

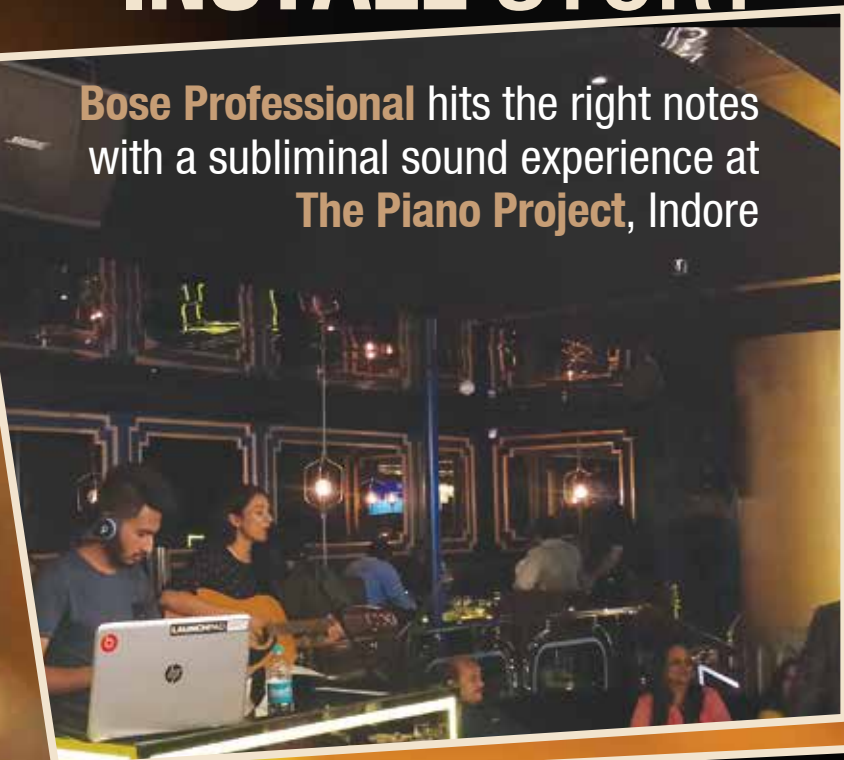
# PALM<sup>TM</sup> technology

SOUND & STAGE • LIGHTING • INSTALL SOUND • MUSIC PRODUCTION • DJ TECHNOLOGY

EXPO PROMOTION

## INSTALL STORY

**Bose Professional** hits the right notes with a subliminal sound experience at **The Piano Project**, Indore



**Touchwood Automations** invigorates Pune's party scene with **CINCO**



2019  
PALM AV-ICN<sup>x</sup>  
**POST SHOW**  
REPORT +  
**VISION 2020**  
BROCHURE  
with this issue

9<sup>th</sup> edition

**PALM SOUND &  
LIGHT AWARDS**



**KNOW THE  
WINNERS**

### *Product Focus:*

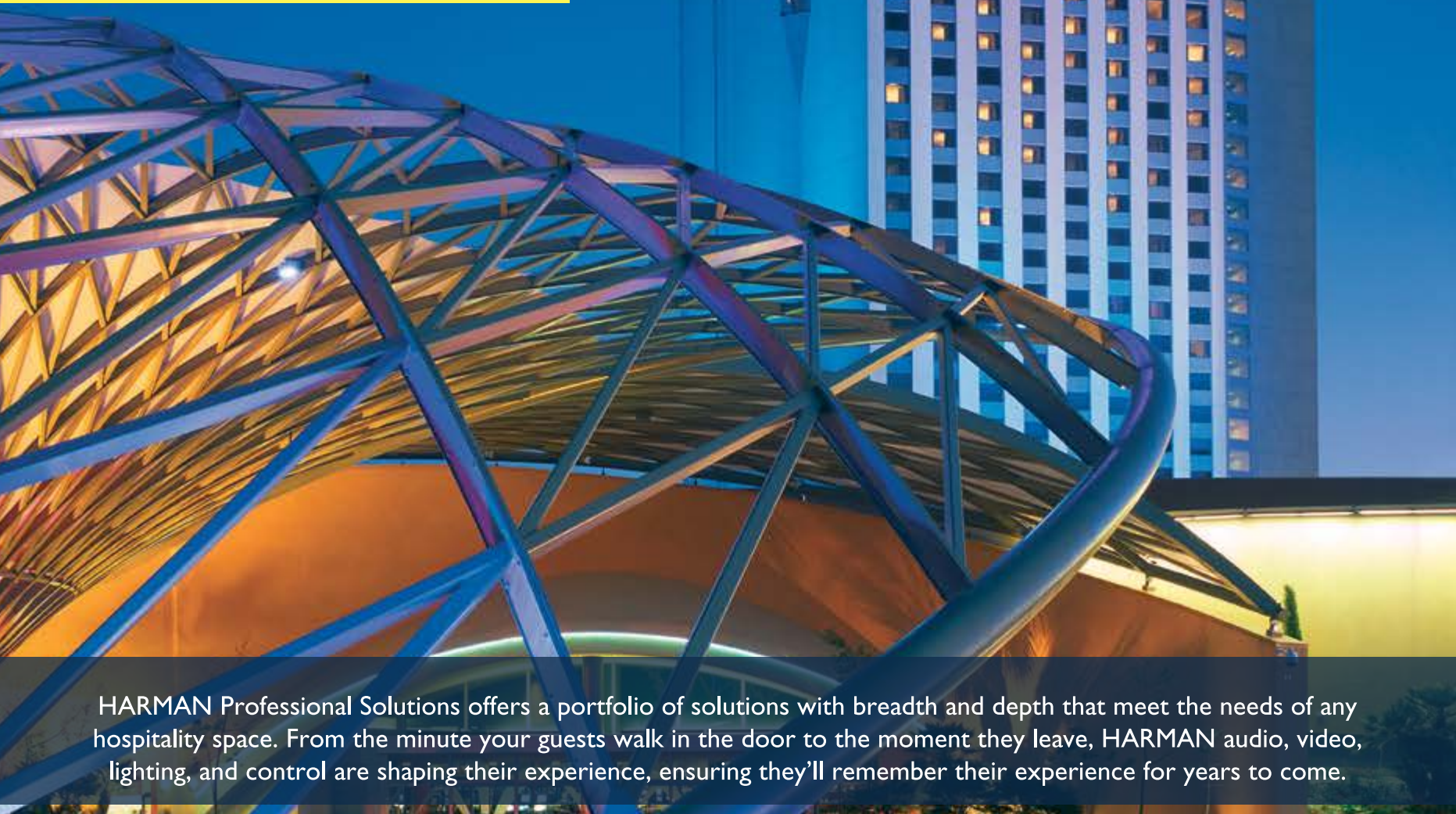
- MIXING CONSOLES
- INSTALL SPEAKERS

Theme: INSTALL JULY - AUGUST 2019

Regular  
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in every  
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## PALM + AV-ICNx Expo strikes the right chords

The 19<sup>th</sup> PALM expo rocked like never before. India's mega convention of the pro light + sound and AV industry once again flocked to experience the latest and finest technology on display. The show covered 11 halls across the venue, encompassing exhibits, demos and experiential events, spread across over 27,000 sqm., and hosted 325 exhibitors, with total footfall across the three days reached a staggering 30,949 of which 23,241 were unique visitors.

The expo scaled new heights with an expansion into a dedicated exhibition on AV integrated systems - AV-ICNx Expo 2019 was launched in Hall 3 along with the 19th edition of the PALM Expo. One could feel energy of the industry at the largest show ever, with so much vigour and pride in producing large well-designed booths with a range of equipment on display.

The July-August issue is the annual PALM post-show review issue, however, this time we decided to do things a little differently. The report on the recently concluded PALM AV-ICNx Expo 2019 has been compiled into a separate brochure accompanying the main PT magazine. This brochure has all the juice, replete with information on products on the floor, conferences and other highlight features, as well as trade and visitor analysis of the 23,241 participants with succinct pie charts and graphs of 19th PALM-AV-ICNx Expo.



**Fighting for industry rights and business at PALM Summit 2019 (from L-R) Smita Rai, Milind Raorane, Mohamed Morani, Pramod Chandorkar, Sushma Gaikwad and Anil Chopra.**

The fact that the show has visibly grown, was reflected in the growing number of new exhibitors as also the floor space occupied by all the exhibitors. Lighting accounted for 17%, Stage Sound accounted for 35%, Install Sound for 26%, AV accounted for 15% and Studio/Audio Recording & Production for 7% of all exhibits.

One of the pleasures of being at the PALM expo is meeting new, determined young companies whose fortunes look certain to rise and there were plenty on the show floor as well as at the indoor line array demo.

The mantra today is 'Make in India'. High technology is the first signal for most sound and light products proliferating and rocking the business today. This was evident on the show floor, as among a plethora of 'Made in India' products, was also pro audio giant YAMAHA Corporation adding a new dimension to their hall with 'Made-in-India products. YAMAHA launched its first Made in India product - the PSR-I500 keyboard, on day

one of the PALM expo. This launch event was attended and covered by over 30 media publication houses. YAMAHA Corporation of Japan has opened its first factory in India with a view to make it an export hub eventually. The first phase involved an investment of 380 crores, with the company producing portable keyboards, to be followed by acoustic guitars and pro-audio speakers.

The statistics in the pie charts and graphs also throw light on the burgeoning live music industry and install sound industry in India. Production pros and Systems Integrators today are, if anything, more practical about the equipment they buy or use. Now that the festival season is well and truly upon us, you will get reports of rental companies stocking up inventories with latest and state-of-the-art. Log on to [www.palmtechnology.in](http://www.palmtechnology.in) for all the dope.

While we are on the subject of Live stage rental business, Chinese smartphone manufacturer OnePlus is hosting a music festival in India this year. OnePlus will be organising a huge music concert in Mumbai in November 2019 and the upcoming music festival is expected to host several international as well as local music artists. The live events sector grows with each circle of new event organizers. As number of events grow and diversify, so too does rental audio inventory.

### PALM is the protector fighting for industry rights and business

The most vicious impediment in the current atmosphere remains – live music entertainment being banned for crossing both time and noise limits. PALM Sound & Light Conference Summit played a leadership role bringing a panel discussion on **Noise Pollution Control Killing Music**. Milind Raorane, Electro Acoustic Engineer, Pramod Chandorkar, FOH Engineer, Sushma Gaikwad and Mohamed Morani, event organisers were the esteemed speakers who imparted knowledge on noise and decibel levels at live stage events. Discussions put in perspective - woes of small sound rental companies unable to survive activists' and pseudo objections against any kind of music entertainment as being noise.

Anil Chopra, Director of the PALM Expo & Conference and Chief Editor of this magazine, despite desertions from industry associations was determined this session sends out a loud shout on protecting rental companies' business; announced that session will be a permanent fixture at the PALM Summit every year, and the White paper transcript of the entire session will be used by industry to find a resolution. Download to learn panel's hard work and PALM's standing strong in supporting pro sound industry: [http://palmtechnology.in/Noise\\_Pollution\\_Control\\_Killing\\_Music.aspx](http://palmtechnology.in/Noise_Pollution_Control_Killing_Music.aspx)

Making the situation worse for stage sound and light business is few shows and fewer venues. Announcement by the Bengaluru International Airport Limited (BIAL) to make Kempegowda International Airport (KIA) the first airport in India to host a world-class concert arena within its premises is more than welcome news.

PALM Sound & Light Awards [PSLA] recognition to those behind the stage, in its 9th consecutive edition has grown stature and global attention. World's leading Pro audio and lighting companies acknowledge PSL Awards. "PALM Sound & Light Awards – Know the Winners" will feature in PT mag as providing readers an insight to winners' achievements which marked their growth trajectory, that brought them on the PSL Awards stage. Turn to pg52 and pg58.

PT focuses on Install sound in this issue, so while we are busy trying to get material and information, some companies respond immediately while most other ask for extensions and / or cite concerns about Non-Disclosure Bonds. Those who painstakingly sent information naturally get featured. Read how Bose Professional Hits the Right Notes at The Piano Project, Indore pg56. and Touchwood Automations Invigorated Pune's Party Scene with CINCO pg45.

Our next issue [Sept-Oct] focus is on Lighting. The year-end issue [Nov-Dec] focuses on DJ gear. Six focus issues bi-monthly!! To guide the market product segment wise. Attempt is to highlight products and technologies in each segment.

Before signing off, a big shout-out to Warren Dsouza for the recently concluded Monitor Mixing Summit 2019 by EvenTech Academy, an initiative by SOUND.COM, which witnessed enthusiastic participation from the live sound industry in India as 190 delegates from across India congregated in Mumbai. Report on pg26. Stay tuned for more on this in the Sept-Oct 2019 issue.



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## PALM TECHNOLOGY

### CONTENT CHIEF

Anil Shiv Raj Chopra  
achopra@palmexpo.in

### CONTENT ANCHOR

Smita Rai  
srai@palmexpo.in  
Mob: +91 98209 43398

### CONTENT MANAGER

Ankita Bhadrawale  
abhadrawale@palmexpo.in  
Mob: +91 89668 12132

### DTP MANAGER

Peter Pereira  
ppereira@palmexpo.in

### WEB DEVELOPER

Dimple Shah  
dimple.s@abec.asia

Amol Kanchawade  
amol.k@abec.asia

### DISTRIBUTION

Vaishali Teli  
vaishali.t@abec.asia

### CONTENT PRODUCTION & RESPONSE OFFICE

#### PALM TECHNOLOGY

530, Laxmi Plaza, 5th Floor,  
Laxmi Industrial Estate, New Link Road,  
Andheri (W), Mumbai – 400 053.  
T: +91 22 4286 3900

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**PALM Sound & Light Awards – Know the Winners** will feature in PT as a regular feature.

*Top:* Team Ahuja receiving the award for MAJOR AUDIO BRAND DISTRIBUTION NETWORK

*Below:* Mukesh Panjwani receives his trophy for LIFETIME CONTRIBUTION TO THE PRO AUDIO INDUSTRY



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- LARGE PLATTERS WITH THE LOWEST AVAILABLE LATENCY, OPTIMIZED FOR SCRATCHING
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## AVISION MUMBAI JOINS ADAMSON WITH S-SERIES INVESTMENT

Mumbai's **Avision** has bolstered its audio inventory with an investment in S-Series loudspeakers from Adamson to better serve its wide and diverse customer base. Avision's new S-Series package includes eight **S10** full range line array cabinets and six complementing **S119** subwoofers with two **Lab. Gruppen PLM20K44** amplifiers.

"Adamson Systems is reputed all over the world and they boast an excellent set of products. We're proud to join the Adamson network," comments **Maresh Martal**

from **Avision**. "The S10 is a great-sounding audio system that allows us to differentiate from the competition," says **Prashant Sakalkar** of Avision.

