video distribution infrastructures. The benefit of IP networks offers scalability to support any audio and video formats, with multichannel distribution over LAN/WAN, cloud, and more. This month's product focus features a lineup of AV over IP Encoders and Decoders. The feature is intended as a guide and does not endorse any of the featured products.

ARISTA CORPORATION - RS-124-31 SERIES IP FLASH CASTER

ARISTA's IP Flash Caster family introduces a new dynamic to the pro-AV industry by letting installers and System Integrators replace proprietary AV matrix switches with off-the-shelf Ethernet switches with **IP Flash Caster RS-124-31** that deliver higher performance, flexibility, and scalability.

The AV over IP product line that can be configured with either dual SDVoE encoders / decoders with Copper or Fiber interface and a variety of different video signal format inputs and outputs. The IP Flash Caster RS-124-31 Series provides numerous configurations and functionalities to meet changing Pro AV requirements. ARISTA's IP Flash Caster is an end-to-end system for AV and KVM signal extension, IP-based switching, video wall and multi-view functionality. The product line provides unique support for HDMI 2.0a, HDR, high-fidelity video scaling, windowing and audio down-mixing, broadcast quality scaling, visually indistinguishable light-compression, multi-source video compositing, video splitting, color space conversion, framerate conversion, audio embedding / de-embedding, audio down-mixing and audio re-sampling. Attributes common to all products in the RS-124-31 Series include broadcast quality scaling, adaptive clock re-synchronization, colorspace conversion, frame-rate conversion, a variety of highly flexible audio capabilities, Multi-view, PIP, and PAP capabilities, video wall processing, USB, RS-232, IR Extension and Switching capability, the ability to provide 1GbE Ethernet over 10GbE Network, and more.



ATLONA - AT-OMNI-512 AV ENCODER



A networked AV encoder with two independent channels of encoding for two HDMI sources up to UHD 60 Hz and HDR (High Dynamic Range), plus embedded audio and RS-232 or IR control pass-through. It is part of the OmniStream R-Type Series, designed for high performance, flexible distribution of AV over standard, off-the-shelf Gigabit Ethernet switches in light commercial audiovisual applications. The OmniStream 512 is HDCP 2.2 compliant and ideal for the latest Ultra High-Definition and HDR sources. It features advanced high-quality, VC-2 visually lossless video compression, optimized for motion video content. The **Atlona OmniStream 512** achieves

extremely low, sub-frame latency when paired with OmniStream AV decoders. This dual-channel encoder is housed in a half-width rack enclosure with front-to-back air flow, and is ideal for high-density, compact installation in a centralized equipment location. OmniStream AV over IP systems are remarkably easy to set up and manage. Atlona Management System (AMS) 2.0 features automatic network device discovery, plus an intuitive web-based GUI that lets you configure virtual routing for AV, control, and data over the network – just as easily as you would with conventional AV matrix switching. AMS also streamlines and simplifies management of OmniStream systems through continuous system monitoring, notifications and alerts, event logging, multi-device configuration and backup, automated firmware updates, remote device control, and more. Multi-room or multi-zone AV systems – OmniStream R-Type enables cost-effective system design, allowing the connection of any number of sources to any number of displays. OmniStream delivers equal performance over new or legacy network cable infrastructure, including CAT 5e.

BLACK BOX - MCX GEN 2 CONTROLLER

Enabling complete control over the **MCX system**, the controller simplifies setup and management of MCX AVoIP systems, facilitates full asset tracking of devices with real-time status monitoring and offers strong security to ensure continual protection of data and content. The Black Box MCX system takes advantage of software-defined video over Ethernet (SDVoE) and modern 10 GbE infrastructure to accelerate consolidation of AV and data on a single IT network. MCX enables users to leverage existing infrastructure for delivery of better-quality audio and video. The new MCX Gen 2 Controller streamlines setup by accepting CSV imports and allowing users to assign icons to source and display endpoints for easy identification. Users can create browser-based interfaces to control essential functions for the control matrix, video wall and multiview functions as well as external devices, including displays and media players. The controller also boasts flexible EDID handling with full reporting of monitor information. A PIN-coded QR system supports creation of no-touch UIs, making setup of touch panels and control boards both simple and cost-free.



Status reports include real-time data on source and display operations, as well as encoder/decoder operations. The controller supports granular testing of encoder/decoder functionality, as well as any attached IR or RS-232 devices. Extensive firmware management capabilities include reboot and reset options for individual endpoints and groups of endpoints. With options for automating events and scheduling present commands, users can minimize the need for user intervention and increase overall efficiency in distribution and management. Individually encrypted encoder/decoder pairings enhance protection against unauthorized content viewing, and permission settings offer control over routing for further security.

KEY DIGITAL-KD-VW4X4PRO4K 4K



The network-based **KD-VW4x4Pro4K** kit includes four encoders, four decoders, and an engineer-tested pre-configured Linksys LGS308MP network switch. The kit is shipped mounted on a shelf with pre-installed CAT6A patch cables. The Wi-Fi access point connectivity option includes a dual LAN port of included KD-IP-922ENC enabling connection of a Wi-Fi router or access points for control from KD-App, Compass Control Pro, or third-party control systems.

The KD-VW4x4Pro4K offers audio de-embedding with pre-amp functionality for volume, muting control, EQ, and delay. The audio de-embed and pre-amp features are made possible with the inclusion of a single KD-IP922 encoder, which allows the integrator to choose any one source for de-embedding.

While the KD-VW4x4Pro4K ships most frequently for installations of 2x2 video walls, the custom pre-configuration offered by the team at Key Digital allows integrators to specify any four-panel video wall orientation. Video wall options include four, three, or two horizontal displays ideal for menu boards and four, three, or two vertical displays ideal for digital signage.

The KD-VW4x4Pro4K provides a panel-flip feature and bezel adjustment. With panel-flip, integrators may install their top row of televisions upside down to reduce the gap in the middle of the video wall due to the thick bezel on the bottom of consumer panels. Bezel compensation can be adjusted to fine-tune the video wall to fit different screen types. KD-VW4x4Pro4K joins a suite of Key Digital IP controllable products that are now app-ready. KD-App is downloadable for free from the App Store and allows installers and end-users to switch inputs and control video wall management via a finger-drag motion.

PURELINK-VIP-NET-0802PP-1G

The Media Hub is a new generation CAT/Fiber switch purpose-designed for AV over IP applications. Enhancing performance and simplifying the management of IP video matrix switching systems, the **VIP-NET-0802-1G** features Jumbo Frames and IGMP v1/v2/v3 Snooping. The 8 RJ45 ports and 2 flexible RJ45/SFP ports provided by VIP-NET-0802PP-1G make a great fit for applications that do not require high port counts provided in our 24 and 48 port models.

The VIP-NET-0802PP-1G provides an extremely rugged high-quality solution with PoE+ for many markets, such as House of Worship, Huddle Rooms, Small. The Media Hub is designed for Video Over IP, Plug, and Payout of the box. A Layer 2 with Layer 3 Static Routing and PoE+. VIP-NET-0802-1G comes with Rack Ears Available for hassle-free Mounting.



WYRESTORM-NHD-110-TX AV ENCODER

The **NHD-110-TX AV ENCODER** is the powerful 110 series of NetworkHD AV over IP components. The NetworkHD 110 series takes the award-winning 100 series and elevates to a new level. The 110 series components support both H.264 and H.265 video encoding/decoding. With H.265, video transmissions look better than ever and use up to 6x less bandwidth. AV streams are fully secure over the network using AES 128-bit encryption methods, ensuring any sensitive data cannot be maliciously accessed. The series retains the powerful video wall and Multiview processing found in the 100/200 series. The 110

series does one better by eliminating the need for a dedicated video wall processing decoder as the standard NHD-110-RX natively has this ability. The 100, 110 and 200 series components are interoperable, making retrofit installs a breeze and maintains compatibility with the NHD-250-RX for Multiview. The 110 Series can operate in either a Unicast or Multicast mode. Multicast mode is the traditional method and is suggested for larger deployments of 80+ devices. Unicast mode however is great for small system and does not require a Layer 2 switch or support for IGMP Snooping. The NetworkHD 110 series support AES 128-bit AV encryption over the network. Data sent from an NHD-110-TX is encapsulated using advanced methods to ensure that sensitive or private data cannot be accessed by 3rd-parties. USB routing allows for the 110 series to fit into K/M applications. USB can be routed between all RXs and TXs. This allows for a single USB host device to have access to potentially hundreds of individual USB device endpoints.



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LUMENS - OIP SERIES

The **OIP series** delivers visually lossless 4K/1080p AV signals with ultra-low latency over long distances through standard IP networks. The solutions are ideal for a wide range of environments, such as sports bars, casinos, sports arenas, and control rooms, etc.

The OIP-D50E/D50D 4K AVoIP encoder and decoder delivers up to 4K@30Hz 4:4:4 high video quality signal with no visible delay. With Lumens powerful visually lossless compression technology, the OIP-D50 series enables shrinking 4K video size without losing video quality at a fast speed, while the OIP-D40E/D40D encoder and decoder support a resolution up to 1080p. With an OIP-D50C controller, users can manage all encoders and decoders remotely in one place. OIP-D50C allows users to instantly monitor and control video distribution via the user-friendly Web GUI. Simply drag and drop the video source to display, and you can instantly change content that suits your video presentation needs.

Through the OIP-D50C, users can easily set up video walls, which dramatically enhances the visual experience. Signal transmitting via IP packets gives users significantly more flexibility and scalability for integration. Lumens innovative AV over IP solution is designed to address the challenges that system integrators encounter when installing equipment and provide a high-efficiency, flexible and cost-effective solution.



PIONEER DJ LAUNCHES THE DM-50D SPEAKERS FOR PRO AND HOME USE

AlphaTheta Corporation has announced the latest model in the range of desktop monitor systems from its **Pioneer DJ** brand: the **5-inch DM-50D**. The new speaker design combines key elements from the popular DM-40 unit with new components and features to create a more powerful and higher quality sound. Sold in black or white pairs, the speakers are easy to set up, tune, and use – making them ideal for a variety of purposes. Whether you want to play DJ sets or make your own music at home, or regularly switch between the two, the DM-50D system offers the perfect sound.

The DM-50D speakers deliver a balanced, bass sound and can pump out extra

power when required, its loaded with a new Class D amplifier and a 5-inch woofer in each unit. High frequencies are clearer too, due to the advanced new design of the DECO convex diffusers. To create tracks simply switch the speaker to change from DJ mode

to Production mode and the DSP settings will automatically adjust to create sound for each application.

It can connect DJ setup or home studio to the RCA, mini jack, and newly added TRS input terminals on the DM-50D speakers. The volume knob and

headphones socket are on the front panel for quick connection and level control.

The DM-40 model comes in the updated design of the DECO convex diffusers which help deliver crystal-clear high frequencies and 3D stereo sound in every direction. The curved front edges provide maximum rigidity and minimum resonance for clean audio at any volume level.