**Karan Nagpal**, managing director of **Sonotone** says, "Avision is known for delivering turnkey solutions to their clients and we're elated to count them as a great partner for the Adamson brand." **Eshdeep Bhasin**, director of **LBT Electronics** adds, "We're looking forward to supporting them as they continue to grow their business with their newly-acquired Adamson inventory."

**Karan Nagpal, Sonotone; Ben Millson, Adamson Systems Engineering; Esdeep Singh, LBT Electronics with Maresh Martal and Prashant Sakalkar from Avision**



## ALLEN & HEATH GO 'EVERYTHING I/O' WITH NEW REMOTE AUDIO EXPANDERS

Allen & Heath continues to expand its 'Everything I/O' ecosystem with the addition of two new remote audio expanders, the **GX4816** and the **DX012**.

Addressing customer demands for a high-channel-count remote

**GX4816** unlocks new I/O possibilities with 2 DX ports provided for further expansion or connection to a ME personal mixing system.

Perfect for feeding IEMs and amplifier racks, the **DX012** is a 1U output expander, once again for

**SQ** or **dLive** systems. With flexible switching, its 12 XLR outputs are configurable as 12 analogue, 8 analogue + 4 stereo AES, or 4 analogue + 8 stereo AES outputs. A second **DX012**, **DX168** or **DX164-W** can be cascaded to the unit. Alternatively, a redundant connection can be made to compatible hardware.

The new units add to an already extensive array of I/O options, including the 48kHz **AR2412**, **AR84** and **AB168** audio racks for **Qu** and **SQ** digital mixers; the modular **DX32** rack, the portable **DX168** and the wall-mount **DX164-W** for **SQ** and **dLive** systems; and the recently introduced, Dante enabled **DT168** and **DT164-W**. Larger

systems can also be facilitated by the **DX Hub** expander.

"Convenience is key", comments Allen & Heath's Head of Product, **Nic Beretta**. "Many of our customers have been asking for an all-in-one, 48 input packages to reduce complexity and cabling on stage. The **GX4816** does that and is also a bridge to our ME personal mixing system. Similarly, the **DX012** allows users and installers to deploy outputs precisely where needed, for example side stage, feeding amp racks or IEM transmitters while minimizing analogue runs."

"While our mixers tend to hog the spotlight, our commitment to meeting a diverse range of I/O requirements is proving a real success with our users," adds **Rob Clark**, Allen & Heath's Managing Director. "From owner/operators who need compact, flexible solutions, through to rental companies who value our approach to common I/O across our product ranges and our strong Dante integration, we're looking forward to bringing further innovations to this market."



expander, the 96kHz **GX4816** is a central hub for all stage I/O, with a single cable link to **SQ** or **dLive** systems. Featuring 48 **dLive** mic preamps and 16 XLR outputs in a 4U chassis,



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Next Issue - Sept-Oct 2019

**LIGHTING** issue





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## QSC'S FIRMWARE V2.0 UPDATE FOR ITS ACCLAIMED TOUCHMIX-30 PRO DIGITAL MIXER

QSC, LLC's has announced new firmware v2.0 update to its highly acclaimed TouchMix-30 Pro compact digital mixer. Reportedly, quickly becoming the new standard for performance in a compact digital mixer, the TouchMix-30 Pro with firmware v2.0 is now further satisfies the needs of the most demanding professionals with a comprehensive list of the most-requested feature enhancements including:

- New Custom Fader Banks function supporting three fader banks assignment, each for eight channels, that are saved as part of a Mixer Scene
- Capability to interface with third-party external control surfaces with motorized faders (QSC has verified operation with iCon Platform M+, Behringer XTouch Compact and PreSonus FaderPort 8 control

surfaces)

- 28 New Instruments Presets (Cajon, Accordion, Harmonica, Ukulele, Cello, Clarinet, various Percussions and more)
  - CP Series Compact Powered Loudspeakers Presets available directly in the mixer as well as CP8 and CP12 loudspeakers' input gain settings recommendations
- "Listening and responding to the needs of our customers has always been a priority for QSC" states **Jon Graves**, QSC Mixer Product Manager. "Already proven as an incredible tool to help users achieve great results, with this new firmware, the TouchMix-30 Pro is now far and away the absolute best-in-class small format digital mixer on the market today. We're really proud of the effort and know our customers will appreciate the new functionalities."



Perfect for production professionals, musicians and bands as well as live performance venues, the TouchMix-30 Pro's 32 mixing channels (24 Mic/Line, 6 Line, Stereo USB) and 16 outputs offer tremendous signal management flexibility for a wide range of applications. Advanced features such as Class-A microphone preamplifiers, Anti-Feedback and Room Tuning

Wizards, two independent 24-channels Automatic Microphone Mixers, two real-time analyzers (RTA), patch matrix, 32-channel direct-to-external-drive recording and DAW interface with MacOS and Windows computers make the TouchMix-30 Pro equally competent as both a professional live sound or recording system.

## LEA PARTNERS WITH VARDHAMAN MEGATECH PVT. LTD. IN INDIA

July 23, 2019. — Vardhaman Megatech Pvt. Ltd. is pleased to announce its appointment as LEA Professional's distributor for India. Vardhaman has extensive experience of the Indian professional audio and systems

Augsburger, Founder and Chief Executive Officer and its ranks include some of the most prodigious and successful engineers and executives in pro audio.

Having recently enjoyed a highly successful InfoComm Show in the

powerful solutions to drive large-scale installations.

LEA Professional will join VMT's enterprise division, VMT Enterprise, serving projects and installations. "At VMT Enterprise, we are always looking to bring better technology to

amplifier technology, cloud connectivity and professional-grade build and aesthetics. In doing so we enable enterprises to leap-frog dated legacy offerings and quickly and easily capitalize on our new, scalable platform for better performance and a better experience! Sushil John, Dinesh Mandot and the VMT Enterprise team understand our vision, share our passion and are similarly committed to serving enterprise customers in India with the very best that audio and IT technology can offer!"

Commenting on the partnership, David McKinney, Founder and CEO, Generation AV, LEA Professional's Asia Pacific representative said, "The pairing of LEA Professional with VMT Enterprise is strategic and I am confident will yield a strong dividend for all parties — not least the systems integrator and end-user communities in India!"

"LEA's technology, future plan and products are extremely exciting. It's at par with our motto of providing the best in technology to music. We look forward to what the future brings and working together" said Sandeep Mandot, Managing Director, Vardhaman Megatech Pvt. Ltd.



Vardhaman Megatech team with LEA Professional

integration markets and has a proven team that specifically caters to each of the retail, enterprise and distribution segments.

LEA Professional, based in Northern Indiana — a traditional hub of audio innovation — has quickly evolved from a startup to a significant player in the global professional audio and systems integration markets. The organization is helmed by Blake

United States where the company explained its vision, showcased its technology and won several awards, LEA Professional will introduce a series of new amplifiers in the coming months that exemplify the commitment to power, performance, advanced connectivity and bold compelling design. This includes the Connect Series of high-power amplifiers for designed to provide system designers and integrators with

our network partners and ultimately our end users. LEA has an amazing line up of future-ready products and we're very excited to be partnering with them" said Sushil John, Executive Director - APAC, VMT Enterprise.

Echoing this sentiment, Blake Augsburger, Founder and Chief Executive Officer of LEA Professional, noted "LEA Professional empowers audio professionals with a unique and compelling coupling of advanced



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## NJSM'S D&B INVENTORY HITS A CENTURY

Mumbai Based professional audio rental company - **NJSM** has become one of the biggest holders of the **d&b Audiotechnik systems** V series boxes in India, by acquiring an additional 24 boxes of the d&b

Audiotechnik V series tops with **16 B22 Subs** and **12 T Series** tops with **4 V Subs**, taking the total inventory to **48 V Series** tops, **28 B22 Subs** **8 V Subs** and **12 T Series** tops. The company's inventory now boasts of

over 100 boxes from the d&b family.

NJSM founded by Nixon almost two decades ago has today grown rapidly from when it first started - manufacturing speaker boxes, mainly for churches in and around Mumbai.

One of the major reasons behind the growth of the company includes the ownership of **d&b audiotechnik** boxes, which really accelerated the NJSM growth in the Indian rental market.

The company received their first shipment of 12 tops of d&b V series with dual subs and 4 single subs in December of 2016, facilitated by d&b's official distributors in India - **Ansata**. Further in 2017, NJSM needed **40 d&b V series** boxes due to some impressive project on the horizon, but the box count at that time stood at 12 boxes. That's when NJSM decided to add another 12 tops. They also invested in another 8 dual subs. Just one gig had grown their inventory from 12 to 24 tops. On the strength of this newly acquired **d&b Audiotechnik V series rig**, NJSM successfully delivered outstanding audio support for shows like Sunburn by Percept's KSHMR and KYGO tours for their Kolkata and Mumbai chapters respectively in 2017 and 2018 kicked off with Nucleya in Belgaum and Amit Trivedi in Mumbai.



**NJSM Pro team with 24 more d&b audiotechnik V Series tops with 16B22 subs and 12 T Series tops**

## MARTIN AUDIO ADDS WPS TO WAVEFRONT PRECISION LINE ARRAY SERIES

Designed to set a new benchmark for 8" line arrays, Martin Audio has announced **WPS**, the fourth model in the Wavefront Precision optimized line array series.

**Dom Harter**, Managing Director, explains: "Simply put the more enclosures with dedicated amplifier channels, the higher the resolution, and scale of coverage and control is achievable. This means even at the lowest level of resolution the results are still fundamentally better than traditional line array, at no extra cost, and at the top end of resolution users can enjoy many of the benefits that MLA systems provide."

Following the introductions of WPL (12" LF), WPC (10" LF) and WPM (6.5" LF), WPS (8" LF) is the fourth in the series and is a versatile, state-of-the-art line array with a peak SPL of 133dB and perfect for applications that require a high output array with reduced weight and footprint.

Designed with Martin Audio's signature coverage, consistency, and sound performance, the flexibility of WPS makes it an ideal system for live

sound reinforcement and installations in theatres, concert halls, and Houses of Worship. Return-on-investment within a rental company's inventory is maximized by also deploying WPS arrays as front-fill, delay, or side-hang support for larger Wavefront Precision systems.

WPS is a passive 3-way system, which integrates a high density of drive units in a very compact enclosure. It features 2 x 8" LF drivers, 4 x 4" midrange drivers and 4 x 1" exit HF compression drivers loaded by a moulded HF horn which occupies the full width of the enclosure — defining the 100° horizontal constant directivity coverage pattern of both the HF and midrange sections.

The 4" midrange drivers are compression-loaded to raise efficiency and enter the horn walls via annular slots close to the HF throat to sum effectively with the HF wavefront. In the HF section, four 1" exit compression drivers deliver pristine high frequency sound without the harshness and distortion associated with larger format devices.



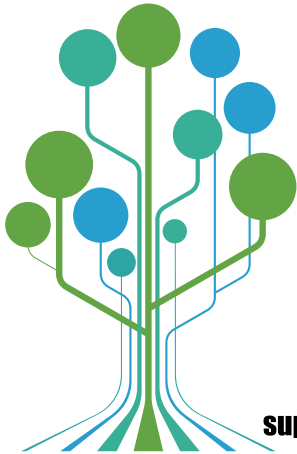
The 8" LF drivers are set back behind the walls of the HF horn, with a small volume of air in front of each driver increasing the output at the upper end of its operating range. The LF exit apertures are spaced apart horizontally to provide useful LF horizontal pattern control.

Harter adds, "With WPS this was a ground up product development. We wanted to overcome the deficiencies and compromises of other 8" line arrays available on the market today.

That's why we have more drivers in WPS than anything else we believe in its class, with spacing, waveguide and crossover point engineered to deliver in particular optimum HF performance with exemplary mid and high frequency pattern control, even at higher SPL."

For extended low frequency performance, WPS is designed to be partnered with the SXC118 cardioid subwoofer and its flyable variant, SXC118.





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## REMOVING BARRIERS TO CREATIVITY, ADAM AUDIO JOINS FOCUSRITE GROUP

The **Focusrite Group**, which comprises the Focusrite, Focusrite Pro, Novation and Ampify Music brands has announced the acquisition of leading studio monitor company, **ADAM Audio GmbH** of Berlin, Germany.

This is the first acquisition for The Focusrite Group since going public in 2014; a clear demonstration of their careful consideration around which brands should join in the Group's mission to 'Remove Barriers to Creativity'. As Focusrite Founder and Chairman **Phil Dudderidge** comments: "I am delighted that we have an important new addition to our family of brands. For the Focusrite Group, the creation and recording of music is everything. With a vision to create the most holistic creative experience for recording professionals and musicians alike, choosing the right high-precision studio monitor brand is key. Together with ADAM Audio we can achieve so much more, removing the technical barriers that

frustrate artists seeking to record and reveal their true sound." Importantly, the Focusrite Group has stated that initial focus is squarely on ensuring ADAM Audio has all the necessary freedom and autonomy to continue

Audio is undeniably a leader in the field of electroacoustics. The A7Xs and S3s have become standards in recording spaces across the globe. Even so, I know the team have no interest in resting on their laurels.



**Tim Carroll, CEO of the Focusrite Group with Christian Hellinger, CEO ADAM Audio GmbH**

their lifetime story of technological innovations. However, as **Tim Carroll**, CEO of the Focusrite Group

admits, it will be hard to contain the excitement in both companies to start innovating together: "ADAM

We need to ensure they receive all the support they require to continue raising the sonic bar. That our two companies are so aligned from a cultural perspective reassures me that, as we increasingly work together, great things will happen. With so much expertise between us in acoustics, sound reproduction, DSP, Audio-over-IP and control, the opportunities are abundant to refine recording and production workflows together."

ADAM Audio will continue to operate out of their main offices in Berlin, Germany, under the leadership of **Christian Hellinger**, who comments: "What a perfect beginning for the next chapter of our great company's story. I'm so proud of what the ADAM Audio team has achieved over the past 20 years, and can't wait to see what we'll achieve together with the Focusrite Group in our 3rd decade of creating future-oriented innovative professional monitoring and loudspeaker technologies."

## MARTIN AUDIO ADDS POWER TO FASTEST-SELLING PORTABLE RANGE WITH BLACKLINEX POWERED

Designed to set a new benchmark for full-bandwidth, high definition portable audio at a user-friendly price point, Martin Audio has announced **BlacklineX Powered**, bringing new active options to the award-winning BlacklineX family.

Comprising the 12-inch XP12 and 15-inch XP15 full range enclosures plus the compact but powerful 18-inch XP118 subwoofer, BlacklineX Powered integrates acoustic, DSP and

amplifier technologies to achieve the clarity, precision and richness of tone that audio professionals will recognise as uniquely Martin Audio. The range's debut – spurred by customer demand – follows the international success of the passive BlacklineX Series of portable enclosures – now officially the fastest-selling portable series in Martin Audio's 48-year history, reportedly.

In addition, BlacklineX Powered

offers optional Bluetooth control, streaming and a built-in three channel mixer, placing increased flexibility and features within easy reach of every user – from live venues, DJs and corporate events to permanent installs, particularly houses of

worship. Users will also recognise the road-ready construction, quick set-up and adaptability of this range developed by one of pro audio's founding brands.

"BlacklineX was the first series the team developed and launched after I became Managing Director," recalls Martin Audio MD, Dom Harter. "It's

become the fastest selling portable series the company has ever launched and a significant contributing factor



## SSL GOES LIVE WITH V4.9 CONSOLE RELEASE

SSL has announced their latest Live **V4.9 console** and **SOLSA** software.

This release includes a host of feature updates and performance enhancements including the addition of new Patch Manager for importing and exporting input patches, Talkback Groups, speed enhancements for Scene recalls and Routing page navigation, plus numerous



other workflow and functionality improvements.

in Martin Audio's rapid success over the last three years. The introduction of a self-powered series makes perfect sense and by leveraging our engineers' expertise in acoustic, DSP and amplifier technologies, we have crafted a very forward-looking portable range with a classic Martin Audio sound."



# STAGE SOUND LIGHTING ENTERTAINMENT TECHNOLOGY EXPO



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## MARTIN AUDIO DEBUTS REAL TIME TRACKING AND WPS

Martin Audio has launched its latest Wavefront Precision optimised line array, WPS, as well the integration of BlackTrax real time tracking for its immersive audio experience, 3-D Sound Adventures.

Up first in the demo room was the debut integration between Martin Audio's immersive Sound Adventures and the renowned BlackTrax real-time tracking technology. Based on a ground-breaking new algorithm, which seamlessly converts Real-Time Tracking Protocol (RTTrP) signals to Open Sound Control (OSC) commands, the BlackTrax integration showcased how performers could be tracked seamlessly with both lighting and localised audio for a truer, more impactful AV experience.

This was followed by the US premiere of the latest powered point source series, BlacklineX Powered. Including the 12-inch XP12 and 15-inch XP15 full range enclosures plus the compact but powerful 18-inch XP118 subwoofer, BlacklineX Powered integrates acoustic, DSP and amplifier

technologies to achieve the clarity, precision and richness of tone that audio professionals will recognise as uniquely Martin Audio.

In addition, BlacklineX Powered offers optional Bluetooth control, streaming and a built-in 3-channel mixer, placing increased flexibility and features within easy reach of every user via iPad or iPhone—from live venues, DJs and corporate events to permanent installs, particularly houses of worship.

As a finale, the latest in the best-selling Wavefront Precision series was unveiled. WPS is a passive 3-way system which integrates a high density of drive units in a very compact enclosure. It features 2 x 8" LF drivers, 4 x 4" midrange drivers and 4 x 1" exit HF compression drivers loaded by a moulded HF horn which occupies the full width of the enclosure—defining the 100° horizontal constant directivity coverage pattern of both the HF and midrange sections. Eight WPS a side graced the stage

supported by four of the new SXC118cardioid subwoofers.

Summing up, Managing Director of Martin Audio, **Dom Harter** said, "Once again, we triumphed in the demo

performance and value for money that our BlacklineX Powered series represents. Finally, our thanks to BlackTrax for their support in real-time tracking which enabled a richer, more



room. It was fantastic to premiere the fourth product in our optimised line array series with WPS and I think we surprised many people with the

impactful presentation and gave an insight into to what our immersive Sound Adventures solution can offer to a production team."



## STAGE TEC LAUNCHES IP CONSOLE AVATUS

The color coding of the channel parameters guides the user intuitively and self-explanatory through the functions of the mixer. Each multitouch display can be used to control parameters of the audio channels in

depth, Avatus also has space in smaller rooms and offers a clear view of what is happening on the stage. With the remote control via an integrated browser application, the user has an additional tool, for example for setting up loudspeakers on or in front of the stage or to accompany the rehearsals directly from the auditorium. The most important parameters of Avatus can be achieved in the same color coding via the RUI.

A big advantage of Avatus is that the audio signal processing has been tried and tested many times over, as with Aurus and Crescendo, the DSP core RMDQ installed in the Nexus Star Router is used here. Embedded in the NEXUS network, AVATUS also has access to all inputs and outputs and can manage all resources. 128 freely programmable summing buses and up to 800 DSP channels are available.

Avatus is a logical evolution of

Stage Tec's mixing technology and preserves proven concepts - making it an ideal compromise between Aurus, which has been tried and tested for many years, and a tablet. "The IP console is backwards compatible and allows even long-term customers to migrate from legacy systems to Avatus without sacrificing the proven audio quality," said Stage Manager **Tec's Rene Harder**, who is responsible for innovation management. "Due to the flexible design of the interface without restricting the equipment, we want to venture into new markets that were previously difficult for us to access, for example, small production facilities, studios and above all the live area."

The scaling of the user interface has no influence on the number of channel numbers or the functionality. Like all other Stage Tec consoles, Avatus is constantly evolving. Thus, as the latest release, the scene automation as well as the automixer and dynamic Nexus labels were implemented.

Stage Tec's new Avatus, a fully IP-based console. Reportedly, with Avatus - a new mixing console surface based on IP technology - Stage Tec relies on a completely new operating concept. Unlike previous consoles, centralized operation is not required. 12 color coded faders, two 21 "multi-touch displays and 48 double rotary encoders per unit can be combined to sizes from 12 to 96. Modular, decentralized and yet freely configurable, users can access all parameters at any time.

a detailed view, as well as to call up the functions of monitoring or a current status of audio channels. Visual feedback from various operator actions give the user security and an overview of his work. With its new patented concept of color-coded faders, Stage Tec supports a fast workflow.

With detachable metering displays and a significantly reduced overall



## Powered System

### AC-28 & MP-18B3

Two way Line Array Speaker & Powered Sub-woofer



### AC-210

Two way Powered Line Array Speaker



### AC-112

Two way Powered Line Array Speaker



### AC-12

Three way Powered Line Array Speaker



### AC-218B

2\*18" Powered Horn-Loaded Sub-woofer



### AC-212

Three way Powered Line Array Speaker



## XP-SERIES DSP

XP-2060



XP-4080



## MAC-D SERIES POWER AMPLIFIER

MAC-7202D



MAC-8202D



## MA-D SERIES POWER AMPLIFIER

MA-7200D



MA-8200D



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## STUDIOMASTER PROFESSIONAL LAUNCHES THE XR 80LL LAPEL WIRELESS MICROPHONE SYSTEM

The XR series from Studiometer Professional is one of India's most sought-after ranges of wireless microphone systems. With impeccable sound quality, guaranteed operational reliability, and cost-effective pricing, the XR series has something to offer for a wide variety of applications.

The ever-evolving family is now set to welcome its newest member, the XR 80LL. Part of the XR 80 series, the lapel + lapel wireless microphone system features 80 selectable UHF channels. Just like all models in the XR 80 series, two microphones (handheld or lapel) can be used at the same time. Setting up the system is easy with the Infrared (IR) auto-connect



technology.

Both the transmitters and receiver feature clear backlit displays to show useful information, even in dimly-lit environments. The compact receiver has provisions for individual channel output via balanced XLR with level control and also a 1/4" mix output for added ease in connectivity. The

lapel microphones can be powered via 2 x 1.5V (AA) batteries and they offer significantly long operation time of approximately 6 hours. With the addition of the new model, the XR 80 series is now available in 3 variants - XR 80HH (Handheld + Handheld), XR 80HL (Handheld + Lapel), and the new XR 80LL (Lapel

+ Lapel).

With so many features integrated into a nifty package, the XR 80 series is ideal for a plethora of professional touring, PA, and singing applications. All the three XR 80 variants are readily available at authorised Studiometer Professional outlets across India.

## DYNACORD INTRODUCES SONICUE SOUND SYSTEM SOFTWARE

Designed to solve the real world challenges of sound engineers for whom time is always of the essence, SONICUE is Dynacord's new system-focused software. It supports Dynacord TGX and IPX series amplifiers, as well as all amplifier models fitted with the RCM-28 OMNEO Network & DSP Module. SONICUE's unique interaction design provides a clear and comprehensive system overview, making it quicker to set up, tune and operate sound reinforcement systems with minimum effort.

Reportedly, SONICUE is designed to meet the core philosophies of simplicity, clarity and transparency, while addressing the entire sound system. System designs can be produced from scratch or based on imported files from

loudspeaker prediction applications – such as the forthcoming PREVIEW software from Electro-Voice. The new user interaction design ensures operators have barrier-free, direct access to every sound system parameter, even directly from the loudspeakers.

SONICUE's multi-stage flyout concept makes it easy to retrieve the overview and make adjustments while monitoring parameters from the sub menu bar, all without the need to close menus. Frequently used functions can be pinned either temporarily or permanently.

With automated design and configuration checks for peace of mind plus practical features such as the zoomable, multi-layer workspace, SONICUE is truly developed around



the sound system designer. Designed for touch and mix operation, SONICUE is available for Windows, while future releases will support OSX, Android, Linux, and iOS.

SONICUE is a system-based solution which can be understood by users at every level, helping them get the job done no matter how simple or complex it may be.

## CODA LAUNCHES COMPACT 2-WAY POINT SOURCE SYSTEM

CODA Audio has unveiled its new ultra-compact 2-way Arrayable Point Source **N-APS**.

The hi-fidelity N-APS is designed to deliver large dynamic range, increased flexibility and variable horizontal directivity for small to medium size venues.

N-APS is effectively the supercharged smaller sibling of CODA Audio's APS system, and includes technologies such as the RDC Driver

(Ring Diaphragm curved-wave-driver), Dynamic Air



Cooling (DAC) and InstaFit Magnetic Coupler. DAC technology dramatically improves heat dispersion, doubling the power handling and maximum SPL capability compared to a conventionally cooled system.

With a single quick release button, N-APS allows the user to easily change its unique InstaFit Magnetic

Coupler (available in 60°, 90°, 120° or asymmetrical horizontal coverage) enabling the required dispersion characteristics to be achieved without the use of any tools.

Complementing the launch of N-APS, CODA Audio also introduces N-SUB, a compact 15" high output subwoofer that reaches as low as 30Hz. Like N-APS, N-SUB benefits from DAC which allows it to reach high SPLs whilst staying completely cool.

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# AMPS

# mixers STABILIZERS

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## DBTECHNOLOGIES APPOINTS SALES MANAGER FOR INDIA

Italian professional audio manufacturer **dBTechnologies** has appointed **Saikiran Shetty** as Sales Manager for India.

Shetty is an accomplished sales professional with over 20 years experience in A/V industry exploring Corporate, Retail, and Channel Sales aspects of the business. In the last few years he focused in the Touring Audio product line serving as National Sales Manager – Touring Audio with Harman India.

Based in Mumbai, Shetty will support dBTechnologies brand development in the local market personally dealing operations for touring series VIO, DVA, DVX and INGENIA.

“My role in the company will be that of a catalyst in the Indian professional market” states Shetty. “This area is witnessing a steady growth and I will be on-site to improve the company’s agility and turnaround time in addressing the customers’ requirements.

When I met dBTechnologies team

in Italy, I’ve immediately resonated with their value system, passion and commitment. And hence, the partnership was natural. I look forward to make use of all my experience and be able to amplify our reach to the consumers.”

dBTechnologies Sales & Marketing Director **Giovanni Barbieri** explains the reasons behind the new appointment:

“The company’s market share in Asia is dramatically increasing in the last two years, especially for what concerns the touring & installation segment. We are at a point where dBTechnologies is ready to leave its mark in India. This is the reason for which we need focused sales professionals on the field, ready to successfully implement our strategy and take advantage of the market opportunities ahead. I’m more than certain that Mr. Shetty will be the right person to usher in this new approach to the local professional market.

“We are fortunate to have



**Saikiran Shetty (c) with Giovanni Barbieri - dBTechnologies Sales & Marketing Director (I) and Manuele Poli - dBTechnologies APAC sales Manager**

someone of Shetty’s caliber and experience step up to help us to develop the brand’s potential in India”, adds dBTechnologies APAC sales Manager **Manuele Poli**. “Our flagship line array and sub series VIO is getting great feedbacks in APAC

area and worldwide, and I’m sure there’s still a huge potential to be developed, especially in India”

Shetty will also operate on behalf of dBTechnologies in cooperation with Indian distributor Rivera Digitec for what concerns retail market.

## CIRCLE PAVE GLOBAL SOLUTIONS LLP, ONE STOP SOLUTION FOR PRO SOUND & LIGHT INDUSTRY

Two years ago, **360 Pro Solutions** been established with an aim to provide all audio & video solutions under one single roof. Two companies sharing the same aim and vision took this initiative to provide cost effective good brands to all the customers available in the market. However, due to the government regulatory policies, the company was unable to roll out in the market.

But today, both the groups have again taken a step towards their aim



and have started another company namely **Circle PAVE Global Solutions LLP**.

Circle PAVE Global Solutions LLP is a one stop for all the solutions related to audio, video, & lighting managed by two of the most

experienced person who has been in this field for a very long time i.e. **Biren Sheth** (Owner of Kiran Sales Corporation) & **Sachit Subramanian** (Partner at Circle Pro Audio LLP).

Reportedly, last year Circle PAVE was awarded the sole distribution

for Italian Cable manufacturing giant EuroCable and Link Group for their products. Eurocable is specialized in the design and production of special cables dedicated to the entertainment industry. The product range is comprised of audio, video, DMX, Ethernet and Fibre optic cables, manufactured with strict attention to flexibility and stringent electrical specifications which follow the highest market standard requirements. Eurocable has produced a unique brand of hybrid cables for the transport of different signals and custom cables.

This year, again Circle PAVE has been awarded with the distribution of LeMark Dirty Rigger & Arno.

Circle PAVE is also in talks with Agora Ghost. Agora designs and manufactures digital Networked audiovisual products and solutions for the live and entertainment industry issued by a significant experience of the real-world usages and needs.

Ghost is a gigabit platform mounted in a 19” 1U rack box dedicated to the multiplexing, transport and monitoring of true Ethernet broadcast signals.

## ADAMSON EXPANDS IS-SERIES

Adamson Systems Engineering has expanded its install-focused IS-Series with the launch of the **IS219 subwoofer**.

The IS219 is a high-powered subwoofer intended for use in ground-stack configurations and to fit into compact spaces. The enclosure is loaded with two lightweight, long-excursion 19” SD19 Kevlar Neodymium drivers utilizing Adamson’s Advanced Cone

Architecture and a dual 5” voice coil for exceptional power handling.