With RCA, mini jack, and the newly added TRS input terminals, it can connect different kinds of gear such as DJ controllers and mixers, or the laptop or soundcard for producing your own music. Connecting and disconnecting headphones is simple via the socket on the front panel of the DM-50D. There's no need to reach around the back of the speakers to adjust the volume either, as the level knob is also right in front of you.



The DM-50D speaker incorporated with advanced DECO convex diffusers that deliver high frequencies are clearer

HERCULES DEBUTS DJ CONTROLLER DESIGNED FOR SMARTPHONES

Hercules has launched a new portable controller designed to use with smartphones. The new **DJControl Mix** is purpose-built for use with Algoriddim's

cue and pitch fader to control the speed of your tracks.

The **DJControl Mix** works wirelessly over Bluetooth and can quickly connect and start mixing. There is a cable includ-

ed to split the signal if you want to mix with headphones.

Music can be sourced from the smartphone's own internal storage or from any streaming service supported by Djay including SoundCloud Go, Beatport LINK, TIDAL and more. It also comes with a smartphone stand so it can easily see what is going on the screen. The handheld DJControl Mix slips into a backpack to go anywhere.

popular djay app on iOS and Android, with miniature size and portability at its heart. Powered over USB or built-in batteries, the DJControl Mix features two small jogs, a crossfader, two volume knobs for each channel, four performance pads for Hot Cues and triggering samples, transport controls for play, pause and

The **DJControl Mix** features four performance pads for Hot Cues and triggering samples that control the speed of the tracks.



SUNBURN FESTIVAL VAGATOR STANDS CANCELLED

Percept Live has clarified that an initial application was made to host Sunburn Festival at Vagator in Goa at a similar mega scale as it used to take place earlier. However, under advice from the Government of Goa, it was decided to not pursue this mega festival any further due to the Covid-19 pandemic.

Though the Sunburn mega festival is not taking place in Goa this year, bearing in mind the improving situation and with nightlife & events slowly making a come-back, Percept has tied up with Hilltop, Vagator to produce a smaller limited capacity Sunburn event from 27-29th Dec at Hilltop, Vagator, Goa.

This event is being organized with the support of the requisite authorities. The planning for the same is currently underway.

PROLIGHTS PRESENTS ASTRA WASH7PIXIP

Prolights has introduced the **Astra Wash7PixIP**, a new IP-rated moving-wash with the same features and characteristics as the newly released Astra Wash7Pix.

The Astra Wash7PixIP contains 7 x RGBW 40-Watt LED emitters, outputting upwards of 4,000 lumens, with a default 8,000K cool-white beam or 6,000K in studio mode. The fixture includes the same proprietary front lens and glass lighting rods as the indoor version and protected with a coating technology that helps increase the brightness, protecting lenses from surface scratches and adding anti-static properties to avoid dust deposits.

The Astra Wash7PixIP has a rugged and completely sealed chassis made of aluminum alloy, with internal components treated with an IP coating, guaranteeing an IP65 water and dust-tight design for lasting outdoor applications.

Since it's completely sealed, the fixture doesn't require regular internal cleaning or service. However, users have access to the modular and easily accessible internal parts and whereupon assembled, its sealing can be easily checked with the PROLIGHTS IP tester.

This fixture also includes a zoom range from 4° to 56°, enabling designers to create very narrow beam effects and wide wash spreads. Its augmented pixel performance supports individual pixel control through DMX or ethernet-based protocols, or with the built-in pixel macros, personalized by the user. Dimmer and color parameters are integrated with 16-bit resolution, and CCT channels can be set to any precise white point and deviated by the tint channel on a +/- green chromatic coordinates. The tungsten emulation mode provides an incandescent tone of red shift when dimming. There is also a dedicated cross-fade channel to blend the white and color macros.



Astra Wash7PixIP with coating technology that prevents surface scratches

ELATION DEBUTS PROTEUS RAYZOR EDGE AND BLADE

The **Proteus Rayzor Edge** and **Proteus Rayzor Blade** are a striking visual combination of linear wash, high-intensity strobe line and SparkLED FX inside a compact IP65 linear fixture design. Envisioned to provide the designer unlimited creative control of powerful colors and high-powered strobe effects from a single unit, they allow unlimited placement in any outdoor and indoor environment, greatly enhancing their capabilities. Protected from dust and water ingress, they are part of Elation's industry-leading Proteus range of

outdoor luminaires, matching colors, and SparkLED effects with the popular Proteus Rayzor 760.

Driven by 6 or 12 independently controlled 60W RGBW LEDs, **Proteus Rayzor Edge** and **Blade** provide a powerful beam that stands out on any stage. The oversized front lenses create a large visual surface on the fixture that is enhanced by the exclusive patent-pending SparkLED technology. SparkLED consists of individual white LEDs strategically placed inside the lens

itself to create a unique additional layer, allowing designers access to a new and innovative way of creating interest on stage. Proteus Rayzor fixtures offer this never-seen-before style of internal lens illumination for depth and visual impact. The patented SparkLEDs are controllable by the lighting console or driven by a multitude of internal FX patterns.

In addition to its powerful wash and

SparkLED effects, the Proteus Rayzor Edge and Blade emphasize the RGBW lenses with two seamless high-intensity strobe lines with a total of up to 256 cool white strobe LED dots. Flanking the Rayzor lenses across the entire length of the fixture, these dual strobe arrays offer incredible visual effects with a multitude of integrated FX or precise pixel control from the lighting console.

These fixtures allow for impactful tilt sweep motions, which are visually striking across its large front surface, allowing them to position or move dynamically during a show. With a wide zoom range from 5 to 45 degrees, they provide intense and well-defined mid-air beams and light curtains up to 12,500 lumens, as well as an exceptionally wide and even wash coverage, making them the perfect tools for stage washes, mid-air effects, or audience blinders, even in adverse outdoor conditions.

These two new members in the Proteus family once more showcase Elation's leadership in IP65 luminaires. Their innovative design and carefully curated creative capabilities are a designer's dream to create visual interest and powerful washes out of a single weatherproof fixture.



Proteus Rayzor Edge & Proteus Rayzor Blade combination of linear wash, high-intensity strobe line and SparkLED FX inside a compact IP65 linear fixture design

ADJ EXPANDS PRODUCT PORTFOLIO WITH INNOVATIVE PRODUCT RELEASES

ADJ launches a series of product that include a new flagship for the **Focus Series** of led-powered moving heads, the focus profile, as well as a **Color-Mixing Fresnel Fixture** which delivers a high CRI from an extremely efficient led light engine, the **Encore FR Pro Color**.

The brightest and most feature-rich Focus Series fixture is a professional caliber automated profile luminaire designed for theatrical, concert touring and event production applications. It features a potent 400W LED engine, with a native color temperature of 6,700K and a CRI more than 70, coupled with an exhaustive collection of beam-shaping tools. These include four, independently controllable, rotating framing shutter blades, which can be used to precisely shape the light output. The unit offers full CMY color mixing together with variable CTO color temperature correction and an additional color wheel loaded with 6 dichroic filters comprised of four primaries together with CTB and CRI filters. Two separate Gobo wheels feature 7 replaceable, indexed-rotating GOBOS, and 8 static GOBOS, respectively, while two bi-directional rotating prisms (3-facet and 6-facet) allow for the creation of a wide variety of aerial effects. Motorized focus, iris and zoom (7 – 45-degrees) together with a replaceable (medium) frost filter and an animation wheel complete the lineup of features offered

by this powerful and versatile luminaire.

The **Encore FR Pro Color** is a versatile Fresnel fixture which combines motorized focus with enhanced color mixing potential and a CRI of over 94. Positioned behind a 7" Fresnel lens, the unit's powerful 400-Watt light source combines red, green, blue, amber, cyan and lime LED chips to allow the creation of a huge gamut of colors as well as white light with tunable color temperature between 2400K and 8500K. To aid with programming in a variety of different situations, the fixture offers a virtual CMY color mixing mode as well as 62 preset white color temperatures, 60 virtual color wheel presets and 64 RGBA color macros, in addition to full independent color mixing control over the LED source's six primary colors. The fixture offers motorized zoom, with a variable beam angle of between 7 and 44-degrees and is supplied with a set of 4-leaf rotating barn doors which can be used to alter the shape of the light output.

The new Encore Lime Par Series of IP65-rated LED wash fixtures feature 20W RGBL (red, green, blue, lime) color mixing LEDs that offer sensational brightness with a very high CRI. Offering a concise 10-degree beam angle, robust all-metal construction and IP65 'all weather' rating, these fixtures are ideal for a wide variety of event and concert lighting applications. They



The focus profile with four rotating shutters plus shape rotation

feature a versatile scissor yoke which can be used either as a floor stand or hanging bracket as well as 64 built-in color macros, 5 preset white color temperatures and linear color temperature control (between 2700K and 6500K) to aid with quick setup and programming.

Finally, ADJ's popular Vision Series of LED video panels has been expanded with the introduction of a new modular Ground Stack System. The **VSGSB** Ground Support Base, **VSGSLT** Ground Support Ladder Truss and **VSGSCSB** Clamp Support Bar can be used to cre-

ate a solid frame to support a Vision Series video wall from behind. This can be used to setup a freestanding screen of up to six panels in height and unlimited width, with ballast provided using conventional sandbags or stage weights. The system is designed for use with the existing VSRB1 Rigging / Ground Stack Bar, which sits between the lowest panel and the ground, as well as the VSRQR Rear Quick Clamp, which connects the rear of a panel to the Ground Support Ladder Truss behind. All products in the new Ground Stack System are robust, lightweight, and finished in matt black, making them ideal for use by production companies and on touring productions.

"As we look forward with positivity to the future of our industry, I am really excited to introduce ADJ customers old and new to the latest additions to our product line for 2022," comments ADJ USA's National Sales Manager, **Alfred Gonzales**. "The new fixtures all represent ADJ's continued commitment to serving lighting designers, production companies and integrators with robust and reliable lighting and LED video tools that do what they need to do at price points which allow good ROIs. And, this first wave of products is only the beginning, we will be launching a number of other exciting new fixtures over the coming weeks."

ROBE UNVEILS THREE-IN-ONE LIGHTING SOLUTION

Robe Lighting launches the full-form product video for its new **T11 luminaire**, the latest in its hugely popular and successful "T" series. T11 is a static fixture – available in three versions Profile, Fresnel and PC – designed to be a perfect investment for any venue – especially theatres and performance spaces – seeking to renew their existing 'generic' lighting rigs and upgrade to the latest LED technology with all Robe's guaranteed reliability and quality.

This genuine three-in-one solution in a single fixture housing alleviates the additional cost of separate 'generic' purchases and looks forward to a more sustainable future.

The MSL-TE 350W LED engine itself

generates 16,760 Lumens, giving 9,500 lumens from the T11 Profile, 9,600 lumens out of the T11 Fresnel and 9,400 lumens for the T11 PC, and being a TE light source, brings all the advantages of straightforward exchange or replacement.