The cabinet construction uses marine-grade birch plywood as well as aircraft-grade steel and aluminum and is equipped with two front and back Speakon NL4 connectors, or barrier strips available upon request. The IS219 ships with removable handles



for easy maneuverability while allowing it to fit into tight spaces when the handles are removed, and its 20-in. height ensure it can easily fit under a standard 24-in. stage.

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Bangalore  
Tel: 080-22235445  
rivera@riveradigitec.in

New Delhi  
Tel: 011-42480125  
skgadia@hotmail.com

Kolkata  
Tel: 033-22804097/96  
galaxydigital@vsnl.net



## EVENTECH ACADEMY'S INAUGURAL MONITOR MIXING SUMMIT A GRAND SUCCESS

The recently concluded Monitor Mixing Summit 2019 by EventTech Academy, an initiative by Warren Dsouza's SOUND.COM, witnessed enthusiastic participation from the live sound industry in India as 190

ers varied from basics, to applications to advanced techniques in Monitor Mixing.

The day started with delegates with body packs all glued to the various Applications workshop, kick-started by **Fali Damania** with a session on **The**

Damania.

This session was followed by a session by **Ashish Saksena**, who let delegates in on his **Monitor Mixing Strategies for Shankar, Ehsaan & Loy** while also elaborating on **Challenges of Mixing Monitors**

Dossier.

Post lunch, **James Baker** from Avid Technologies addressed the audience. **Foldback around the Globe and In Kim Wilde & Chic Ears** was the focus for this session.

**Mark Thomas & Raghu Raman-kutty** from SOUND.COM took to the stage to unfold how they **Share & Split Monitor Duties over 32 Busses for AR & Band**. Mark Thomas also elaborated on the aspect of **Mixing Monitors for AR Rahman**.

**Vanshaj Sharma** of Hi-Tech Audio Systems, along with moderator for the day – **Fali Damania** concluded the applications workshops with a peek into the world of **3D In-Ear Mixing and Monitoring** using state-of-the-art solutions by Klang Technologies.

The programme concluded with two panel discussions boasting of all the speakers as well as other stalwarts from the audio, events and music industry. These panel discussions provided the delegates an opportunity to interact with the panelists and get answers to their queries.



**Ashish Saksena explains his Monitor Mixing Strategies for Shankar, Ehsaan & Loy and Challenges of Mixing Monitors from FOH for KK**

delegates from across India congregated at the Dublin Square, Phoenix Market City, Kurla, Mumbai on 6 August, 2019.

The aim of the Summit was to fill up a void for audio education in the live sound realm. The initiative delivered much-needed learning and training for busy audio technicians jumping from gig to gig, who would have otherwise found it difficult to enroll in fulltime courses to learn and stay up to date with ever evolving technology.

"I wanted to do something with education in India and I wanted to be in a completely neutral zone. I didn't want any involvement of SOUND.COM or Warren Dsouza, which is how I started EventTech Academy, which is for the engineers and by the engineers and everybody is as much a stakeholder as much as I am," said **Warren D'souza** – Founder of Event-Tech Academy.

"Monitor Mixing" was the chosen topic for this first Summit by Event-Tech Academy. The full-day programme commenced at 9:30 AM sharp and went on until 7:30 in the evening, followed by a meet-and-greet over snacks and drinks.

All the topics covered by the speak-



**(l-r) Fali Damania, Santana Davis, Vinay Agarwal, Daryl Sheldon, Alaap Gosher, Divya Kumar and Neeti Mohan discuss day-to-day challenges of concert monitoring and sound production quality for an Artiste on stage**

**Architecture & Design of a Great Monitor Sound.**

"I think it's an excellent initiative because everyone is in search of knowledge and information. All the information we are giving you here is real life and ready to use in the field," said Fali

from FOH for KK.

The morning sessions, before delegates dispersed for a short lunch break concluded with **Bruce Rodericks'** session which provided inputs on **Workflow of Prepping & Patching Monitor-world** as well as a **Festival Monitor Mixing**

The first panel discussion on **'The Art & Science of Monitor Mixing'** moderated by **Fali Damania** included speakers **Sameer Kriplani, Kuber Sharma, Mark Thomas, Bruce**

*(Continued on page 28)*

## YAMAHA STAGEPAS 1K OFFERS ENHANCED PORTABILITY AND POWER WITH REMOTE EDITING APP FOR ALL-IN-ONE PA SYSTEM

Yamaha's latest innovation STAGEPAS 1K portable PA system is a more powerful yet compact system.

The STAGEPAS 1K is driven by a high-frequency array speaker packed with 10 small-diameter 1.5" drivers that provide professional-level accuracy and clarity.

The system features a 1000W Class-D amplifier, a significant upgrade in power from its predecessors, the STAGEPAS 600BT and STAGEPAS 400BT. A

12" subwoofer was developed to simultaneously house the sizable speaker and improve portability with its streamlined construction and reduced weight. To provide a clearer, stronger, distortion-free low end, Yamaha added the company's own Twisted Flare Port technology to the subwoofer to effectively reduce wind noise in the bass reflex port. The array speaker is simply affixed to the subwoofer cabinet, requiring no cables or speaker stands, for a fast and easy setup.

The free STAGEPAS Editor iOS/Android app allows users to operate their remote parameter adjustments of volume and EQ. Additionally, to enable a more efficient rehearsal and performance workflow, settings may be saved and recalled for future sessions.

The 5-channel digital mixer, located

in the back of the subwoofer, features three channels of mono microphone/line inputs and stereo inputs, with two of the mono input channels fitted with Hi-Z connectivity for direct input of acoustic-electric guitars and other instruments. Like its predecessors, this mixer supports 1/8" mini jacks, playback with Bluetooth devices, as well as a wide range of input sources from instruments to CD players, PCs and smartphones. The mixer also comes equipped with professional-level sound engineering tools, including 1-Knob EQ that handles multi-band processing simultaneously, high-quality SPX digital reverb and an output Mode feature to adjust optimized compression settings to suit various applications, such as Speech or Music. By selecting the setting closest to the application, a more professional edge can be added to

the sound without having to learn difficult compression/sound engineering principles.

The system also includes a carrying case to protect the speaker during transportation and storage, along with an optional DL-SP1K dolly for more convenient transportation.

"Our next-generation STAGEPAS PA system puts the emphasis on efficiency and performance," said **Nithin Cherian**, product marketing manager, Yamaha Professional Audio. "The STAGEPAS 1K combines the best of all worlds, offering professional functionality, simple operation and portability in a single package, along with a compact and powerful subwoofer necessary for performances that need a more robust low end or monitor mix."



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## ACOUSTIC ARTS EXPANDS INVENTORY WITH S-SERIES FROM ADAMSON

**Acoustic Arts** is a live event production firm based in Mumbai. They provide professional sound, lights, & truss equipment for touring, outdoor events, festivals, corporate awards and presentations. The company recently expanded its audio inventory with Adamson's S-Series speakers. The deal was done through **Vardhaman MegaTech** and system supplied by Adamson distributor **Sonotone**. Acoustic Arts' new **S-Series system** comprises of **8 S10** high performance line arrays with **S119** subwoofers and Lab.gruppen **PLM20K44** amplifiers.

Savio Fernandes of Acoustic Arts,

comments, "We needed a system that sounds great and rigs easily and the S10 fit our needs perfectly. It is an excellent speaker endorsed by some of the best and busiest engineers in the business. We're extremely proud to be part of the Adamson Network."

"Firstly, the sound of the S10 is impactful and pristine across the board. In addition it is all packaged neatly in a sub-compact lightweight system. Even the coupling of the subs to the full-range boxes is very smooth," adds **Elvis Fernandes** of Acoustic Arts.

Savio Fernandes and Elvis Fernandes of Acoustic Arts



## EVENTECH ACADEMY'S INAUGURAL MONITOR MIXING SUMMIT...

(Continued from page 26)

Rodricks, Ashish Saksena and James Baker.

This closing panel discussion for the day comprised of an elite panel of Artistes - **Neeti Mohan** and **Divya Kumar**, Artiste Manager - **Alaap Gosher**, Event Manager - **Daryl Sheldon**, Production Manager -

**Vinay Agarwal**, Audio Rental Company Owner - **Santana Davis** and Sound Engineer - **Fali Damania**, discussing day to day challenges of concert monitoring, logistics & production behind the scenes as well as the all-important aspect of Sound Production Quality for an Artiste on stage.



Summit witnessed enthusiastic participation from 190 delegates attending the event



Panel discussion on 'The Art & Science of Monitor Mixing' (l-r) Fali Damania, Ashish Saksena, Sameer Kriplani, Mark Thomas, Kuber Sharma, James Baker and Bruce Rodricks

Each registered delegate also received a Certificate of Achievement post the event.

The Event was supported by **PALM technology** magazine, official media partners for the event. Translation partners - **Translation India**, accomplished live translation of the entire Summit in Hindi. The translation booth at the event was a major advantage for those who were more comfortable in Hindi.

"I think the Summit has been an overwhelming success and we have a rollercoaster plan for the future," concluded Warren.

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## COMMUNITY UNVEILS TWO MAJOR PRODUCT LINES

Community Professional Loudspeakers has unveiled two new major product lines - **L SERIES LVH-900** loudspeaker system and **Amplified Loudspeaker Controllers (ALC)**.

The new L SERIES LVH-900 Beam forming Venue Horn, combined with Community's proprietary room prediction software and Amplified Loudspeaker Controllers, precisely tailors the directivity of each loudspeaker, or array of loudspeakers, to meet the sound requirements in any application. Designed for exceptional performance in large venues, each LVH-900 consists of four 12-inch LF drivers, three Community

M200 midrange compression drivers and four 1.5-inch HF compression drivers. Using patent-pending techniques, all drivers integrate into a single tri-axial waveguide that fills the entire 36 x 31-inch face of the enclosure, providing pattern control to below 200 Hz. The LVH-906 and LVH-909 offer 60 or 90 degrees of fixed horizontal dispersion, respectively, with each allowing vertical dispersion beam forming ranging from 60 to 20 degrees, in symmetric or asymmetric configurations.

The new Amplified Loudspeaker Controllers (ALC) are designed to provide all of the signal routing,

zone switching, DSP processing, protective limiting, remote monitoring, and amplification functions needed between a mixer and the loudspeakers in virtually any small to medium-sized Community loudspeaker installation. Standard Ethernet communication protocols allow for fast system design, system control, and remote system monitoring. Analog and Dante® inputs included in each model are assignable per channel in static or failover/backup configuration, supporting quick and easy integration into any new or existing system. The line includes the ALC-404D (4



channels x 400W), the ALC-1604D (4 channels x 1600W), and the ALC-3202D (2 channels x 3200W).

## BETA THREE'S DT SERIES PROFESSIONAL POWER AMPLIFIER & TLA121-11 LINE ARRAY SPEAKERS

DT Series Professional Power Amplifier & TLA121-11: Dual 12" Line Array Speakers were introduced into the market early this year and are already receiving tremendous market response and reactions, helping to further enhance relationships with our customers.



Beta Three DT6004

Beta Three DT8004

### A) PRO AMPLIFIERS:

#### 1) DT Series Professional Power Amplifier

DT series is multi-channel professional amplifier is based on the efficient thermal distribution structure of security uses mature concise output circuit with precise detection and protection control, entirely designed for achieving the goal of outstanding reliability.

DT series meets the needs of multi-purpose sound reinforcement applications with standardization of design and complete product line.

#### Key Features:

- Multi-channel professional Power amplifier
- Available in 2 Channel and 4 Channel modes
- Operates within 8Ω and 4Ω loads
- Availability of Three optional sensitivity Switch
- Protect, peak and signal LEDs indicators for each channel
- High power supply system and efficient output level
- Housed in a rugged, all-steel 2U chassis

#### chassis

- Electronically balanced XLR inputs
- Amplifier protection includes short circuit, excessive temperature and DC on outputs

### B) LINE ARRAY SERIES:

#### 1) TLA121-11: Dual 12" Line Array Speaker

TLA-121II is medium size line array speaker system, which can hang 12pcs TLA-121II speaker at its maximum in vertical direction.



TLA-121II adopts multi-functional structure design, suitable for live performance and fixed installation.

#### Key Features:

- Dual 3" Neo compression driver
- Dual 12" Neo woofer unit
- Dispersion angle 60° x 30°
- Frequency response 70Hz-17kHz (-3dB)
- Sensitivity: NF 99dB, FF 103dB
- Max SPL: NF 121dB/127dB(Peak), FF 124dB/130dB(Peak)
- The driver have function of overload protection
- Appropriate hanging frame with shackle for installation

## ALTO PROFESSIONAL SHATTERS EXPECTATIONS WITH UBER FX NO-COMPROMISE HIGH-POWER PORTABLE PA SYSTEM

Alto Professional has introduced its powerful new **Uber FX** portable PA system, suitable for the most demanding assignments, indoors or out, regardless of whether or not there is access to AC power. Uber FX is a self-powered portable wireless speaker with Bluetooth technology and professional features. It's the perfect solution for delivering hours of

clear, punchy, high-fidelity sound from a wide variety of wireless or hard-wired signal sources to any venue.

Uber FX is ideal for musicians performing outdoors who can't be limited by their access to AC power and who still want to have all the versatility and capability of a great studio-based sound system. Uber FX delivers, on all counts, with its

15 built-in FX by world-renowned Alesis and a 2-band EQ for precise tonal adjustment. But it's not just for musicians—it's also perfect for business meetings, backyard parties and award/graduation ceremonies. No AC power is no problem for Uber FX.

The unit features two input



(Continued on page 32)

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## ProZoe Series

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## CM-C54T AND CM-C56T CEILING LOUDSPEAKERS ADDED TO PIONEER PRO AUDIO'S PRODUCT LINEUP

Pioneer has announced the addition of a new range of ceiling speakers to its Professional Audio lineup. Reportedly, this new ceiling loudspeakers will provide high-quality sound to commercial environments, and debuts with the release of the CM-C54T and CM-C56T. Offering crystal-clear audio, a discreet embedded design, and a host of practical features, the CM-C54T and CM-C56T are ideal for installations at hotels, restaurants, commercial spaces, and other locations where superior sound and aesthetics are key.

The CM-C54T and CM-C56T draw on Pioneer Pro Audio's heritage of making dynamic club speakers and enable the brand to provide turnkey sound systems that can save space, complement interior

design, and deliver outstanding sound quality in any venue, no matter its layout.

The CM-C54T and CM-C56T ceiling loudspeakers will be available from Aug 2019.

Find out more about the speakers at the Pioneer Pro Audio website.