The LED technology also provides identical colour characteristics, responses, and ultimate control of all T series luminaires for precise colour consistency across any Robe lighting installation.

A rapid-change front lens system transforms the T11 into the Profile, Fresnel or PC variants making it an even more cost-effective and adaptable creative tool.

High-definition optics deliver accu-

rate projection and beam control, with an impressive wide-ranging 10:1 ratio 5-50° zoom from the T11 Profile unit's single, integral lens tube. The T11 Fresnel offers a classically Fresnel-style beam while the PC version has an authentic soft-edged PC beam, both with a wide-ranging 5-60° zoom.

Knowing the importance of CT whites for applications like theatre and television, there is a virtually controlled CCT range between 2.700K to 8.000K. Calibrated whites and fantastic tungsten emulation ensure perfectly

(Continued on page 40)



The LED technology provides identical colour characteristics, responses, and ultimate control of all T series luminaires

CHAUVET PROFESSIONAL EXPANDS IP65 WITH THE NEW COLORADO PXL BAR

The new IP65 rated **COLORado PXL Bar 16** and **COLORado PXL Bar 8** from **CHAUVET Professional** demonstrate a wide range of performance features, such as seamless pixel pitch between fixtures and fast, smooth motorized tilts up to 200° whether used indoors or out.

"We developed this fixture in response to customers who wanted a motorized IP65 rated batten that could be used outdoors at remote broadcast sites, festivals, and amphitheaters, as well as at indoor applications," said **Albert Chauvet**, CEO of Chauvet. "This versatility translates into a faster ROI for our customers."

Regardless of where it's used, the **COLORado PXL Bar 16** is loaded with features that will greatly expand creative possibilities for lighting designers, such as its 60°, 180°, and 200° motorized tilt range options. Other examples are the 5.8' to 48.8' zoom range of its 16 45-

watt RGBW LEDs, and its two zones of control for pulsing effects.

The **COLORado PXL Bar 8** also maintains pixel pitch between fixtures and has the same zoom range as its larger cousin. However, it has fewer pixels and only one zone of control due to its smaller size. Both fixtures also have an impressive 8,875K color temperature (at full).

Adding even greater versatility to these fully pixel mappable fixtures are their built-in effects, including virtual gobo and movement macros with separate foreground and background color control. Slotted Omega brackets make it quick and easy to hang the fixtures on truss. They can also be positioned on the ground to provide a variety of different



COLORado PXL Bar includes virtual gobo and movement macros with separate foreground and background color control

light angles.

The latest in CHAUVET Professional's series of IP65 rated products, **COLORado PXL Bar** fixtures can be controlled via DMX, sACN, Art-Net, and Kling-Net; and are also RDM compatible for remote accessing and troubleshooting.

Constructed with a magnesium-alu-

minum alloy, die cast aluminum and high impact polymer, the new fixtures are rugged and lightweight. The fixture's body, as well as its power and data connections, software ports, 5-pin DMX input, and TCP IP input are all IP65 rated to ensure unparalleled performance regardless of the weather.

ELUMEN8 EXPANDS THEIR IP RATED FURY SERIES WITH RGB BACKLIGHT

eLumen8 has released the new **FURY DTW** series blinders that give lighting designers and installers the opportunity to create stunning light shows with their tunable amber/warm white COB LEDs and separate RGB backlighting.

eLumen8 have continued to expand their LED blinder line up and broaden their horizons even further by adding these powerful fixtures to the mix. The IP rated **Fury** series are available in either 2 or 4 cell versions and come loaded with 90W COB LEDs, providing intense tungsten emulation. This provides the designer with a 'hybrid' blinder and strobe unit in one fixture, with the added RGB backlight feature giving no end of possibilities for both indoor and outdoor installations, stage, theatre, live or touring

applications.

Chris Beesley, Product Sourcing Manager says "The combination of an energy saving, halogen emulating blinder plus an ingenious RGB backlight allows the lighting designer to create stunning eye-candy effects across a rig, coupled with the iconic blast of intensity favoured on rock stages across the globe. These blinders are often rigged across the proscenium arch, and also feature waterproof connections for both power and 5-pin DMX for outdoor applications."

These IP65 multi-use fixtures have a robust housing that meets the



The IP rated Fury series loaded with 90W COB LEDs, providing intense tungsten emulation

demands of the touring and rental markets whilst still looking super sleek. Each LED pod has a 50° beam angle, and the angle of each pod can be manually adjusted thanks to its protractor style markings giving accuracy and ease. The **eLumen8 Fury** blinders mix old school favourites (tungsten and strobe) with new technology (pixel mappable COB LEDs), and offer a whole host of features you would expect from **eLumen8**, including 4 dimming curves, various modes of operation, powerCON TRUE1 inputs/outputs and IP rated 5-Pin DMX inputs/outputs.

ROBE UNVEILS THREE-IN-ONE.... (Continued from page 39)

rendered skin tones every time due to the T11's high TLCI and TM30-18 ratings and the exceptional CRI of 95+.

The T11 Profile's manual shuttering system is accurate and easy to use, and in the fresnel version it functions as an internal barn door.

Integral to the T11 Profile, is a manual 1° MagFrost (Magnetic Paddle System)

for instant softening, standard on this fixture which also has optional 5° and other frosts available. The T11 PC and T11 Fresnel fixtures have a 5° MagFrost as standard, plus a range of optional frosts.

Designed to be compact and unobtrusive, the T11 is ideal for noise-sensitive environments like concert halls and for anything from orchestral work to

corporate and business presentations and other spoken-word scenarios.

With TV studios, multi camera and HD recording and broadcasting environments in mind, the T11 runs Cpulse flicker-free software and has a dedicated plus / minus green channel control.

To increase gobo capacity of the T11 Profile from the single breakup gobo

and holder included with the fixture, an optional drop-in module containing two rotating and three static gobos is available, fitted using Robe's standard slot-and-lock system. Easy to install and with a motorised iris included, this allows the dual projection of both static and rotating gobos to produce more dynamic effects.

ABSEN MR SERIES

Aimed at the rental, staging market, and virtual studio market available in 4.8 millimeters. The MR series is a high-impact floor display for interactive rental and staging applications like concerts, trade shows, and XR virtual studio solutions. It has a brightness of up to 1,200 units with a refresh rate of 3840 Hz. The surface is made of highly polished deep black tempered glass, made of lightweight die-cast aluminum, panels have a dimension of 19" x 19" x 3", which is -30 % thinner than regular panels, which require a shorter slope. The panels also have an adjustable height of 0-20 millimeters in case the panels are placed on rough ground. This will allow users to directly install floor displays to the ground, in most cases, without additional structure and work. An installation frame solution is also in development, to let you set up several panels at a time and speed up the assembling. The surface of each panel is constructed of highly polished deep black glass that is water-resistant. This allows the panels to be easily cleaned while also creating a dream-like stage effect under the same light. Another key feature of the MR series is the high-intensity frame that allows for a strong load capacity as the floor applications require. The high-intensity frame design guarantees safety and sturdiness, which can bear a load of 2500kg/m² approximately, also has a factor of safety that is greater than 3.0 for added protection to both the panels and users. The Built-in sensors can quickly identify triggered actions and respond in real time, bringing a pleasant interactive experience. Panels with built-in sensors can be assembled with general MR panels to produce more creative effects.



BARCO XDM AND XDX RGB PROJECTORS



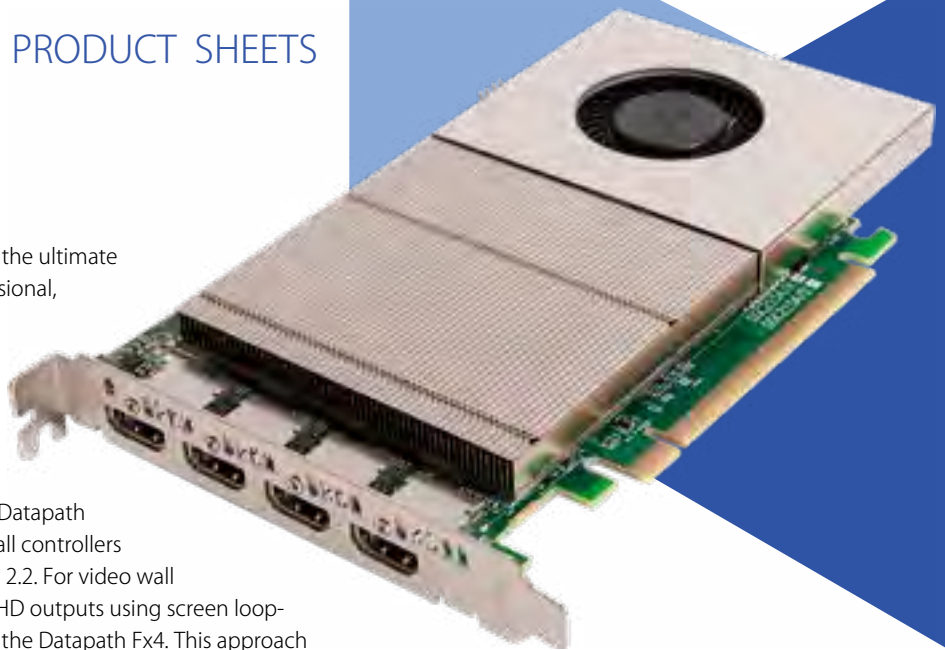
RGB laser projectors for extra-ordinary color spectacles with native 4K resolution From image quality to operational efficiency. Building on our expertise with cinema projectors, the XDM and XDX will brings Hollywood-worthy experiences to theme parks and other visitor attractions. Create immersive projections with extraordinary RGB laser color performances, and exceptional native 4K resolution. And be amazed by your own content, boosted with striking colors and high uniformity. XDM and XDX are 3D-ready and offer crisper, more true-to-life images and with greater impact, to create memorable moments for all your visitors and audiences. Next-level modularity Designed with the know-how to match the demanding performance and service criteria in the cinema industry, the XDM and XDX projectors keep in mind the priorities of the owners and operators. They provide high performances over a long period of time with minimal maintenance required. A cost-effective and durable solution with a low TCO and a high ROI. And if the unthinkable should happen, the projectors have easy-to-replace field-swappable modules. Even within the RGB laser light source itself, individual 'laser plates' can be easily exchanged by your own crew, with minimal training. Maintenance is both straight-forward and cost-effective. The high brightness, 4K native resolution and RGB laser light source make the XDM and XDX the most cutting-edge projectors out there. The implementation of high-quality lasers with an incredible 40,000 hours of lifetime. These superior lasers, combined the CLO features and Barco Active Image Management technology, guarantee consistently sharp images with high

uniformity over your projector lifetime. And real RGB laser projectors don't have to be noisy. The XDM and XDX superior cooling design and air filtration lower the noise level to only 50dB. The light source in an RGB projector, also called direct laser projectors, contains individual red, green and blue lasers. By combining different proportions of these three lasers, the projector can reproduce millions of different shades and hues. Barco's RGB XDM projector uses the smaller new 4K 0.98" TRP chipset, resulting in a more compact and cost-effective solution compared to its predecessors. The XDX projector uses the 4K 1.38" chipset which allows for higher brightness. By design, RGB is a wide color gamut light source. RGB projectors can go to the single bandwidth gamut called Rec. 2020, which is currently the widest color space available. For comparison, it enables at least six times more color possibilities than the accessible color range for a laser phosphor projector. In addition, with Barco's patent pending Colorgenic™ technique, the XDM and XDX projectors maintain their high brightness levels when showing >98% of Rec. content. No compromises. Barco Projector Management Suite Barco's unique subscription-based IoT solution allows to get the most out of the multi-channel installation. The data is accessible anywhere, anytime, and can easily be combined with your own tools and current processes. The basis Monitor features are automatically embedded in XDM and XDX projectors for the first two years of usage. Get in touch for more information. Frames Both projectors are delivered in a rugged rigging frame which makes them easy to handle and install. Furthermore, the frames offer protection and rigidity during the lifetime of the product. Lenses The XDM is available with two different lens mounts and can utilize both the high-quality TLD+ and XLD glass lenses. The XDX uses the XLD lens range. It includes both high-brightness and high-contrast variants. The high contrast range effectively doubles your contrast ratio for a modest 15% reduction in brightness.