### Key Features of the CM-C54T /CM-C56T

- The newly developed ¾-inch tweeter incorporates a magnetic fluid field design driver as well as a unique damper to reduce vibration and produce clear, smooth audio.
- The coaxial driver establishes a uniform sound field within the coverage area and prevents phase cancellation between the mid and high frequencies. An impedance of 16 ohms gives high and low

impedance options. And, with a protective steel-back can, the compact ported enclosure on the CM-C54T and CM-C56T enhances low-end frequencies.

### Designed for Flexibility

- The CM-C54T and CM-C56T can be used in a variety of applications. On their own, they're ideal for delivering sound in commercial spaces, or they can be used to complete an installation of XY Series speakers by filling in areas where wall-mounted boxes are unsuitable, such as corridors and bathrooms.
- The Euroblock connector enables easy loop-through and the built-in transformer tap allows for multiple deployment configurations over a variety of distances.

### Discreet Speaker Grilles to Complement Interior Design

- With a slim, simple design that sits flush with the ceiling or wall, the CM-C54T and CM-C56T speakers can blend seamlessly into any surroundings.
- Two colors are available – black or white.
- With paintable grilles that feature a flush fit with the ceiling or wall, the new speakers are easy to incorporate into the design of any room.



## D&B AUDIOTECHNIK INTRODUCES NEW A-SERIES

The all new A-Series introduces a unique loudspeaker concept with flexible splay angles, this system addresses a wide range of medium size applications where the highest levels of coverage flexibility are paramount.

Realizing all the adaptability of a point source cluster with the extensive control options of a d&b line array, the system comprises the AL60 and AL90 loudspeakers, with ALi60 and ALi90 offering cabinets designed specifically for permanent

installation.

Both loudspeakers share a passive two-way design featuring one 1.4" exit HF compression driver with a 3" diaphragm mounted to a wave shaping device, and two 10" neodymium LF drivers. The combination of sophisticated waveguide design and the symmetrical dipolar arrangement of the LF drivers allows a smooth overlap of the adjacent frequency bands in the crossover design. The wave segments of each cabinet

couple without gaps and sum up coherently.

Using the appropriate frame, up to four AL60/AL90 loudspeakers can be flown either in vertical columns or in horizontal clusters. Variable splay angles between adjacent cabinets can be set from 20-degree to 40-degree in 5-degree increments, allowing the finest of adjustments and ensuring sound is directed precisely where it's wanted and nowhere else.

With its 60-degree horizontal directivity pattern the AL60/ALi60 can be maintained down to approximately 550Hz, while its output capability can cover a distance of up to 30m depending on climatic conditions. The AL90/ALi90 - with its 90-degree horizontal pattern control down to 370Hz -- is both sonically and mechanically compatible, ensuring the same optimal acoustic result is achieved consistently anywhere, at any angle -- whatever the configuration.

Constructed from marine plywood, the AL-Series cabinets have an impact



and weather protected PCP (Polyurea Cabinet Protection) finish.

The companionable four channel 30D and D80 amplifiers provides extensive user-definable equalization containing two 16-band equalizers with parametric, notch, shelving, and asymmetric filters as well as delay capabilities of up to ten seconds.

It's always been the d&b approach to build integrated sound reinforcement systems that are actually more than the combination of parts. 2019's A-Series expands this idea even further, stretching loudspeaker capability beyond flexible. Like all d&b systems, A-Series fully integrates with the internationally adopted d&b Workflow, unlocking its full potential through streamlined system design and optimization, control, and monitoring.

## ALTO PROFESSIONAL SHATTERS EXPECTATIONS...

(Continued from page 30)

channels, each with its own independent volume control. With 100 watts of peak power driving a high-quality 8-inch 2-way speaker, a high-quality microphone, and a long-lasting 45-hour rechargeable battery, Uber FX is ready to take on any challenge.

- Portable self-powered PA speaker with professional capabilities
- 100 watts (peak) drives high-quality 8-inch woofer, 3-inch tweeter
- Two Line/Mic channels with XLR/1/4" combo inputs
- Streams music wirelessly from any

Bluetooth-enabled device

- NFC pairing and 1/8" stereo aux channels
- Master Volume, Line Out and battery level indicator
- Built-in rechargeable battery delivers up to 45 hours continuous use
- High-quality microphone and cable included
- USB charging port for phone, tablet or other device
- Top panel storage tray for Smartphone's, keys, guitar picks, and more
- Telescoping handle with built-in wheels for easy transport



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## YAMAHA'S NEW PC SERIES NETWORK POWER AMPLIFIERS WITH DANTE CONNECTIVITY AND EXPANDED INPUT MATRIX

Yamaha has introduced its new next generation of network power amplifiers, designed to meet the challenging demands of today's installed and live sound applications. Reportedly, the new **PC Series** offers significant enhancements over previous models, adding Dante audio network connectivity, a powerful 20x8 input matrix, sampling rates of up to 96 kHz and a broader range of on-board digital signal processing (DSP) functions including crossovers, delays, parametric EQs, mutes and limiters.

The new amplifiers are compatible with Yamaha ProVisionaire Control/Touch software for control and monitoring via a tablet or PC, even in systems without a console or hardware controller. Amplifier parameters and configuration settings can be set quickly either on the amplifiers' front panel or through the dedicated ProVisionaire Amp Editor Management software.

The PC Series models deliver



sampling rates of up to 96 kHz and advanced on-board digital DSP functions including crossovers, delays, parametric EQs, mutes, and limiters.

The amplifiers' extensive processing capabilities are useful for controlling speakers and users can output equalized audio (up to four channels) to other amps by using the input matrix and Dante outputs.

A high-efficiency Class-D amp unit delivers low distortion with high efficiency to produce superb sound quality, high output, and excellent stability. The PC Series comes with

power output options of 1200W (models PC412) or 600W (models PC406).

The series offers DI models, for installed sound applications, which can handle high-impedance connections, allowing them to drive multiple speakers from a single channel. They feature 3-pin block connectors for analog in and RJ45 connectors for Dante. The new D models are for touring applications, with SpeakON connectors, etherCON connectors for Dante and XLR connectors for analog in.

"The new PC series gives touring engineers and system integrators a strong foundation for building and designing the right system for their clients, in less time and with more flexibility for growth," said **Glenn Booth**, director of marketing, Professional Audio, Yamaha Corporation of America. "The combination of powerful hardware, intuitive software, and network connectivity provides a consistent operational experience from system configuration to control and monitoring."

## BARCO EXPANDS ITS PROJECTOR PORTFOLIO WITH THE LAUNCH OF G60 SERIES

Barco has announced the launch of its G60 series projectors. With this introduction, Barco has expanded its outreach to a wider range of market segments with higher affordability & more installation flexibility.

The G60 series expands the single-chip offering with three quality projectors between 7K and 10K

lumens. It opens up the possibilities to a wider range of applications while still relying on the valued Barco service and support. The projectors feature laser light source, ensuring pristine image quality while lowering the maintenance required compared to most lamp-based projectors. With Barco's Projector Toolset software, installing and managing projector(s)

allowing the user to increase the image size or shorten the projection distance, ensuring that the product is the perfect match for space-constrained installations.

Commenting on the launch, Mr **Ramya Chatterjee**, Director – Sales (Visualization & Entertainment), **Barco Electronics India** said, "We always look forward to innovating, keeping

quality, flexibility and compactness to ensure a seamless experience for the customers at affordable price points. The range is expected to see strong interest from market segments like convention centres, hotels, experience centres, museum, planetarium, visitors' attractions, amusement parks, corporate lobbies, retail experience and higher education."



**Ramya Chatterjee, Director - Sales (Visualization & Entertainment), Barco India**



can be done from the comfort of users' own computer.

Barco G60 series Projectors are compatible with the lens of PGWU series that further boost the flexibility of G60. Along with the compact form factor, there is also the possibility of working with short-throw lenses

in mind the need across sectors and to ease operational tasks. In line with our commitment to come up with cutting-edge technology, our customers can always rely on all the proven benefits of Barco's service and support. The G60 series projectors combine the best of

The projectors are available in black and white, allowing the user to choose the perfect fit for their environment. Having all this at a very competitive price turns the G60 series into an attractive package for all customers in its target market segment.



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## YAMAHA ANNOUNCES NEW VIDEO AND AUDIO COLLABORATION PRODUCT PARTNERSHIP WITH HUDDLY

Yamaha Unified Communications has unveiled its latest video and audio collaboration solutions. In this new partnership with Huddly, manufacturer of award-winning AI-powered conference cameras, the new Yamaha ESB-1080 Enterprise Sound Bar will bundle with Huddly's AI wide-angle USB camera to create the Yamaha Collaboration Kit.

"Meeting participants demand two things no matter where they're meeting: a seamless, intuitive experience and superior audio and video quality. As we continue to expand Yamaha's wide breadth of superior UC solutions, these requirements are at the core of our design," said **Michael Fitch**, vice president of sales and marketing at Yamaha Unified Communications.

"Yamaha has a well-deserved reputation worldwide for building high-quality audio products, and their UC portfolio is no exception. Our partnership is a terrific opportunity for end customers to experience their industry-leading audio, now combined with the high-quality, wide-angle, AI-powered video for which Huddly is known," said Jonas Rinde, Huddly CEO. "We invite everyone to come and check out the Yamaha Collaboration Kit at our booths."

The Yamaha Collaboration Kit



**The Yamaha Collaboration Kit (currently available only in North America) combines Yamaha's ESB-1080 Enterprise Sound Bar and Huddly IQ AI-powered conference camera**

(currently available only in North America) combines Yamaha's ESB-1080 Enterprise Sound Bar and Huddly IQ AI-powered conference camera, which is perfectly tailored to deliver a high-quality video collaboration experience unlike anything else. Yamaha's ESB-1080 provides an immersive feeling with clear, dynamic, full-range speaker output for conference rooms. The sound bar's two built-in subwoofers and bass-reflex port deliver clear, dynamic, full-range sound in conjunction with two dome tweeters and two woofers. Its conference mode preset is specialized

for installation in conference room spaces with enterprise-demanded functions for easy administration. The compact and elegant design, automatic sound optimization, and versatile mounting options make it ideal for various enterprise needs and designs. The Yamaha ESB-1080 is available as a perfect sound solution for any enterprise room to provide or expand speaker output, or as part of a bundled solution with the Huddly IQ AI-powered conference camera.

The Yamaha Collaboration Kit's camera provides 150-degree wide-angle 1080p video, an embedded

mic array, automated AI features, and the Huddly InSights analytics API. With the Genius Framing feature, the camera can automatically detect and frame participants in its field of view, eliminating the need to manually control the camera.

The Yamaha Collaboration Kit is best matched to medium-size conference spaces for remote collaboration and presentation with simple connections to a laptop and monitor. Purchase is simple and consolidated; reliable support is unmatched.

## LEA LAUNCHES CONNECT SERIES

**LEA Professional** has released the Connect Series amplifiers with four mid-power models of IoT-enabled professional amplifiers for the professional installation market. The **Connect 354**, **Connect 704**, **Connect 354D** and **Connect 704D** aim to "provide system designers and integrators simple and powerful solutions to drive their large-scale

installations with the capacity to support monthly recurring revenue (MRR) business models", states LEA Professionals.

"Our mid-power models are meant to be the installers go-to amplifier when designing larger, more complex systems for applications like airports, theatres, theme-parks, and stadiums. These are the venues where reliability and simplicity are critically

important and that is where our IoT enabled amplifiers will shine," says LEA Professional founder and CEO, **Blake Augsburger**.

The Connect Series is made up of two product families – the Dante Connect and Network Connect models. All four mid-power models are built with fully routable analog inputs and the 354D and 704D have the addition of Dante and AES 67 connectivity. All four models also boast three different ways of network connection using built in WiFi Access Point, connect to the existing WiFi network, or using a Local Area Network Ethernet connection.

**Jeremy Bules**, vice-president of engineering, notes: "We packed these amplifiers with essential features like our Proprietary Smart Power Bridge,

Universal Power Supply, direct LoZ and HiZ selectable per channel, and internal DSP - all in a one rack unit chassis. We really wanted these amps to be a great looking and slim fitting unit with the power, reliability, and simplicity that integrators know they can count on whenever they spec large-scale projects."

In addition to the product launch, LEA Professional has also released their Web App UI for control and monitoring the amplifiers. Reportedly, this user interface does not require a software download and works to control and monitor the amplifiers from any device, including a users' mobile phone, tablet or desktop computer. The Web App UI was designed for quick and simple navigation providing "an easy user experience".





## RECOGNIZING EXCELLENCE IN STAGE SOUND, LIGHTING AND ENTERTAINMENT TECHNOLOGY

---

Surveying the brands and product technologies in the market since the last 10 years, the PALM Sound & Light Awards has felicitated over 150 winners.

The objective of the awards is to identify innovations that change the paradigm of the pro audio industry.

The award keenly followed by one of the world's largest pro audio markets - India, witnesses eager participation by PALM expo exhibitors who send in nominations of products and technologies, which they consider as redefining the Indian market.

Major international global technology bands with leading technology like, YAMAHA, HARMAN, Bose Professional, d&b audiotechnik, Madrix, Osram, Clay Paky, to name a few, have come on to the PALM Sound and Light award platform to receive this esteemed award.

10<sup>th</sup> edition

**PALM** SOUND &  
**LIGHT** AWARDS

29 MAY 2020



## BOSE PROFESSIONAL AWOWS WEST & NORTH REGION PARTNERS WITH ABHINANDAN

### *Multi-city Dealer's Meet witnesses overwhelming participation and response*

Pro Audio major Bose Professional, recently reached out to the professional audiovisual community in India by organizing multi-city dealer meets in collaboration with distributors and channel partners. The well-appreciated and well-attended gatherings witnessed overwhelming participation and response and provided Bose Professional's partners and dealers an important overview of the company's strategies and products enabling them to meet their business goals, while also facilitating a one-on-one

interaction with the company's key executives. The events also celebrated the successful achievement of several business milestones that the brand had achieved down the years.

#### **ABHINANDAN WESTERN REGION**

Official distributors of Bose in the western region - **Cubix Microsystems**, organized the dealer's meet in the western region in three cities. The first dealers meet was in Pune, followed by Ahmedabad and finally Mumbai. Bose treated invited guests to demonstrations and product presentations of newly launched

products.

The meet, aptly titled **Abhinandan** (Greetings) was organized as a market connect to greet network and engage with partners comprising of ProAV dealers and Systems Integrators, while also recognizing and rewarding them for their unwavering support and persistent contribution to the Bose brand.

**Vibhor Khanna**, Country Manager – SAARC, Bose Professional, stated, "Abhinandan has been designed specifically to foster an enhanced progressive business ecosystem between Bose Professional and our

business partners. In addition to engaging with dealers and partners on a deeper professional level, Abhinandan has given us the opportunity to celebrate their successful association with Bose Professional products over the last financial year and duly recognise their contribution to the brand's growth in the region. Through Abhinandan, Bose Professional reaffirms its wholehearted support and dedication to all our partners, and fortifies its vision for long-term growth in India."