DATAPATH 4K GRAPHICS CARD

The aptly-named Image4K graphics card has been designed to provide the ultimate flexibility and power for multi-display 4K installations. Designed for professional, multi-screen and video wall installations, the Image4K is a very powerful graphics card, enabling scalable solutions, that delivers full 4K60 4:4:4 content over four HDMI 2.0 outputs. Fully integrated with Datapath's graphical setup wizard, the Image4K is easy to configure for different combinations of monitors, projectors, or LED controllers. Output resolution, rotation and wall layout are all easily configured using the intuitive graphical interface in a matter of minutes. When combined with Datapath 4K-capable capture cards, the Image4K enables the VSN range of video wall controllers to deliver full 4K60 video from source to screen with full support for HDCP 2.2. For video wall applications, each 4K output from the Image4K can be used to drive four HD outputs using screen loop-through (if supported by the screens) or a multi-display controller such as the Datapath Fx4. This approach delivers up to 16 HD outputs from a single Image4K card, providing a simpler, more cost-effective overall solution.

Datapath's multi-screen display driver is engineered specifically for use with Windows 10 LTSC and Windows Server 2019. The display driver unifies multiple Image4K cards to present a single desktop canvas to the Windows operating system, allowing each video wall to display hundreds of output windows with full support for picture-in-picture and overlaps. The multiscreen driver supports a maximum of 24 outputs for the Image4K (six cards). Display Driver Configuration Tool Our unique graphical setup tool allows users to easily configure multiple outputs to create complex video wall layouts in a matter of minutes. The tool guides users through the setup process using a simple step-bystep wizard, enabling screen dimensions, resolution and position to be configured with ease. The built-in database of monitors contains hundreds of models from various manufacturers, allowing supported resolutions and bezel measurements to be easily configured for each monitor. The Image4K is fully compatible with Datapath's WallControl 10 software, which provides users with the interface required to quickly and effectively manage content that can include video captures, IP streams and local applications. Users can place any input source on any part of the Video Wall using a simple drag and drop interface. Precise positioning of each piece of content can be achieved through the mouse and keyboard, or via the revolutionary template tool. COMPATIBILITY Windows 10 LTSC and Windows Server 2019 operating systems.



D&B AUDIOTECHNIK 44S LOUDSPEAKER

The 44S flush mountable cabinet delivers compact, high performance audio and a wide range of flexible mounting options. The intelligent waveguide and baffle design creates a very smooth horizontal dispersion down to the lower frequencies while being tightly focused vertically. Paired with the 10D installation amplifier the 44S claims an exceptionally high performance to size ratio. Importantly, its powerful 121dB output is tightly focused in a 90° x 30° dispersion pattern keeping sound directed exactly where it should be and no further. The 44S features a smooth high frequency response for dedicated nearfield applications, up to 17kHz. A powerful midrange supports energetic vocal performances with high speech intelligibility and linearity. At the lower end, the 44S extends down to 90Hz.

The asymmetric cabinet design and the optional back box supplies additional flexibility that allows adjustments of +/- 20° in 5° increments, accommodating different listening heights. A rotatable waveguide extends this to both horizontal and vertical positioning. Paired with the 10D or 30D installation amplifiers the 44S claims an exceptionally high performance to size ratio providing a powerful 121dB and 123dB output, respectively. At an unassuming 128mm tall, the 44S can be placed at balconies, stage lips, trade show booths and stairs – even flush mounted in ceiling, walls and soffits. The two-way passive loudspeaker cabinet measures just 128 x 390 x 150mm (5 x 15.3 x 5.9-inch) in size and houses two 4.5" neodymium LF drivers and two 1.25" HF dome tweeters in a passive 2-way design. A variety of accessories allows you to mount the 44S to walls, floors, and under ceilings or balconies or mount on a stand. Target coverage gaps precisely with a single loudspeaker or in closely coupled clusters of two cabinets. The enclosure is injection moulded with an impact resistant paint finish. The front of the cabinet is protected by a rigid metal grill. Two M8 threaded inserts are incorporated in the back panel to connect to different rigging accessories. The loudspeaker cabinet and most accessories are also available with the Special Colour (SC) option that can be executed in all RAL colours.



LIGHTWARE HDMI-TPS

The HDMI-TPS-TX96 & HDMI-TPS-RX96 models intended to make operations significantly easier and quicker for users and integrators, without compromising on the renowned capabilities of their '95' predecessors. Most notably, the '96' devices lack the manual jumpers that have been used in previous models to enable/disable remote powering, and instead offer automatic, bi-directional 12V remote power, an innovative improvement allowing operators and integrators to save significant time (and thus, money). Furthermore, the extender pairs also come with an improved, more reliable hardware design including ESD protection, whilst exchanging the D-Sub type RS-232 connectors to 3-pole Phoenix interface. In regard to video transmission, the '96' devices are compatible with the same product range as the '95' extenders, including the '95' extenders themselves. Although these next generation devices have been designed to offer full remote power compatibility with their '95' predecessors. HDMI-TPS-TX96 and HDMI-TPS-RX96 twisted pair HDBaseTTM extenders provide extension of uncompressed Full-HD video for long distances over a single CATx cable. The unit offers bi-directional RS-232, IR, and Ethernet pass-through on the same CATx cable that carries the video signal. The TPS extenders support full HDCP and EDID compliance and work at all standard AV resolutions up to 4K and 48-bit color depth handling all standard audio formats and also 120 Hz 3D signals. Remote powering is available through a single CATx cable, but a local power supply can also be used. All devices can be mounted on a rack shelf or used stand-alone. The Auto operation mode allows the device to detect the far end extender's mode and adopt it. If the far end device is in Auto mode or it is a third party HDBaseTTM device the link will be set to HDBT mode. If the far device is in forced Long Reach Mode, then the auto operation will set the Link to Long Reach Mode. The products package includes PSU-12VU Universal DC Wall power adaptor with interchangeable plug for international use. Universal input: 100-240 V AC, 50-60 Hz, output: 12 V DC, 2.5 A Under desk mounting kit. The UD-kit makes it easy to mount a single device on any flat surface (e.g. furniture). IR emitter and IR eye emitter is supplied with TPS-TX, IR eye is supplied with TPS-RX units. Needed for IR extension. Under desk mounting kit double. The UD-kit double makes it easy to mount multiple devices on any flat surface. Rack shelf 1U high rack shelf provides mounting holes for fastening four quarter-rack sized units. Pocket sized devices can also be fastened on the shelf.



ROE VISUAL RUBY

ROE Visual has developed the 4in1 mini-LED in a 2.3- and 1.5-pixel pitch, Stronger, less reflection and more contrast due to an optimized black body, with striking colors. Ruby's high-brightness LED performance, the Ruby panels give visual performance for both direct viewing and on-camera visuals. Using the common cathode technology, power consumption is reduced by 20-25%, resulting in optimum heat-dissipation. Due to this technology more brightness and less color differences in the LEDs makes the visual performance stable and clear. The Ruby LED panels are fitted with exclusive 4in1 LEDs. Each 4in1



LED has 4 individual lenses, resulting in a remarkable LED performance. The enhanced black body between the lens packages creates better contrast and guarantees optimum brightness. The Ruby LED panels incorporate automatic edge protection on each panel corner, thereby reducing pixel damage drastically. The magnet-assisted assembly and vertically operated side locks with Z-axis correction make assembly quick, accurate and easy. True Colors Sporting advanced driver ICs and LEDs with large color space, Ruby is fully HDR adaptive. Adding excellent color depth and great greyscales to your visuals. Common Cathode technology significantly reduces panel temperature, resulting in efficient heat-dissipation, reduced color differences and higher brightness. Power consumption is reduced by 20-25%.

The absence of any mask enables an unprecedented wide viewing angle. With its high-brightness LED performance, the Ruby panels give an excellent visual performance for both direct viewing and on-camera visuals. The new standard for stunning visuals HDR. True Colors Sporting advanced driver ICs and LEDs with large color space, and improved greyscales Ruby offers precision imagery, showing

black in endless scales and fluent gradients. Easy Maintenance With both front and rear module service, the Ruby panels are easy to maintain. The magnet-assisted assembly and vertically operated side locks with Z-axis correction make assembly quick, accurate and easy. The Ruby RB1.5 offers a mere 1.5 pixel pitch in a brilliant LED panel with the unique 4in1 LED technology. Experience striking visuals brought in an advanced LED panel. Ruby RB1.5 offers a wide viewing angle, high contrast and reduced reflection. The Ruby RB2.3 offers a robust LED panel with the unique 4in1 LED technology. The 2.3 pixel pitch and wide color gamut creates brilliant visuals. Ruby RB2.3 offers a wide viewing angle, high contrast and reduced reflection.



NEXO

P8 & P10 COMPACT POINT SOURCE

The P8 and P10 models offer an exceptional performance-to-size ratio, precise polar control and outstanding sonic quality, as well as innovative features, the kind already seen in the first P+ Series model, the P12, launched six months ago. Inside custom birch and poplar plywood shells, the P8 features a coaxial 8" LF driver with 1.5" diaphragm HF driver, and the P10 has a coaxial 10" Neodymium LF driver and 1.7" diaphragm HF driver. The P+ Series, the quick-release Magnelis steel grille can be quickly removed, allowing the horn to be swapped out, changing the standard 100×100 degree dispersion for a 110×60 degree alternative.

The coaxial drivers are responsible for smooth, clean sound and impressive SPL output: 129dB Peak for the P8 and 136dB Peak for the P10. Frequency response is 66Hz-20kHz for P8, and 63Hz-20kHz for P10.

The footprints of the two new P+ cabinets are very compact, and the enclosures are light in weight.