The gathering of dealers and



Team Bose with the system integrators and dealers at the Jaipur Dealer's Meet



(from l-r) Tejas Desai, Vijay Joshi, Vibhor Khanna, Vishal Kotian and Punit Kumar

systems integrators demonstrated strength of support for the brand as well as its long-term business allies - Cubix Microsystems, as almost 30-35 industry professionals comprising of professional audiovisual dealers and systems integrators followed the invitation to the full-day meet, in each of the three cities.

**Vibhor Khanna**, Country Manager – SAARC, Bose Professional and **Vishal Kotian**, Regional Manager- Channel Sales from Bose Corporations' Mumbai office, were joined by Vijay Joshi, Director, Cubix Microsystems to provide an overview of Bose Professionals' company and product strategies, along with detailed



introduction of specific new products, key messages to the industry, followed by a corporate video and one-to-one interactions.

"The presentations included key messages which we wanted to put across to our dealers, based on their previous year's performance, and also provide them a window to what's in store for them in the near future," said **Vishal Kotian**. "The idea behind conducting these events is to thank our dealers and systems integrators and to celebrate their business associations with Bose products since the last several years," he added.

The product introductions and demos in each of the cities culminated with an award ceremony, wherein Bose honoured those who had upheld and reinforced the Bose quality and stature with remarkable installations across the country. The winners were motivated and rewarded with high-quality gifts from the Bose bouquet of products.

"With this award ceremony, we recognized few partners, dealers and wholesale dealers for their exceptional performance and the growth that they had demonstrated," said Kotian.

#### ABHINANDAN JAIPUR

Building on the momentum, Bose Professional followed the interactions in the western region with the second leg of Abhinandan in Jaipur on 18th July, in collaboration with channel partners - **Delta Infotel & Hitech Audio Systems Pvt. Ltd.**, official distribution partners of Bose Professional in India.

The event attended by more than 100 industry professionals, again comprised mainly of Systems Integrators and ProAV dealers, who demonstrated their support for the brand by taking out time to attend the whole-day meet.

The meticulously planned event included informative sessions and discourses on technology, steady rise in market acceptance across application segments, positive business growth in the previous fiscal year, and also key insights into the brand's vision and strategy for the near future.

The product highlights at this meet included Bose Professional's



**Vibhor Khanna, Country Manager – SAARC, Bose Professional addressing dealers during the meet.**

full Range of loudspeakers along with live demonstrations of the **EdgeMax** in-ceiling premium loudspeakers featuring proprietary Bose PhaseGuide technology and the **PowerMatch** line of professional power amplifiers boasting of concert-quality sound

by using Bose products in major audio integrations. The gesture, was received by the audience with a great deal of pomp and enthusiasm in every city and proved to be a great shot in the arm for all who were in attendance.

with doing great work with Bose Professional products."

**Manik Gupta** of Hi-Tech Audio also shared his thoughts on Abhinandan saying, "Bose Professional has undoubtedly made a mark in the past year



**Vibhor Khanna and Vijay Joshi awarding partners during Dealer's meet**

with a high level of scalability and configurability.

Not only did the products impress the audiences in all four cities, but it has also proved to be successful in generating quite the business buzz for the EdgeMax and PowerMatch series products in the region.

In tandem with the award ceremonies organized in the Dealer's meet in the Western Region, the Jaipur event also recognized key partners who had demonstrated steadfast allegiance

**Vijay Joshi**, owner of Cubix Microsystems commented, "Abhinandan proved to be a great engagement exercise for Bose Professional as well as all the dealers and SI partners that have been consistently working with Bose Professional products. Not only has the brand conveyed its strong support to the entire dealership and SI partnership network, but by recognizing their works and achievements the brand has also added a feeling of prestige associated

across application segments, and through Abhinandan, we have felicitated all those partners who have contributed invaluable to the brand's growth. The fact that Bose has big plans for the future - be it in terms of introducing new technologies, implementing unique business strategies, and more - is a true testimony to the brand's long-term vision for India, and it is undoubtedly an exciting time for everyone associated with the brand."



## POWERSOFT APPOINTS SW INDIAN DISTRIBUTOR

### *PTC appointed Powersoft's Distributor in the region*

Powersoft has named Preeti Trading Corporation (PTC) its distributor for the region of South West India.

The company currently supports all kinds of commercial projects in the region, large and small, with its core customer base primarily consisting of small and medium-sized enterprises that sell and install audio equipment for use in commercial, governmental, corporate and public buildings.

"India is an extremely important market for Powersoft," said **Varun Mahesh Jagger**, Powersoft's Europe, India & Africa account manager – distribution. "We see great potential there for strong and consistent growth across all verticals. PTC has been appointed to reinforce that vision of a stronger India. It has a strong dealer network, and a



**Powersoft's Varun Mahesh Jagger with Kamal Dhingreja from Preeti Trading Corporation**

consistent record of moving with the times. We see them as a partner who has taken and continues to take risks in order to come out on top."

One of PTC's goals for the new partnership is to increase the

presence of Powersoft products in the region, thus making it easier to educate the industry about the brand and its innovative technologies.

"PTC is able to reach out to a wide range of potential resellers through

our strong and young energetic team. This gives us more avenues to arrange demo days and, in turn, makes it more likely that PTC dealers will include Powersoft products in their projects," said **Kamal Dhingreja**

## STUDIOMASTER PROFESSIONAL'S MINI SERIES - A NEW RANGE OF ULTRA COMPACT MIXERS

The Mini series is a range of ultra-compact mixing consoles designed by Studiometer Professional for a host of fixed and mobile applications. The series features two models; Mini 6 and Mini 6U. Don't be fooled by the name, they're both power-packed with features.

The mixers feature professional-grade 1/4" mic/line inputs with gain control, 2-band EQ per and clip LEDs per channel. The compact mixers also integrate a high-quality echo/delay EFX processor with unique E-delay. The inclusion of the delay processor empowers users to get creative while mixing, making it a great value addition to the feature set. Both the



Mini 6 and Mini 6U integrate 1/4" L/R output along with signal and clip LED indication for master level.

The Mini 6U sweetens the deal further with the integration of a

USB MP3 media player with transport control. It is also supplied with an IR remote control for wireless control of the media player. The built-in Bluetooth receiver in the Mini 6U also empowers wireless streaming from smartphones, tablets, laptops, and other compatible devices.

All the features are housed in a

sleek and ergonomically-designed angled body design that not delivers an easy mixing experience but also makes the mixers high portable for mobile and outdoor applications. The compact mixing consoles are perfect for use in houses of worship, small gatherings, karaoke bars, music jam rooms and a host of other professional and prosumer applications.

In a nutshell, the mixers are an ideal choice budget-conscious users who refuse to sacrifice sound quality, value, and reliability. The Mini 6 and Mini 6U mixers are readily available at authorised Studiometer Professional outlets across India.

## NEXT-PROAUDIO INTRODUCES PXA8001

NEXT-proaudio has developed a integrated rack solution **PXA8001** (powered by Powersoft), designed for optimum performance flexibility and setup simplicity.

The new rack is the heart of the system and was configured to interface seamlessly allowing multiple

configurations for the entire NEXT-proaudio's PX System, capable of driving a very wide range of rig configurations with absolute reliability and ample headroom.

Composed by a very powerful 8000W Powersoft amplifier module, featuring 4 output channels (4x2000W

@4ohm), that was specifically designed for multi-way loudspeakers and asymmetric loads, the heart of this power rack is capable of amazing sonic performances. The PXA8001 features a new power supply design equipped with PFC and featuring Smart Rails Management, to grant

incredible efficiency in all the driven ways. The high immunity to EMI interference is also a characteristic of this new rack.

This PX System Rack features a fixed switching frequency design of the Pulse Width Modulation

*(Continued on page 42)*



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SPECIAL OFFER



## MEYER SOUND GALILEO GALAXY LEADS THE WAY WITH MILAN CERTIFICATION FROM AVNU ALLIANCE

Meyer Sound has come up with **Galileo GALAXY** network platform, certified as fully compliant with the new, AVB-based, Milan deterministic network protocol. Milan certification, provided through Avnu Alliance, ensures that Galileo GALAXY processors will offer seamless interoperability with all other Milan-certified devices in the signal chain, regardless of function or manufacturer. GALAXY is among the first products to receive Milan certification.

The Milan certification extends to all three GALAXY versions: GALAXY 816, GALAXY 816-AES3 and GALAXY 408.

According to the organization, Milan is a high-level interoperability solution developed as a joint effort by a group of leading audio and IT manufacturers. As a deterministic network, Milan assures on time delivery of time-sensitive AV data

streams while co-existing with other Ethernet traffic with no risk of dropouts or degradation. As an open standard, Milan offers a choice of hardware implementations and will support both audio and video media.

"A few years ago Meyer Sound joined with a group of other leading pro audio manufacturers to tackle a problem common to all of our customers," recalls Meyer Senior Vice President of Marketing **John McMahon**. "And that was how to create a network infrastructure that is easy to use, offers extremely high performance, and provides future-proof flexibility. Building on the existing open AVB (audio video bridging) standard from IEEE, we developed Milan as the best solution."

The Milan-certified GALAXY is a full-featured, stand-alone loudspeaker processor. As such, it can connect not only to other GALAXY processors, but it also can serve as a master FOH



processor by connecting to third-party, Milan-certified array processors or processor-amplifiers, either directly or through a certified network bridge. GALAXY also can connect via Milan to a certified mixing console without need for its own network bridge.

"With this certification, Meyer Sound GALAXY becomes a pioneering device in what is becoming an integrated, networked AV ecosystem," says McMahon. "More Meyer Sound products are in line to be certified, and the list of manufacturers that

have signed on to Milan is growing fast. We expect increasing momentum toward widespread adoption throughout the industry in the months to come."

The Milan protocol is now supported by leading manufacturers of AV technology and associated components, including loudspeaker systems, digital signal processors, mixing consoles, network switches, and microprocessors.

## AUDIOCENTER'S NEW EA5 SERIES WITH BRAINCORE TECHNOLOGY

The **EA5 series** is Audiocenter latest active speaker, reportedly built with BrainCore, innovative core application technology that researched and developed by Audiocenter with supreme performance and high reliability.

The EA5 Series ranges from 200W RMS and goes all the way up to 1200W RMS in the EA5118 subwoofer.

EA5 Series have 5 models in total, EA508, EA510, EA512 & EA515 full range speakers starting from an 8 inch cabinet to a 15 inch cabinet that match with the single 18 inch EA5118 subwoofer.

All the cabinets in this series are equipped with Beyma HF's and customized Audiocenter LF drivers. Made from the highest quality CNC wood, the EA5 Series cabinet speakers are DSP controlled and have a range of protective modes that make this an all-in-one box.

The EA5 Series is specially designed for fixed installation like ballrooms, meeting rooms, lecture halls, exhibition centers, and touring performances such as road shows, seminars, speeches, etc.



### BrainCore™

BrainCore™ is an innovative core application technology researched and developed by Audiocenter, devoted to Audiocenter active DSP-controlled loudspeakers with supreme performance and high reliability.

With its advanced technology and scientific methodology, BrainCore™ analyses and processes the input signal, DSP module, Class D amplifier and loudspeaker optimally, achieving excellent frequency response and audio reproduction even at high levels of SPL.

#### ADVANTAGES



## NEXT-PROAUDIO...

(Continued from page 40)

(PWM) block allowing for maximum performance, high predictability and immunity from intermodulation artifacts; all this with an additional and extensive set of protection mechanisms (power limiters, thermal shutdown, short circuit and overload, clip limiter).

The DSP audio processor unit protects controls and optimizes



the entire system including all the necessary signal processing, crossover filters, PEQ filters, All-Pass filters, delays and limiters.

The built-in port allows to access DSP processing capabilities directly from the PC running Powersoft Armonia software. For a versatile use, 4 different presets that can be selected by the user, PXH64 Flat, PXH64 Music, PXH95 Flat and PXH95 Music.

The PX Complete System is a complete plug'n'play, processor-controlled, horn-loaded stacking P.A. optimized for flexible, high power and modular array configurations.

# TA-80

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**TA-80**



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# MI-909



## Digital Wireless Stereo IEM System

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MIPRO's MI-909, featuring the industry's smallest bdypack receiver, operates across 64MHz of bandwidth with multiple presets allowing 16 channel operations. With innovative digital technology offering a frequency response from 20Hz to 15kHz, 112dB of dynamic range, onboard DSP, and digital diversity reception, MIPRO's MI-909 system boasts unmatched features, digital audio clarity and functions that easily surpass the competition.



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## ALL THAT GOES INTO ENHANCING A LIVE STAGE PERFORMANCE

Nowadays live events have become core of the youth. There is euphoria about the live events which happens almost everywhere across the globe. People have been appreciating live music through live concerts, award functions and DJ nights across cities and consecutively initializing new opportunities for event professionals. As a result, live events and performers are now being critically judged on the quality of the performance. This is why it becomes essential for a professional artist to identify the right tools to make that performance a memorable one.

As soon as we speak about a live performance, what strikes in the first go is the 'Microphone', and undoubtedly it is one of the most crucial decision makers of the fate of the performance. Today we cannot imagine a world class music concert without some power packed stunts involved and this is possible because of the cutting edge wireless microphone system. These days' International artists such as Madonna, Beyonce, Enrique, Pink, etc. have been surprising the masses with their incredible acts on the stage all of which would have not been possible, without the proper wireless microphones systems which provide them with the freedom to do whatever they wish on stage.

Wireless microphone offers freedom to artists and sound engineers that allow them to move freely on the stage and capture and transmit sound at any situation and any event. For artists it ensures movement on stage rather than just statically standing in front of a platform which not only boosts their confidence on the act/gig that they are going to do but instead helps them to have a good hold on the device. Natural and expressive movement is encouraged, enhancing the overall impact of the act.

While the above highlighted handheld mics, let's also understand a bit about the headset microphones. These come into play when the whole emotional power and dynamic of a performance has to be conveyed to the audience. To accomplish that,



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

you need highly developed audio technology with lots of feeling one which works reliably under every condition.

There's also a play of stage lights that goes into creating that magical performance. Entertainment and or Theatrical lighting are used to enhance the scene. The lighting pulls all the aspects of the stage together to create a scene that draws at-

and the light should focus in on the picture that needs to convey the sense and feeling to what the audience is viewing.

Another very important aspect is something that comes before actual event. In a live event, a sound engineer plays a very crucial role in determining a performance's success. There are times when one witnesses bad quality of sound at the concerts. This could either be because of the inadequate acoustic products or unsynchronized management in an event. Evidently, sound engineer is the common factor in both the scenarios. Accordingly, sound engineer's job role incorporates many duties, making him all the more important in an event.