The P10 measures 497mm high x 384mm wide x 274mm deep, and weighs 15kg. The P8 is just 423mm x 276mm x 250mm, weighing 12kg.

P10 and P8 have a choice of power sources, with the NXAMP4x2Mk2 and NXAMP4x1Mk2, as well as the affordable NEXO DTDcontroller and DTDAMP4x1.3, which can drive 1x P10 or 2x P8 per channel.

NXAMPs offer a dedicated set-up for each horn to ensure perfect coverage at any frequency.

From NEXO's extensive and much-praised range of subbass designs, the L15 is recommended as the partner sub for P8 and P10. With a new acoustic loading technique using a 15" bass horn, the L15 operates with maximum efficiency: nearly all the front face of the cabinet is used as a radiating surface to provide really impressive output. With a frequency range of 40Hz-120Hz, and 139dB Peak SPL, this sub measures up as the most powerful in its category in the market.

Touring and installation versions of P8 and P10 are produced in black and white scratch-resistant paint. Applied using a special process, the paint finish prepares the P+ Series enclosures for use in all climate conditions and enables them to deal robustly with the demands of stage monitoring use. TUV and IP54 certification are provided for the installation versions of both cabinets.

NATIVE INSTRUMENTS

MASCHINE +

MASCHINE+ brings new freedom to the same fast, fun, and flexible approach to making music inherent to the rest of the MASCHINE line. Musicians can plug in, power up, and sketch beats in seconds, as well as develop fledgling ideas into performance-ready pieces with arranging and mixing tools – both with or without a computer.

As a studio centerpiece, it provides the same powerful sequencing, sampling, and synthesis Native Instruments users have come to know and love, with endless options for integrating outboard gear across a broad spectrum of setups and styles.

On-stage, MASCHINE+ provides expressive, hands-on control over every element in a performance, with both high-impact macros and in-depth tweaking just a knob twist away.

In addition to its classic groovebox workflow, MASCHINE+ packs an industry-leading collection of instruments, effects, and thousands of sounds with MASCHINE+ Selection. Heavyweight synths like MASSIVE, MONARK, PRISM, and FM8 join a lineup that includes the MASCHINE Factory Library, RAUM, PHASIS, and five Expansions, plus a voucher for two more.

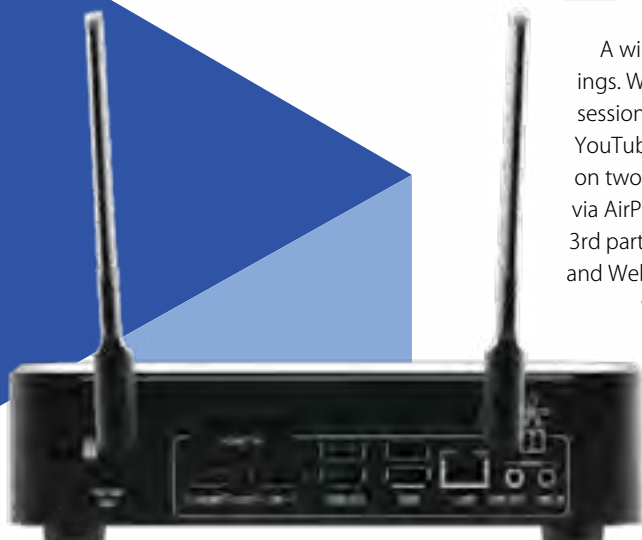
Every instrument and effect in MASCHINE+ Selection has been optimized to make the system's standalone workflow smooth and seamless, and users can expand their sound libraries with a wide array of Native's Expansions, as well as their own samples via SD and USB storage. Under the hood, a quad-core processor and 4 GB dual-channel DDR3L RAM power fast, spontaneous creation, to deliver a huge amount of freedom and flexibility when making music.



KRAMER

VIA CAMPUS²

A wireless presentation and collaboration solution that makes it easier to get actual work done during meetings. With any laptop or mobile device, users can view, edit, and comment on documents in real time and record sessions. Meeting participants can display or stream full, uninterrupted video from their device, and even play YouTube videos in full frame rate. VIA Campus² can show up to six user screens on a single main display and 12 on two displays. Users can also view the main display on their own device. VIA Campus² features iOS mirroring via AirPlay, Windows & Android mirroring via Miracast, as well as Chromebook mirroring. VIA Campus² supports 3rd party conferencing and office apps, such as Microsoft Office, Teams, SkypeforBusiness, Zoom, GoToMeeting, and WebEx. The solution can handle any size collaboration or meeting space. Easy and Effective Wireless Connectivity — Built-in Wi-Fi gives you two setup options for enabling meeting participants to wirelessly join the meeting. After setting a wired connection from your VIA device to your local corporate LAN you can do one of the following: use the built-in VIA Wi-Fi to create a guest network to which participants can connect or use the built-in VIA Wi-Fi as a Miracast receiver. 60fps Streaming Multimedia allows to share HD wireless video streaming (using the VIA app Multimedia feature). One 4K@30 (RGB) HDMI output and one 4K@60 DisplayPort output with Remote Power Control via a relay port. VIA Campus² optimizes Video Conferencing with Versa feature that enables wireless selection of the professional grade camera and AV in meeting room for VC calls.



EESA AIMS TO USHER IN A MORE STRUCTURED AND PROGRESSIVE BUSINESS ECOSYSTEM FOR THE EVENT EQUIPMENT SERVICES INDUSTRY IN INDIA

Vision board for 2021-2022 focuses on establishing simplified and standardized business process for vendors, building stronger relationships with event management associations

The Event Equipment Services Association (EESA) is a not for profit national organization dedicated to promoting a structured, secure, and progressive business environment for and within the event equipment services industry in India.

With the association growing out of its regional stature in mid 2020, to now represent the interests of the countrywide live event technical fraternity (which currently includes technical equipment vendors and independent technical services personnel); it has, ever since, strived to offer its members unparalleled support in the form of exclusive business resources, industry specific education, analytic and mitigation services, marketplace opportunities, and much more.

These efforts have yielded encouraging results over the course of the past 18 months via a host of initiatives championed by the association that leverages industry leading expert advice and intermediary services.

EESA has announced its vision board for 2021-2022, which realistically details key points that the association's management plans to lay emphasis on in order to move closer towards achieving its dream of establishing a reformed and more dynamic industry ecosystem in the country.

EESA Vision Board

First off, with the view of elevating the industry to a level that helps it gain the government's due recognition as an organized business sector, EESA has encouraged its members, and all industry stakeholders to register themselves as MSME's with the government. Furthermore, EESA encourages members to implement best practices in their businesses, like working with written contracts that highlight clearly defined and fair Terms & Conditions of mutual agreement of work. To help with this, EESA has painstakingly drafted a cache of documents that its members can refer to; which provides ready guidelines on key business aspects such as standard commercial terms, SOPs, service standards and code of conduct related to work deliverables and client commitments.

Partnerships with event management associations

Doubling down on its commitment

to improve communication between the technical services community and the event management community, EESA has taken the initiative to strengthen working partnerships with regional and national event management associations across India by engaging in active dialogues that emphasize mutual collaboration and a synergistic approach to business. The association has had a fruitful first few rounds of discussions with the **Event & Entertainment Management Association (EEMA)** – considered as the apex national body for event management companies in India – and also with the **Karnataka Event management Association (KEMA)** – the apex regional body for event management companies in the state of Karnataka. These discussions witnessed the respective associations agreeing to work together on key topics like fostering a better and more conducive on-ground / on-site working environment for all event personnel (technical and non-technical), and also encouraging processes that

members of either associations could follow in order to facilitate greater trust and commitment towards one another. Following this, EESA looks forward to collaborating closely with other regional event equipment services associations as well as event management associations across India with a similar collective approach in mind. EESA also intends to explore affiliations with associations of related industries like exhibition, catering, etc; which are viewed as equally important adjuncts of the event industry.

"EESA values the importance of establishing clear lines of communication not only with members of our own technical services fraternity, but also with clients and other working partners; so that we may better understand each other's viewpoint on the business, and find ways to help each other to realize goals, both individually as well as a collective industry. We believe this is crucial in creating a more balanced, responsible and conducive business environment for all; and EESA is com-

mitted to working towards achieving symbiotically beneficial affiliations with other event industry stakeholders. We're confident that through these efforts, the several different moving parts of the event fraternity in India can finally harmonize in a manner that would catapult the industry to more optimized plane of business dynamics" affirms **EESA President Mr Felix Remedios**.

With several EESA members from across the country playing an active part in furthering the association's initiatives – either as members of the National Executive Committee, or the National Co-ordination Committee or any of the strategic Sub-Committees that facilitate the smooth functioning of EESA's various operational commitments – the association has endeavoured to pool resources, ideas, opinions, and thoughts to find efficient, effective and long-term solutions to common issues faced by the industry at large, and also to extend several other member-exclusive benefits; as a way of thanking its PAN-India members for standing by the association with firm resolve.

Not only has EESA empanelled a team of experts to consult on crucial business matters such as insurance, taxation, compliance, and more; it also allows its members access to leverage the collective wisdom of the entire association in exploring prompt and efficient assistance and mediation in addressing their grievances on relevant issues. Alongside, the association also focuses on offering quality knowledge to its members via the EESA Enlighten programme, which considers all timely topics of educational value that emphasize technology in general, on-field technical skills, and of course, the ever-evolving business landscape with respect to critical aspects such as legal, finance, compliance, insurance and more.

New Website

EESA Members can also look forward to enjoying several member-friendly benefits that will be announced on the association's newly overhauled website, which is slated to feature a dedicated section that will allow them to access Marketplace Ads (where EESA Members can put up listings for sale of used

(Continued on page 47)



AUDIOTONIX GROUP ACQUIRES SOUND DEVICES

Audiotonix, the group which comprises the Allen & Heath, Calrec, DiGiCo, DiGiGrid, Group One Limited, KLANG: technologies, and Solid State Logic entertainment technology brands, announces the acquisition of US-based Sound Devices

LLC as part of its expanding group. The transaction, which was concluded today, further extends the Audiotonix professional solutions for audio production environments.

James Gordon CEO of Audiotonix comments, "The addition of Sound

Devices and their fantastic team to our portfolio of premium audio brands is a proud moment for all involved. Their expertise and technical pedigree in film production, broadcasting and professional recording is a great fit. As with previous acquisitions we always look to increase the knowledge share group-wide and, with FPGA-based solutions and RF wireless technology at their core, we have an enviable opportunity."

The acquisition will coincide with co-founder **Jon Tatoes** departure from Sound Devices after 23 years. Co-founder **Matt Anderson**, who has been Chief Engineer of Sound Devices since inception and CEO since 2013, will continue to serve in both roles.

Matt states, "I've enjoyed getting to know James and the team during the past few months. In terms of values and

culture, Sound Devices fits perfectly within the Audiotonix group of companies. In a way, it will be 'business as usual' at Sound Devices, as we will carry on doing the same thing, we've been doing for the past 23 years: focusing intensely on making the best sound products we can. However, the Audiotonix group brings us more strength in terms of access to capital, depth in manufacturing, knowledge in engineering, sourcing of parts, and expanding our sales and marketing expertise. I am extremely excited about this new opportunity."

Jon adds, "It has been incredible to build Sound Devices over the last 23 years into the organization it is today. I am very excited about the next chapter for the company, and I leave it in great hands. Audiotonix is a great organization who will build on the success we have achieved. I don't believe there is a better partner."



L to R: Jon Tatoes, James Gordon, Matt Anderson

NEUMANN OPENS EXCLUSIVE DEMO ROOM FOR MONITORS IN BANGALORE

Neumann has announced the launch of **demo rooms** for audio professionals at **The Red Music Box** - a professional recording studio and creative space in Bangalore, founded and run by **Varun Murali**. India is one of the first countries worldwide to experience the Neumann demo rooms with more such rooms planned later this year.

Bookings for the demo sessions are exclusively reserved for business professionals in the studio industry. A wide range of stereo set-ups of 2.1 can be auditioned. Sessions can include all industry standard playback formats and current streaming services. The Neumann demo room at **The Red Music Box Studio**, Bangalore consists of a tracking room spacious enough to record bands, singer-songwriters and has also accommodated a whole bunch of online live streaming music events during the pandemic. The control room is professionally calibrated for optimum clarity and frequency response for industry standard music production, monitoring, mixing and mastering services.

Sharing his excitement on the launch of the demo room, **Vipin Pungalia**, Country Manager, Sennheiser Electronics India said, "Neumann defines standards for microphone and audio

culture since 1928. To understand that we do the same for monitoring, you need to hear the difference from what you considered "very good" up until now. We see the overwhelming interest in the industry. Monitoring is not something you can experience on a website or a tech sheet."

He further added, "We want business professionals to have a first-hand, a first-ear experience on the potential that comes with the KH models. Their reputation is already incomparable when it comes to precision, neutrality, and overall system integration options. Nonetheless: how much this eases your sessions, prevents acoustic fatigue, and allows for a new level of control and fidelity on your sound stage must be experienced. We want to bring demo rooms as close as possible to industry professionals so everyone can make an informed decision on the best possible audio".

Speaking on the occasion **Varun Murali**, Founder & Music Producer at The Red Music Box Studio and Guitarist for the band, Swarathma said, "We are thrilled to officially partner with Neumann. The partnership is aimed at improving the quality and provide a fulfilling experience to artists and inspire



Neumann Launches Demo Room with Red Music Box

them to create great music. To enable this, the studio is equipped and crafted to put artists in their comfort zone and let them create music, perform, record, mix and master music with the help of Neumann monitors. We invite you and look forward to developing a community that shares the same passion of creating a musical journey that inspires."

Neumann monitors include solu-

tions for all room sizes, working ranges, mounting options, networking standards and even most demanding industry specifications. Analog and DSP options are included, as well as unparalleled subwoofer technology. One of the latest additions to the series is an automatic alignment kit, jointly developed with the leading audio experts from Fraunhofer Institute.

SOUND CONNECTIONS JOINS ADAMSON NETWORK

Sound Connections, based in Mumbai, has joined the **Adamson Network** with the addition of their premium loudspeaker products to its rental inventory. Founded in 2007, Sound Connections believes in providing top quality equipment and services whether it is for simple to complex installations, or for small rentals to full scale productions, and the professional sound & light company has wasted no time putting their new package to work.

"Looking to offer our growing client base with a high-end, compact audio system, we chose to invest in Adamson loudspeakers, having watched the brand gain a lot of traction in the

international as well as Indian touring market," says **Rahul Thul** of Sound Connections. "Also, the extensive support provided by **Stage Mix**, from whom the products were sourced, further solidified our decision in choosing Adamson." The company's new system consists of **12 S10 2-way**, full range line array cabinets and **8 E119 subwoofers** from Adamson, all powered by **4 Lab.gruppen PLM20K44 amplifiers** and linked by **Sommer cable Elephant SPM840**.

"We put the system to use right away after our purchase, at an event held at The St. Regis Mumbai on November 20," comments Rahul. "Everyone was incredibly impressed with its performance and

the event was a huge success. With such a positive response, we know we are primed to cater many more events, conferences, and shows that can benefit from our system."

**Sound Connection
invests in Adamson
Gear**



MRADUL SHARMA APPOINTED TO AVIXA'S BOARD OF DIRECTORS

AVIXA, the Audiovisual and Integrated Experience Association, has announced the election results for the 2022 AVIXA Board of Directors and Leadership Search Committee.

Cathryn Lai, Chief Commercial Officer, OpenBet, has been elected as Secretary-Treasurer of the Board by AVIXA membership. AVIXA members also elected to the Board **Michelle Grabel-Komar**, Vice President of Sales, Full Compass Systems, and **Dena Lowery**, COO, Opus Agency

In addition, the Leadership Search Committee (LSC) appointed **Tze Tze Lam**, Executive Director, Electro-Acoustics Systems, and **Mradul Sharma**, Managing Director, 3CDN Workplace Tech, to AVIXA's Board of Directors.

Frank Pisano, Vice President of Sales, Americas, BrightSign, has been elected by AVIXA members to the Leadership Search Committee. In addition, **Jon Sidwick**, Chair of the Board of Directors, has appointed **Sharath Abraham**, CTS, Engineering Manager, NY Metro Region, AVI-SPL, and **Christian Orcin**, Managing Director, d&b audiotechnik Spain, Portugal, and Italy, to the Leadership Search Committee.

"AVIXA continues to be honored with an immense amount of talent on its Board of Directors," said **David Labuskes**, CTS, CAE, RCDD, Chief Executive Officer of AVIXA. "This group's unique experiences from different facets of the industry and parts of the world will help guide AVIXA and push

the pro AV industry forward. I'm excited for the future collaboration with this incredible group of individuals."

AVIXA thanks the outgoing Leadership Search Committee Chair and former Chair of the AVIXA Board **Jeff Day**, IdeaCloud; and outgoing Board members **Ian Harris**, CTS-D, ihD Ltd; **Alexis La Broi**, CTS, Production Resource Group; and **Kay Sargent**, HOK. AVIXA also acknowledges and appreciates the contributions of outgoing LSC members **Mehryn Corrigan**, Microsoft; **Theresa Hahn**, USIS AudioVisual Systems; and **Stephanie Kohler**, CTS, LG Electronics.



Mradul Sharma, Managing Director, 3CDN Workplace Tech

EESA AIMS TO USHER IN A MORE STRUCTURED AND PROGRESSIVE BUSINESS... (Continued from page 45)

equipment) and Classified Ads (where EESA Members can put up listings like job openings, purchase of equipment, need of service etc), both at highly subsidized rates. These of course, are in addition to members being included within the EESA Membership Directory (where EESA Members will be listed along with contact details) which will be made available to all event managers & clients upon request. The website also sports prominent advertising options on the homepage for manufacturers and distribution channels to showcase their products and technologies, and leverage the opportunity to directly connect with their target audience i.e. EESA's PAN-India membership. EESA has affirmed that it shall extend added

benefit to its members in the form of special offers on products and services via its partnership with various brands / distributors; whenever such opportunities manifest.

EESA Vice-President Mr Santana Davis notes, "As an association, we deeply appreciate the support that every single member has extended in the form of their time, expertise, and physical effort in shaping EESA's vision and steadily bringing it to life. Our members are the true life-blood of EESA, and all the initiatives that we have championed over the past year or so, have been with one objective only – to safeguard our member's interests and better facilitate their overall growth and development. EESA is committed to building on the

traction that we've gained so far, and we are positive that it will result in not just growing membership numbers, but also in EESA being inclusive of other key segments and personnel that offer technical services to the events industry."

Recognizing the role and contributions of all technical personnel in adding to the advancement of the industry; EESA recently opened up the purview of its membership to include independent (freelance) technical professionals like sound engineers (FOH, System, Broadcast), lighting designers, Watchout/visual control system operators, trussing & SFX riggers, technical show directors, disc jockeys & visual jockeys, and any other individual engaged in

rendering technical services for events but not owning equipment. Such individuals can sign up with the association as EESA Associate Members, will be eligible to access a considerable part of the benefits that Primary EESA Members enjoy. The initiative has indeed garnered a very encouraging response so far, and the association is diligently working towards building its presence and impact across India, with key focus on Tier-3 and Tier-4 and Tier-5 cities.

Members of the technical services fraternity in India can visit EESA's newly overhauled website (www.eesa.in) to know more about the association and its activities and explore membership opportunities.

PARVAAZ ROAR BACK INTO ACTION WITH ALLEN & HEATH ON THE FULL CIRCLE TOUR

Fusing the poetic Urdu and Kashmiri languages with a cinematic soundscape of dreamy indie-rock, Bangalore based **4-piece Parvaaz** were declared "India's most exciting band" by Rolling Stone magazine in 2018 after a month-long tour of Canada took their music to an appreciative Western audience.

Fast forward 12 months to late 2019 and the band released their hotly anticipated fourth album, *Kun*, and tickets began to sell out for the accompanying promotional tour across India. And then, just as the band were ready to hit the road, Covid reared its head, and the band were forced into an involuntary 17-month hiatus. Finally, in late 2021, the band announced their return to the stage with the multi-city Full Circle tour, the first tour of its kind in India since the pandemic began.

Mumbai based sound engineer **Su-pratik Das** has worked with Parvaaz for the last 4 years as their FOH + Monitor engineer, and when the call came for the Full Circle tour, he already had a mixer – or three – in mind. And with the help of **Sun Infonet**, Allen & Heath's distributor in India, he was able to fulfil his Wishlist.

"Depending on the venue, I used a

dLive C3500 or **C1500 Surface** with a **CDM48 MixRack**, or an **Avantis** with a **GX4816 expander**," explains Das. "While I was slightly more familiar with the dLive than the Avantis, it took me no time to get familiar with the Avantis as well.

"I decided to use Allen & Heath consoles after a hands-on experience a few months ago for a virtual gig in Mumbai. Rohit Reddy [Senior Product Manager at Sun Infonet] was there to guide me through the boards and I found it very interesting how much these desks can do. It was the perfect choice for me keeping in mind the requirements and baggage restrictions. The fact that the console and the stage rack can both fit in the boot of my car is a huge plus."

With dLive firmware V1.9 released the month before the tour began, Das didn't hesitate to dive in and utilise some of the new tools on the tour. "Some of the features that I feel gave me an edge are the new RTA features, the two source expanders and all the DEEP compressor emulations," he says. "They make me feel like I'm sitting in a studio with a whole suite of plugins, but with no latency issues. I also really liked the new NEQ12 [12-band parametric EQ] to really deep-dive into the PA EQ because



Allen & Heath deliver the complete sound solution at 4-piece Parvaaz's Live performance

I am not, personally, a fan of using a graphic on the PA. Another great tool is the **Dyn8 processor** with its 4 bands of multiband and 4 bands of dynamic EQ., this is one of my favourite features."