Besides, a decent knowledge of live sound engineering and concert sound engineering, a live event requires more than just plugging in some amplifiers and turning a few volume buttons, it demands skills and expertise of sound quality and electronics. Thus, without the sound engineer, monitoring and setting

between different paths with different jobs in the course of that event. The live sound engineer has the ownership to make adjustment to the stage details as per his best understanding. The venue manager also supplies him with the required manpower in order to help him stage the event. Hence, before setting up for any event, a sound engineer does a recce of the venue. He coordinates the sound quality basis and delivers the music inputs in the purest form. Therefore, he is very crucial to the smooth and successful execution of the live events. Similarly with a different venue at every event, there are different colleagues and different demands by every host. A sound engineer makes sure they please the music group and also ensures the audience enjoys the music event for its great audio output and experience. Furthermore the protagonist safeguards music equipment's consisting of amplifiers, audio lines, microphones, mixers, audio board and monitors, each of these having specific functions.

Though the above talks about the technicalities, there is also a lot of confidence and passion that goes into making a live performance even better. Confidence is the most important element anyone, on any stage, could have. Your audience knows what you are trying to put across and can easily understand if you are not completely into your performance. The passion with which you love your art is an energy that the audience looking at your performance can feel making the scenario surreal.

With the right instruments, attitude and scenario, one can make their live performance something that the audience can remember by for ages to come!

**“A live event requires more than just plugging in some amplifiers and turning a few volume buttons, it demands skills and expertise of sound quality and electronics. Thus, without the sound engineer, monitoring and setting audio equipment would transpire as a big task to complete.”**

tention to the main character. The lighting allows the whole piece to be embraced and supported. It's an art that magically subdues certain parts, or props and costumes to enhance the artist and showcase a proper relationship of the artists with their background and surroundings. Therefore, all objects that appear on the stage needs to be in balance

audio equipment would transpire as a big task to complete.

There are different venues and locations set for live events, requiring a different event setting altogether. A venue such as small lounge to a medium size ballroom or an outdoor arena, poses a challenge to sound engineers. A live sound engineer is solely responsible for reorganizing

**Next Issue  
September-October 2019**

**LIGHTING issue**

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## Touchwood Automations invigorates Pune's party scene with CINCO

*With growing number of clubs and lounges all over the city, we bring an install story that totally transforms pune's party scene with its state-of-the-art audio and video installations. PT documents the project.*



Outdoor garden area deployed with BenQ MX740 Screen

**N**amed after the Spanish word for 5, Cinco, is Pune's all-new resto-bar and patisserie that promises to make every experience 5 times better!

An indulgence for all the 5 senses, Cinco has a uniquely vibrant beauty that captivates from the moment one steps in, with the right kind of music to enliven the mood.

With a scenic Al Fresco arrangement and a cozy interior with an island bar and refreshing cocktails, one can soak up the sun and the moon, or party with high spirits until the sun comes out.

Maximizing the fun with themed week-nights and action-packed weekends, Cinco is the new party stop in Pune.

Located in the very centre of Pune, Cinco is spread over 8,000 sq. ft. area and is divided in 3 areas i.e. Club Area of 3,000 sq. ft., Outdoor/Garden Area of 3,000 sq. ft. and a closed Patisserie of 600 sq. ft. Rest of the area belongs to the Kitchen, Office, Washrooms and Staff Rooms.

Cinco was launched on 7th June 2019 with an invite only party and was open for public from 12th June 2019.

Cinco's Management involved Touchwood Automation around October 2018, during the planning and wiring stage to fulfil their audio and video requirements.

### Audio Installation

Cinco's management was very clear in their brief to Touchwood Automations. They needed a combination of Zones, all playing the same music at the same time. While they needed High Volume with DJ Console on a structured platform in one corner of club area, they need Patisserie Music to be mild which

could necessitate this area to have an independent Music Selection. Moreover they did not want any speakers to be visible in this area.

They required the Outdoor/Garden Area to be connected with the Club Area and have Live Gigs to be conducted in this area as well. The Active speakers and Stage monitors were to be connected to the Outdoor Installed speakers during the live Gigs.

They needed a different music to be played in the club area during live Gigs in the outdoors, however, when Live Gigs happen in





Indoor club area fitted with Audac PX112 Filler Speakers

the indoor Club Area, the Outdoor installed speakers needed to be connected to the same.

For sports viewing they needed 2 projectors in the club area and also needed 2 Television in the Outdoor Area along with an enormous 220" Screen in the Outdoors which could be spotted from a very far distance (Right from the Entrance of The

Mills). They also wanted the dance floor that is concentrated between the DJ Console and the Bar Counter to have more High-Volume Levels with Bass than the other areas.

The choices of products were completely entrusted upon Touchwood Automations by the venue owners who gave them the liberty in designing the solutions.

The only thing important for the management was the clarity of audio and video, and the ease in handling the system.

Touchwood's team finalized a combination of Audac products and some third-party controllers and mixers, after a detailed acoustical analysis of the space to meet the venue's aural requirements.

## Inventory List

### 1. Club Area -

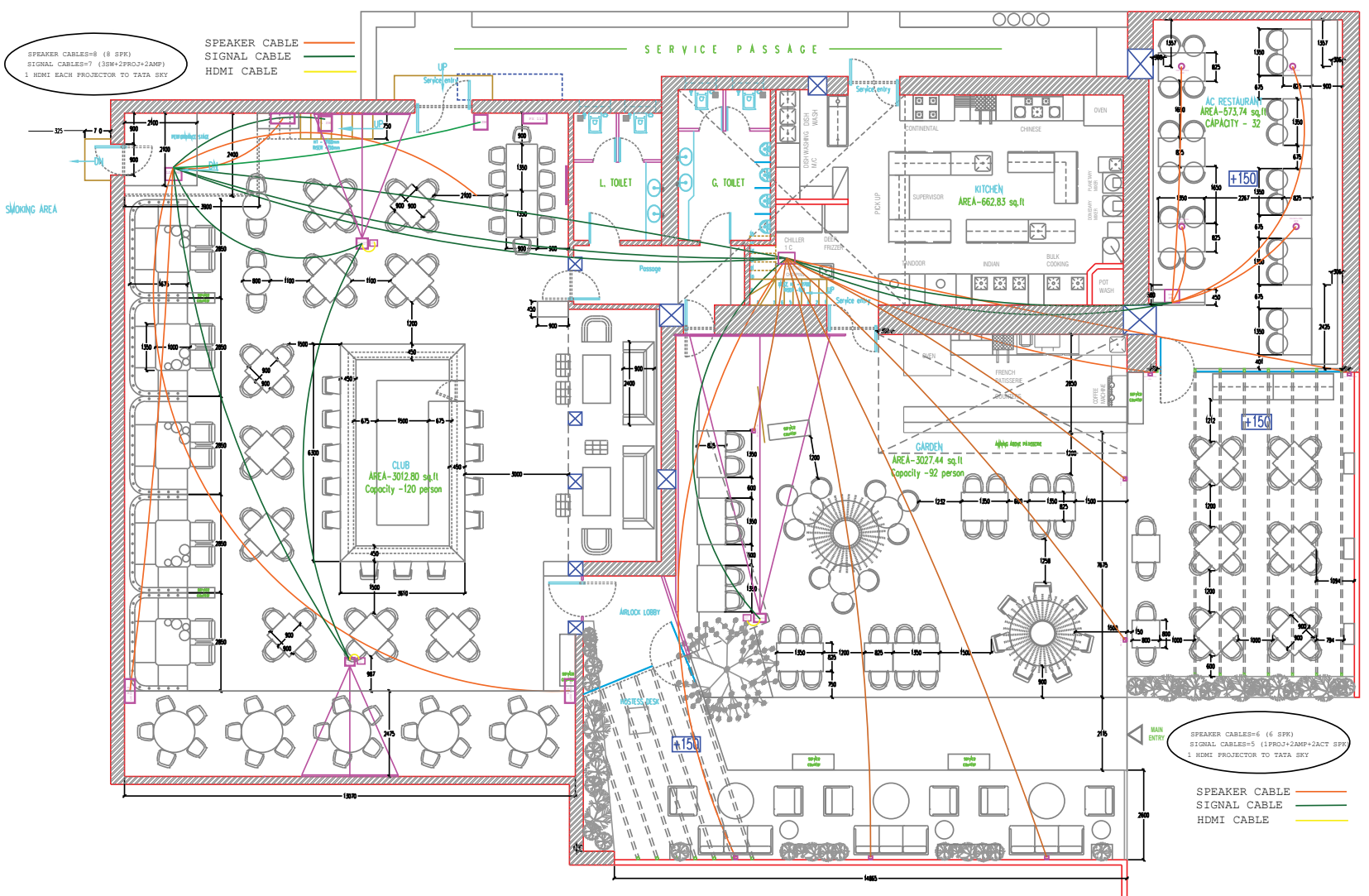
- **Audac FX 3.15** – 2 Nos. (Main Foreground Speakers) – 750 Watts RMS
- **Audac FX 1.18** – 2 Nos. (Main Foreground Bass Cabinets) – 800 Watts RMS
- **Audac PX 112** – 2 Nos. (Used as Fillers in the Club Area) – 300 Watts RMS
- **Audac SMQ-750** – 1 No. (4ch x 750Watts Amplifier) – For Bass Cabinets
- **Audac SMQ-500** – 2 Nos. (4ch x 500Watts Amplifier) – For Foreground Speakers
- **Audac SMA-350** – 1 No. (2ch x 350Watts Amplifier) – For the Fillers

### 2. Outdoor Area -

- **Audac WX-802** Outdoor Black Speakers – 8 Nos. (IP 55 Rated – 16 Ohms) 70 Watts RMS
- **Audac EPA 254 Amplifier** – 1 No. (4ch x 250Watts)

### 3. Patisserie -

- **Audac CELO 6** – 4 Nos. (High-End Ceiling Speakers of 60 Watts RMS)
- **Audac EPA 104** – 1 No. (4ch x 100Watts Amplifier)





## Video Inventory List

### 1. Club Area –

- **Epson EB-W05 Projector** – 2 Nos.
- **120" Motorised 16:9 Ratio Screen** – 2 Nos.

### 2. Outdoor/Garden Area –

- **Samsung 49" Digital Signages** – 2 Nos.
- **Benq MH740** – 1 No. (Giving 220" Screen Size from a distance of 28 feet with high Lumens)
- **220" Tab Tension Motorised**

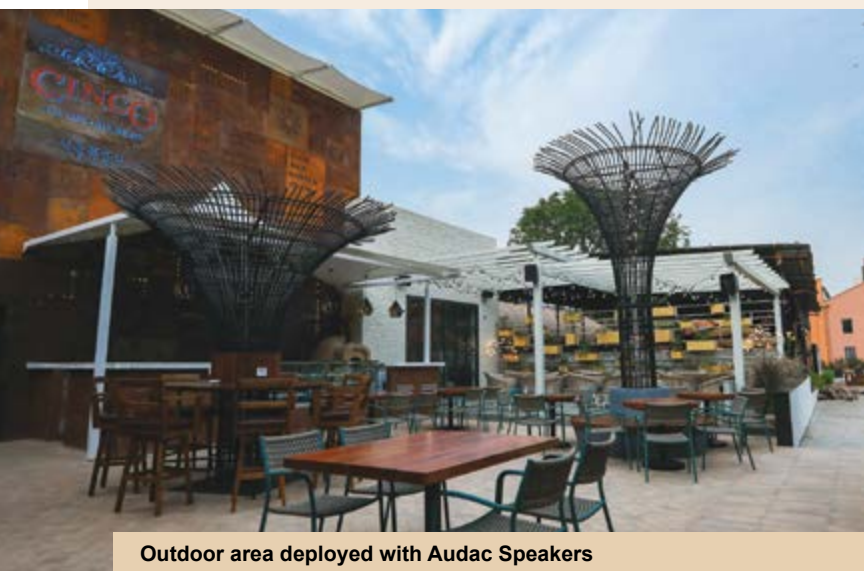
## Plan:

Touchwood's team designed the Cabling in a way so as to accommodate any addition of speakers, changes in the woofer placements and changes in the Portable systems for Live Gigs performance. The cabling layout was submitted to the Designers and the agencies and accordingly the cabling was initiated on-site. They used a

junction of all these cables is the DJ Console area; provisions are made to make any Zone Amplifier location as the main zone.

The foreground speakers used were the most high-end speakers from Audac- theFX 3.15 weighing around 50 kgs each and having old-school connections for mid frequency (200 Watts RMS), Low-Mid Frequency (500 Watts RMS) and low frequency (50 Watts RMS).

The combination of these 2 Foreground Speakers played a vital role in filling up the sound in the entire club and the massive 18" Bass Cabinets proved their worth by providing adequate energy to the room. The PX 11 speakers were planned and commissioned towards the end of the room as it needed to act as fillers to the main foreground speakers.



Outdoor area deployed with Audac Speakers

Kasper Conduit Install cable of 2.5 sq. mm. for the club and outdoor area, whereas the Patisserie is wired with Kasper 1.5 sq. mm. Conduit Install cables. They used over 700 meters of cables to accommodate any further change in the speaker/woofer placements.

The club area is equipped to handle more than 8 speakers and 4 woofers, while the outdoor area is designed to handle 8 speakers.

The DJ was provided with one of the latest Pioneer CDJ-2000NXS2 Players and DJM-900NXS2 Mixer, along with Yamaha MG10 XU Mixer, whilst the artist would be using the Yamaha MG16XU Mixer for live gigs coupled with Wharfedale Active Speakers.

300 meters of audio cable has been laid down for interconnections between the zones. The main

## Challenges:

The Installation phase proved to be challenging for Touchwood. Their plan of suspending the huge foregrounds speakers using truss, to ensure better coverage and dispersion at the right angle was objected by the management of the entire complex better known as 'The Mills' which is a century old cloth mill by the name of Raja Bahadur Mills next to Pune Railway station, stating that "No product can use the ceiling/truss for its installation." Although the heights were of 15 ft to 25 ft, the load bearing structure was

(Continued on page 54)



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# CONSOLES

*Spotlight on mixing consoles popular in India's entertainment venues (pubs / clubs)*

## Allen & Heath Qu Series

Qu mixers designed by Allen & Heath research and development team have earned the industry's respect. Its three different models i.e. Qu-16, Qu-24 and Qu-32, helps users to be confident that they will sound like a pro.