By his own admission, Das is an engineer who likes to work quickly and keep things moving, so the customizable workflow options on both desks were welcomed with open arms – and busy fingers.

"A common feature that I like across dLive and Avantis is the ability to use soft

keys," he says. "I am a guy who's always figuring out the shortest and easiest way to do things. I have maxed out all the softkeys on both the Avantis and dLive and it has made my workflow a lot faster, and the large touch screens on the Avantis are perfect for quick navigation.

"All in all it was great to have the support from the team at Sun Infonet throughout the tour, I definitely had a fantastic experience. I can't wait to use these mixers for even larger shows and bigger stages!"

INFOCOMM INDIA 2021 GOVIRTUAL OVERVIEW

InfoComm India 2021 GoVIRTUAL took place from 15 to 16 September virtually in a digital format. The platform provided an online space where technology innovators presented their products and solution and discussed topical subjects like the potential future of the Pro AV industry post-pandemic and more. The two-day show featured industry forums, AVIXA seminars, and product-driven webinars.

A total of 45 speakers at the Industry Forums, discussed topics such as - Urban Development and Planning in India post-pandemic with respect to crowd control, sanitization, and air quality management facilities; Digital Government transformation Post Covid-19 discussed about increased internet penetration leading to capture of data online by the IT devices, acceleration of IT initiatives by businesses and digital infrastructure strategies to deliver end-to-end automated services online to their customers; Future of Tourism in India discussion emphasized the need for better promotion strategies and facilities for post-pandemic life; Reimagining the Education addressed the challenges of

hybrid learning and the need for proper IT structure and training of standardized teaching methods; Cyber Security addressed the Implementation of Zero Trust Architecture and real-time monitoring of data for protection; Elections in India discussed incorporating technology to monitor the crowd for future events and election campaigns and a digital

election campaign via data analytics.

The 12 AVIXA Seminars connected 21 speakers who shared their technical expertise and skills of AV application to the emerging trends due to the pandemic.

InfoComm India 2021 GoVIRTUAL exhibitors showcased their latest products via product-driven webinars,

where one could interact with presenters in real-time and discover the latest and exciting Pro-AV technologies. Some of the exhibitors at the event were HARMAN, Sennheiser, QSC, and Yamaha.

The two-day InfoComm 2021 GoVIRTUAL concluded with 1,727 unique visitors.

ABSEN APPOINTS VISHAL KANWAL FOR INDIA'S INDUSTRY DEVELOPMENT

Global provider and Manufacturer of LED displays, **Absen**, has appointed **Vishal Kanwal** as its Industry Development Director for India.

Vishal has previously worked with major companies like Panasonic India, Videocon D2H, and Samsung India Electronics Pvt Ltd. He has a vast experience of 18 years in the technology industry and has

worked across research and development, AV, and B2C consumer electronics job functions.

Vishal's prime focus is to establish the Absen brand in India by close cooperation with esteemed partners who provide appropriate solutions and services to end customers.

Vishal Kanwal, Industry Development Director-India, Absen



POLY UNVEILS UPDATED ROOM SOLUTIONS FOR TEAMS ROOMS WITH POLY DIRECTOR AI TECHNOLOGY

Poly unveiled its updated **Poly Room Solutions for Microsoft Teams Rooms**. This new lineup of Poly Studio Kits offers premium audio and video for focus, small, medium, and large rooms, and feature Poly DirectorAI technology.

Poly Studio Kits for Microsoft Teams Rooms on Windows are simple to buy and deploy right out of the box. With an optimized room view as well as speaker tracking and framing technology, Poly Studio Kits for Microsoft Teams Rooms on Windows deliver an equitable and dynamic meeting experience for everyone. Poly's Microsoft Teams Rooms solutions on Windows can be paired with new Dell or Lenovo conferencing PCs.

"Meetings are happening everywhere - from conference rooms to personal workspaces and everything in between. People crave equitable and consistent video meeting experiences no matter where they are," said **Laura Marx**, Vice President, Global Alliance, and Product Marketing, Poly. "Poly DirectorAI technology intelligently frames in-conference room meeting participants so anyone not in the

room can easily track the conversation."

"Today's workplace needs have changed, and Microsoft Teams Rooms is introducing inclusive collaboration experiences through concepts like the front row," says **Albert**

Kooiman, Senior Director of Microsoft Teams Devices Partner Engineering and Certification at Microsoft Corporation. "The new lineup of Poly Room Solutions for Teams Rooms brings users to the forefront of the future of meetings with optimized room views, plus speaker tracking and framing for a more equitable and dynamic meeting experience."

Oftentimes conference room participants either appear small and are difficult to hear, or the person close to the camera looks fine while the person sitting at the far end of the table looks too small. This leads to other meeting participants finding the experience to be inequitable, uninviting, or disengaging. Poly's DirectorAI technology overcomes this disparity and delivers a



Poly Studio Kits offers premium audio and video for an equitable and consistent video meeting experiences

high-performing meeting experience in any size space.

Poly Studio Kits for Microsoft Teams Rooms come in a variety of configurations and can comfortably equip any meeting room size to deliver an equitable experience for all.

Poly Studio Focus Room Kit for Microsoft Teams on Windows – Includes Poly Studio P15 and Poly Room PC for Microsoft Teams Room with Dell or Lenovo. A powerful all-in-one video bar and clutter-free cabling, beam-forming microphone array for clarity and consistent image quality with a high-performance image sensor that maintains proper light exposure with automatic low-light compensation.

Poly Studio Small/Medium Room Kit for Microsoft Teams on Windows – Includes Poly Studio USB and Poly Room PC for Microsoft Teams Room with Dell or Lenovo. Poly DirectorAI technology provides cutting-edge video experiences maximize limited space with powerful all-in-one video bars, clutter-free cabling, and beam-forming microphone array to ensure no one misses a thing.

Poly Studio Large Room Kit for Microsoft Teams on Windows – Includes Poly Studio E70, Poly Room PC for Microsoft Teams Room with Dell or Lenovo, Dual cameras with 4K 20-megapixel sensors covers large rooms

YAMAHA RELEASES DHR SERIES AND CHR SERIES LOUDSPEAKERS

Yamaha Corporation announces new additions to its professional audio lineup: **DHR series** powered loudspeakers and **CHR loudspeakers**. The DHR and CHR Series are ideal solutions for anyone ready to step up their sound reinforcement game to a new level of professional quality, accuracy, and performance. Premium plywood cabinets

finished in a tough polyurea coating provide durability not found on other loudspeakers in this class. Each model has been optimized to meet the demands of a variety of sound reinforcement applications, with 10" models for

fixed installation and utilities, 12" models designed for use as floor monitors, and 15" versions for FOH applications, all featuring carefully selected custom transducers. The DHR Series transducers are driven by DSP-equipped class-D power amplifiers to deliver stunning sound quality and clarity. Combined with practical features adapted for their specific applications, these two series give you the flexibility to choose the ideal speaker for a wide variety of sonic environments.

The 10" models are equipped with rotating HF horns and compatible with an optional UB-DXRDR10 U-bracket for use in fixed installations and utility, while the 12" models are the first Yamaha speakers to feature a coaxial compression driver for improved clarity and smoother frequency response for floor monitoring. The largest in the lineup are the 15" models, which feature dual-an-

gle pole sockets and rigging points for use in fixed installations or as temporary main speakers for sound reinforcement.

"The DHR and CHR Series are an innovative new lineup of powered and passive loudspeakers based on combining the concept of optimization for specific applications with the know-how gained through the design, development, and production of the high-end DZR/CZR and DXR mkII Series as well the most affordable DBR/CBR Series. It gives me great pleasure to announce that the addition of these six new models will allow us greater flexibility in providing our customers with affordable solutions that are optimized for their needs, and strengthen our lineup of professional audio speaker systems by offering the high-quality sound" says **Chihaya 'Chick' Hirai**, General Manager of Yamaha's PA Marketing and Sales Department.



Incorporated with coaxial compression driver

D&B INTRODUCES THE XSL SYSTEM COMPACT LINE ARRAY

d&b Audio Technik's range of line array family, the SL-Series, has announced the arrival of its smallest sibling – the XSL System. XSL encompasses all the comprehensive features of its SL bloodline, from outstanding broadband directivity control and extended low frequency performance, to comprehensive rigging, cabling, and transportation.

The XSL System comprises installation specific and mobile touring variants. XSLi for permanent installations, is ideally suited to venues with a high dependency on the clarity of spoken word, together with the need for high power, full spectrum performance. The XSL mobile version addresses the needs of the broadest range of touring applications. Both XSL and XSLi can be deployed as a stand-alone, self-contained package, or as a delay, or fill system to accompany its GSL and KSL siblings.

XSL's extra small dimensions bring the SL-Series feature set – 2-way active design, high SPL and impressive cardioid low frequency performance – to a huge range of installations and events. As one would expect, the XSL fits seam-

lessly into the valued d&b Workflow.

"The performance-to-size ratio of the XSL System is unlike anything available in the current sound reinforcement market, or within the d&b portfolio," says Werner 'Vier' Bayer, d&b Product Manager. "For installation, the system's broadband directivity control drastically improves the ratio of direct to reverberant sound in acoustically critical spaces. In short, it will clean up your room! For mobile, a small footprint and improved sonic performance are really valuable. It's an enormous step, it's really impressive."

Matthias Christner, Head of R&D Acoustics at d&b said, "Going into the design of this product we were actually a bit sceptical about whether we could achieve the signature SL-Series directivity performance in such a compact format. We're really thrilled, slightly stunned and very proud that it works so well. I truly believe that the sound quality, dispersion, and clarity delivered by XSL will spearhead the evolution that we all expect from smaller arrays in the future."

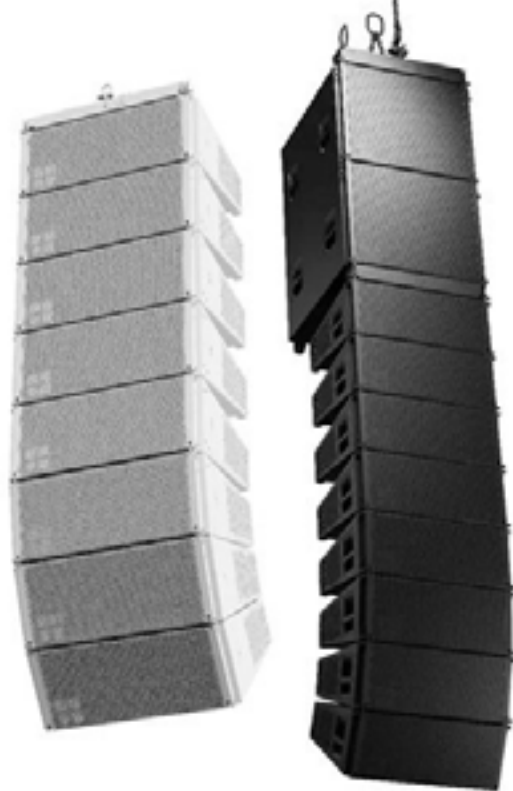
Continuing d&b's fixation with di-

rectivity, XSL delivers cardioid performance across the full frequency spectrum, resulting in: reduced audio spill onto open mics on stage; improved clarity and impact of individual instruments; and less coloration of mid range build up in venues and on broadcast and recording feeds. Less spill from the main PA to the stage, and backstage, improves the creative experience for performers, while giving more control to monitor engineers, particularly in the mid to low frequencies.

XSL loudspeakers achieve broadband directivity using patented SL-Series cardioid techniques to control low frequency dispersion. The XSL System's excellent sonic performance and clarity is achieved with this unique pattern control and enhanced further with d&b Enabling technologies including d&b ArrayProcessing.

The d&b amplifier family, including the 40D installation and D40 mobile amplifiers, have been designed to

deliver the power density required for high efficiency d&b systems. The four channel Class D 40D/D40 devices come with advanced voltage management to bring up to 50% power draw efficiency to the d&b range – with zero compromise in performance. d&b amplifiers do more than drive d&b loudspeakers: they realize the full potential of the d&b system approach. The XSLi installation systems, along with the installation specific 40D amplifier,



LAWO UNVEILS IP-NATIVE MIXING SYSTEM DIAMOND BROADCAST CONSOLE

Lawo unveiled its all-new **diamond broadcast console** for radio and TV applications. This IP-native mixing system is based on the open AES67/RAVENNA Audio-over-IP networking standards and complies with ST2110-30/-31 and ST2022-7. Powered by the Lawo Power Core Engine, diamond provides expandable I/O, accommodating AES67, MADI, analog, AES3 as well as Dante audio sources and destinations.

Modular by design, diamond is available in configurations from 2 to 60 physical faders, either as desktop or flush-mounted build. Fader-adjacent color displays give extended source information, and two fader layers allow operators to instantly switch between multiple tasks. Silent, motorized faders and precise encoders inherited from Lawo's acclaimed mc² audio production consoles permit flawless integration with program automation and playout systems

— perfect for multiple-layer operations involving voice tracking, remote production, or DAW control. Programmable, color-coded LED button and encoder lighting highlights common control functions.

Much more than helpful meter bridges, optional Virtual Extension modules feature HD color TFT displays for extended information and touch control. Ember+ and HTML5 integration enables control of third-party hardware and software. Several module types are available for customer-specif-

ic arrangements of hardware controls and sections.

Diamond employs smart algorithms that speed up production workflows. A host of assistive mixing technologies enable diamond operators to produce compelling, engaging programming. The AutoMix function automatically maintains the balance of multi-mic productions, and AutoMix Grouping allows this intelligent automatic mixing to be applied to multiple independent source groups. AutoGain, an automatic gain setting function, optimizes guest and host mic levels with a single button press.

IP-based studio infrastructure makes it very easy to control devices remotely and share information between studios. The diamond display apps take maximum advantage of IP studio networking, giving users the ability to operate their console remotely with complete access to every

function from a PC with a LAN / WAN connection.

unlimited number of snapshots enables DSP profiles to be stored and recalled from any networked console, individual talent profiles or customized show setups are available anywhere — even to operators working remotely from home studios, OB setups, etc.

diamond furthermore integrates with HOME, Lawo's management platform for today's complex IP-based media infrastructures. HOME helps connect, manage and secure all aspects of live production environments, providing centralized microservices for swift, effective interaction of engineers with their tools. HOME turns an array of devices, setups, sites, hubs and data centers into a powerful, agile network — quickly and in a perfectly secure way.

"With diamond, Lawo is making a bold statement regarding the radio landscape of the future," said **Johan Boqvist**, Lawo's Senior Product Manager, Radio.



JBL INTRODUCES EON700 SERIES WITH BLUETOOTH

HARMAN has introduced the **EON700 Series** portable PA loudspeakers and subwoofer with Bluetooth. The EON700 Series represents a step forward in innovation and technology by delivering intelligible, clearly consistent coverage at any volume level. With four models available, including the 10-inch EON710, the 12-inch EON712 and the 15-inch EON715 powered PA speakers and the 18-inch EON718S subwoofer, EON700 systems cover the needs of today's working musicians and sound providers. These flexible systems are designed to effortlessly scale with customers' needs, from DJ performances and full bands to solo singer/songwriter gigs, presentations, and worship events. Configure speakers as mains or stage monitors, hung or stacked, in portable systems or permanent installations—the opportunities are endless.

Dial in optimal system sound in an instant using a built-in 3-channel mixer and dbx DriveRack Inside technology, featuring Automatic Feedback Suppression, 8-band output EQ and optimized use-case presets. Access functions quickly and easily via an onboard backlit color LCD screen or take control from anywhere using the JBL Pro Connect app. Bluetooth 5.0 streaming and control, mounting options and built-in

speaker delay bring even more versatility to these rugged, reliable systems.

"The EON700 Series truly represents the next generation of portable PA systems," says Brandon Knudsen, HARMAN Professional Product Manager, Portable PA Loudspeakers. "When we started designing these new PAs, we looked at our best-selling EON Series and made that core technology even better by upgrading drivers and amplifiers, refining waveguides, supercharging the effects package, and incorporating the most up-to-date Bluetooth protocol and universal app control. The result is a powerful, versatile system that sounds incredible at any volume, anywhere in the room."

"We've made it even easier than ever for performers to sound their best without having to rely on outboard gear, thanks to built-in advanced dbx DSP and presets that are optimized for a range of scenarios. And the series' incredible power-to-size ratio and low weight mean a faster, lighter load-in, which we can all appreciate."

Woofers are redesigned for lower impedance and higher efficiency with an improved horn that delivers a smooth off-axis beamwidth. JBL's powerful 2414H compression driver features a premium neodymium magnet for bal-

anced response in a lightweight footprint. Speakers are powered by 1,300 (loudspeakers) or 1,500 (subwoofer) watts of ultra-efficient discrete Class D amplification, for clean, clear sound.

EON700's advanced DSP package provides comprehensive control over EQ, limiters, delay, dbx Automatic Feedback Suppression, ducking and other speaker functions. Access settings on-speaker via an integrated backlit LCD screen, or from anywhere in the venue using the JBL Pro Connect App. Built-in Bluetooth 5.0 audio streaming (full-range speakers) and control take advantage of the newest protocol's security features, low latency, broad range and improved audio fidelity.

Full-range speakers feature FEA optimized composite enclosures, taking advantage of injection-molding and

mechanical-shaping techniques for added durability without sacrificing cabinet size or performance. Subwoofers are housed in rugged 15-ply birch enclosures; computer-optimized ergonomic handles make moving boxes a breeze.



HALL TECHNOLOGIES RELEASES 4X4 MATRIX SWITCHER

Hall Technologies, end-to-end Pro AV solutions provider, has announced the **HSM-44-UHD 4x4** matrix video switcher, ideal for use with multimedia presentation, digital signage, and conference room applications. The newly released HSM-44-UHD adds an easy-to-operate-and-install economical solution to Hall's existing line of matrix video switchers.

"Hall offers a wide variety of quality matrix switchers to support applications needing multimedia presentation switching," says Hall Technologies VP of Technology, Ken Eagle. "The HSM-44-UHD true matrix

switcher rounds out our portfolio with a more economical and streamlined product that supports HDMI resolutions up to 4K @ 60Hz4:4:4 in a small 1-RU package. We developed the HSM-44-UHD specifically with corporate boardrooms and breakout rooms in mind to create a fluid interactive method of presenting."

The HSM-44-UHD also supports HDCP 2.2 and 1.4, 3D, deep-color and PCM, Dolby, DTS and HD audio standards. Users can save and recall multiple matrix routing configuration presets



HSM-44-UHD supports Dolby, DTS and HD audio standards for routing configuration

from the easy-to-use front LCD panel display. EDID is automatically calculated

for based on each of the connected sinks.

www.av-icnx.com/magazine/

EVOLVING AND EMBRACING THE WORLD OF WIRELESS FREEDOM

Sennheiser Elevates the Audio Experience with Evolution Wireless Digital



Vipin Pungalia, Director - Professional Segment, Sennheiser Electronics India.

The Internet of Things is increasingly becoming reality with more machines, devices, objects, and people becoming interlinked. The world is witnessing a transition from wired technology to embracing a new world of wireless freedom as wireless technologies are making a considerable contribution to this development. We are now in the early stages of the next technological revolution: the development of a ubiquitous wireless network that will marry data collection and computation with billions of devices, making wireless technology innovations lead the way to a smartly connected future.

From wired networks, chargers, headphones, earbuds, and speakers, users are now enjoying a seamless hassle-free experience by tapping into the world of wireless. Wireless is congruent to convenience and makes set-up times faster. But for the not so tech-savvy, setting up wireless microphones can be an overwhelming experience or even intimidating. To overcome the limitations of the traditional wireless system and to bring an audio-elevated yet user-friendly experience to

live performances, Sennheiser introduced 'Evolution Wireless Digital'.

Being an innovation first brand, Sennheiser launched EWD to equip artists who put quality and performance above all. A unique tool, best in its class with staggering 134 dB dynamic range – highest in any wireless system at present. With this revolutionary feature, the EWD can pick up the lowest lows and the highest highs. With such a high dynamic range it eliminates the need for a sensitivity setting, allowing the user to focus on their art and let EWD automatically ensure they get the perfect

input gain every time. Truly eliminating the need for wireless expertise, with no intermodulation, no more frequency calculations and no more headache while planning RF.

The Evolution Wireless Digital is the most reliable connection for any situation, any place, today or even tomorrow – whether it's voice, lecture, conference, moderation, or live performance. With

To allow a seamless workflow, the entire setup and use of the Evolution Wireless Digital can be controlled through the palm of ones' hands, with the EW-D Smart Assist App. Connect via Bluetooth with your iOS or Android device for an efficient setup and overview of your new wireless system through the app that does it all for you. To

We are now in the early stages of the next technological revolution: the development of a ubiquitous wireless network that will marry data collection and computation with billions of devices, making wireless technology innovations lead the way to a smartly connected future.

the EWD, the party keeps on going because it automatically secures the most reliable signal in a snap, allows for up to 12 hours of operation and can coupled with all Sennheiser or Neumann microphone handheld heads.

conclude, the EWD is an innovation that simplifies the process, while enhancing the audio experience for its users and that is what Sennheiser constantly is will keep working towards.

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Evolution Wireless Digital Evolving With You.

Evolution Wireless Digital raises the bar by providing the highest dynamic range of any wireless system currently in the market, utilizing advanced features that simplify your setup and guarantee the most reliable connection. Maximize efficiency by taking full control with the Sennheiser Smart Assist App and automatically coordinate frequencies with ease. Increased bandwidth, equidistant frequency spacing, intermodulation free system and lowest latency make it the most powerful tool for those who put quality and performance above all else.

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