### Main Features include:

- 38 In / 28 Out Digital Mixer; 7" colour touchscreen'
- 32 Mono Inputs (TRS + XLR); 33 Motor Faders; 3 Stereo Inputs (TRS); 4 stereo FX with dedicated Sends and Returns
- 24 Mix Outputs (XLR); 4 Stereo Groups; 2 Stereo Matrix Outs
- Extra stereo outputs – AES digital, Alt Out, 2TRK out
- dSNAKE Cat5 snake for remote audio using AR2412, AR84 or AB168
- 4 Mute Groups; 4 DCA Groups
- AnaLOGIQ total recall analogue preamps
- Effects ported from the flagship iLive console
- Dedicated stereo FX return channels
- Master strip for quick access to mix levels and processing
- Input channel linking for stereo sources
- Input processing – Preamp, HPF, Gate, PEQ, Compressor, Delay
- Automatic Mic Mixing
- Output processing – PEQ, Graphic EQ, Compressor, Delay
- 31 Band Real Time Analysis and Spectrogram
- 7" (800x480 pixel) colour touch screen for quick control
- Motorized faders for sends on faders, GEQ fader flip and mix recall
- Quick copy and reset of processing, mixes and scenes
- 100 Scene memories
- FX, processing and channel User Libraries
- Qu-Drive for stereo and 18-track recording/playback to USB hard drive

- USB streaming to/from an Apple® Mac or Windows PC computer
- MIDI DAW Control driver for Mac (converts to HUI or Mackie Control)
- USB transfer of Scenes, Libraries, Shows
- User assignable Custom Layer

### Technical Specifications:

- **Dimensions & Weights**  
**Desk mounted:** Width x Depth x Height 850 x 500 x 186 mm (33.5" x 19.7" x 7.4")
- **USB Audio Streaming:** USB B, Core Audio compliant
- **System:**
  - **Dynamic Range:** Measured balanced XLR in to XLR out, 0dB gain, 0dBu input 112 dB
- **Frequency response:** +0/-0.5dB 20Hz to 20kHz
- **dBFS Alignment:** +18dBu = 0dBFS (+22dBu at XLR output)
- **Meter Calibration:** 0dB meter = -18dBFS (+4dBu at XLR out)
- **Meter Peak indication:** -3dBFS (+19dBu at XLR out), multi-point sensing
- **Compressor:** Self-key Sidechain
- **Threshold / Ratio:** -46dBu to 18dBu / 1:1 to infinity
- **Attack/Release:** 300us – 300ms / 100ms - 2s

## Midas M32 Series

M32 Digital Mixing Console is a 40-input digital mixer featuring the "1-million lifecycle" Midas pro faders. It is 96 kHz ready and carries 192 kHz AD/DA converters. Multiple expansion cards such as Dante, MADI and ADAT are available for digital networking and its onboard 32x32 USB interface allows real-time tracking.

### Main Features include:

- Cirrus Logic converters and 40-bit floating point offer 112dB of dynamic range
- Master control section features a 7" TFT display that's easily viewable even in daylight
- Outfitted with 25 premium 100mm Midas Pro motorized faders rated to 1 million cycles
- Easily assign channels to 8 DCA groups and 6 mute groups
- Assign audio across 25 independent, time-aligned, and phase-coherent mix buses



- 100 Scenes/Snippets with 500 Cues provide powerful show automation possibilities
- AES50 and Ultranet let users expand their system with up to 96 channels with P16 monitoring
- Insert over 50 signal processors and effects across 8 stereo DSP engines
- 32-in/32-out, 48kHz USB 2.0 audio interface accommodates both studio and live recording
- Control your DAW via either Mackie Control or HUI protocols with full automation
- Optional Midas iOS apps provide Wi-Fi control via your iPhone or iPad

### Technical Specifications:

- **Input Processing Channels:** 32 Input Channels, 8 Aux Channels, 8 FX Return Channels
- **Output Processing Channels:** 16
- **16 aux buses, 6 matrices, main LRC:** 100
- **Internal Effects Engines (True Stereo / Mono):** 16
- **Internal Total Recall Scenes (incl. Preamplifiers and Faders):** 100
- **Signal Processing:** 40-Bit Floating Point
- **I/O Latency (Console Input to Output):** 0.8 ms
- **Network Latency (Stage Box In > Console > Stage Box Out):** 1.1 ms
- **THD+N (0 dB gain, 0 dBu output):** <0.01% (unweighted)
- **THD+N (+40 dB gain, 0 dBu to +20 dBu output):** <0.03% (unweighted)
- **Input Impedance (Unbalanced / Balanced):** 10 kΩ / 10 kΩ
- **Non-Clip Maximum Input Level:** +23 dBu
- **Phantom Power (Switchable per Input):** +48 V
- **Equivalent Input Noise @ +45 dB gain (150 Ω source):** -125 dB (22 Hz-22 kHz, unweighted)
- **CMRR @ Unity Gain (Typical):** >70 dB
- **CMRR @ 40 dB Gain (Typical):** >90 dB





## Soundcraft Si Impact

Si Impact brings the latest digital mix innovations together with the unrivalled sound quality of Soundcraft. Designed to be as simple as an analog mixer, but offer radical workflow enhancements such as the unique FaderGlow system, massive DSP power, and a pristine 32-in/32-out USB audio interface, Si Impact delivers digital live sound mixing and recording for those who refuse to compromise on audio quality.

### Main features include:

- Up to 80 channels to mix
- 32 Mic Inputs
- 8 XLR/1/4" Combi-jacks for line inputs and instruments
- 40 DSP input channels (32 mono inputs and 4 stereo channels/returns)
- 31 Output busses (All with full DSP processing and GEQ)
- 4-band Fully Parametric EQ on each channel and bus
- 8 VCAs + 8 Mute groups
- 26 motorised faders (24 input + LR/Mono)
- 4 fully customisable Fader Layers
- Built-in Stagebox Connectivity
- 5" touchscreen display
- Multi-Colour LCD Channel Displays on each input fader
- 4 studio-grade Lexicon Effects engines and dedicated FX busses
- BSS Graphic Equalisers on every bus
- 20 sub-group / aux busses
- 4 mono/stereo matrix busses
- 32x32 USB audio interface for multi-track recording and playback
- Increase I/O capabilities with option cards and stageboxes:
  - Use included MADi option card and Soundcraft Mini Stagebox 32i or 16i for more microphone preamps, inputs and channels to mix
  - Add 2nd MADi option card and two Soundcraft Mini Stagebox 32i or 16i for up to 96 microphone preamps, 136 total inputs and 80 channels to mix.
  - Add Dante option card for 64 channels of Dante to mix
  - Additional option cards available: AVIOM A-Net, CobraNet, AES/EBU, BLU Link, more
- Additional Soundcraft stageboxes available: Mini Stagebox 32R, Mini Stagebox 16R, Compact Stagebox, and Vi Stagebox

### Technical Specifications:

- **Height:** 160mm (6.3")
- **Width:** 750mm (29.5")
- **Depth:** 500mm (19.7")
- **Weight:** 20kg (44.1lb)

## Yamaha Rivage PM10

RIVAGE PM10 is a new generation consoles that continues to evolve. In terms of sound quality, operation, functionality, reliability, expandability, and more, the RIVAGE PM10 is a thoroughly refined flagship that defines the direction for future generations. It is a worthy heir to the PM name that brings true innovation to the developing live sound scene.

### Main Features include:

- The new hybrid microphone preamps at the input stage of the PM10 help create a solid foundation of sound for crisp clear sound.
- The great sound of the hybrid microphone preamplifier is its digital stage. The transformer circuitry and SILK processing incorporated in high-end analogue devices from Rupert Neve Designs, designed by the legendary Rupert Neve himself, have been precisely modelled using original Yamaha VCM technology. These preamplifiers are available for use on all RIVAGE PM10 input channels.
- The PM10 has been designed with operability in mind, as with all Yamaha consoles. With the PM10 Yamaha have worked to take their already well designed interface and extend its operability with new time saving and efficient features.
- As with most Yamaha consoles, the PM10 features Yamaha's industry standard select channel concept, providing direct access to parameters of any channel via its select key.
- The PM10 also features a merged touch screen and fader strip which allows for intuitive changes and editing on the fly as well as facilitating 2-man operation.
- This console is fit for use in a number of solutions, whether it is for live sound in a venue or in a house of worship.



- The new features make this a high end option that offers extremely clear sound and a high level of flexibility and control. The PM10 is a fitting flagship model for Yamaha and a worthy addition to the PM range.

### Technical Specifications:

**Mixing Capacity:** 44.1/48/88.2/96 kHz; 144 input channels, 72 Mix buses, 36 Matrix buses; Stereo buses A and B (or Mono bus), Cue A/B, Monitor A/B

**Input Channel:** A/B, Gain Compensation, Digital Gain, HPF, LPF, 4-band PEQ, 2 Dynamics, Delay, 2 insert points (x4 daisy-chain), Direct Out

**Output Channel:** HPF, LPF, 8-band PEQ, Dynamics, Delay (on channel and port), 2 insert points (x4 daisy-chain)

**Scene Memory:** Number of scenes: 1000; Functions: Recall Safe, Focus Recall, Fade Time, Preview, Overlay Filter, Isolate

**DCA/Mute Group:** 24 DCAs, 12 Mute Groups

**Plug-ins:** 384 plug-in slots (The maximum number of plug-ins used at a time varies depending on the plug-in types); 45 types of plug-ins

**GEQ/PEQ:** 48 racks (96 for Flex15GEQ and 8-band PEQ); 31-band GEQ, Flex15GEQ, 8-band PEQ

**Recording:** 2-track USB recording (MP3 and WAV); Multitrack recording and Virtual Soundcheck via Dante (option)

**I/O Network (TWINLANE)**

**400 channels @ 44.1/48/88.2/96 kHz, 32-bit**

**Network latency:** 11 samples at 44.1/48 kHz, 12 samples at 88.2/96 kHz

**Topology:** ring for network redundancy

**Recommended cable:** Neutrik opticalCON DUO multimode fiber (HY256-TL) or Neutrik opticalCON DUO singlemode fiber (HY256-TL-SMF).

- The Product Focus section is purely for information purpose and is only intended as a guide.





*Iris Buildtech, official distributors for Harmonic Design (HD), Germany chose the PALM Expo 2019 show floor and Indoor Compact Line Array Demo feature to introduce a range of innovative loudspeaker systems from HD to the Indian Market. PT met **TIM MAIER**, Export Manager for Harmonic Design Audiotechnik GMH. to understand a little more about what the company had to offer.*

# AHEAD OF THE CURVE

## In Conversation with Tim Maier of Harmonic Design

Founded in 1980 in Rutesheim, the company began by introducing Hardy Amps professional bass and guitar amplifiers. After the company burnt down completely in a fire, the company headquarters was relocated and the company was rebranded as **Harmonic Design GmbH**.

"The company was founded in 1980 and initially we were focused only on R&D and distribution of measurement and analysis systems like MLSSA Europe. However, we did introduce our first PA speakers and speaker system with integrated processors to the National German market way before other big German manufacturers. The region where we are located is more like the "sound region" because all major manufacturers of sound systems are within a range of 15kms to 16kms. In the early days, we did a lot of OEM too, and Harmonic Design was distributed only in Germany. It was only national sales and there was no interest in going global. But with the advent of globalization, since the last decade, Harmonic too decided to go international," says Tim Maier, Export Manager for Harmonic Design.

Harmonic Design products are designed, developed and manufactured entirely by hand in South Germany Steinheim an der Murr, with only high quality and durable components being sourced from regional suppliers in Southern Germany ensuring high quality and reliability of the products. The MLSSA

measuring system took computer-aided speaker development to a new level in the early '90s. This was followed in 1994 by the first digital signal processor with pioneering filter options. In recent years, the company has developed technologies such as the GroupDelayCorrection or the PowerSound algorithm.

Harmonic Design prides itself for investment into research, development and production of innovative loudspeaker systems and acoustic services. "We have now stopped OEM and we are using our knowledge and technology for Harmonic Design products because they have the capability to compete with other major manufacturers, says Tim.

"Our products have the latest technology on the inside, so we can reduce the size of each speaker dramatically. For instance, in the line array shootout, we have one loudspeaker speaker playing against six to eight boxes. A single box can be used as a standalone box and is capable of powering an audience upto 2000 people. It can be extended like modular systems, like in the line array demo and it can be hanged as vertical array to make a big line array to cover up to several thousand people easily. This is one of our innovative products launched in 2016. It is now being distributed in every market and we decided to bring it for the first time to India," he adds.

Iris Buildtech, official distributors for Harmonic Design in India

showcased the HLS Tour SYS - a Complete Line Array System with just Two Hybrid Line Source Dual 12" (HLS24P) Tops and Four Dual 18" (Infra 218) Subwoofers along with a Powersoft X8 Amplifier at the PALM Line Array demo.

### Beamforming Technology

Harmonic Design beamforming loudspeakers offer great potential for improving sound distribution in complex architectures and highly reverberant rooms. The goal is to focus the sound only on the listener's surfaces, while shading areas that create unwanted reflections and disturbing room resonances.

Talking about Harmonic's Beamforming Technology, Tim says, "The beam forming is very precise. We can make the sound very narrow like a laser or open it up. This is very good for all applications, including houses of worship and home audio because typically they have bad room acoustics. The Harmonic Beamforming technology cancels out all the unwanted reflections and you can focus the sound only on the listeners."

### Application

Harmonic Design systems consist of the loudspeaker box, the digital system controller and the amplifier. The individual components are networked together to ensure easy operation, optimum sound quality and enormous reliability. The individual loudspeaker boxes

are interchangeable, so as to be able to achieve the optimum result depending on the application and requirement.

"The same speaker can be used in the conference room or it can be integrated into the wall, or at the same time, it can be used as a playing speaker for a small band. So it can be used in every application. All of our speakers have exceptional power performance and most of them are passive because with the passive we can enter into a new level of performance. Active integrated solutions are not that powerful because they have limitations," says Tim.

### India focus

So how does a product driven company, which prides itself on innovation and quality plan on penetrating a new market like India? "Mostly, we are looking at our dealers and distributors to do that for us," he says.

Harmonic Design products on display at the Iris Buildtech booth and Line Array Demo at PALM expo 2019 included Hd HLS24 - Revolutionary HybridLineSource Loudspeaker; Hd Infra218 - high-performance subwoofer; hd HLS24-TourSys2 - Allround PA-System; hd MP-Series - full range cabinets; hd C-Series pfamily of high-end Commercial Sticks specially designed for use with standard A/V-receivers and amplifiers and the hd Slim265 subwoofer.

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# **PALM SOUND & LIGHT AWARDS**

## **Ahuja Radios - MAJOR AUDIO BRAND DISTRIBUTION NETWORK**

India's pioneers and leading manufacturers & exporters of Public Address Equipment - AHUJA RADIOS established in 1940, have cemented themselves as the country's most trusted brand in sound reinforcement, offering a wide range of products to fulfill every

conceivable PA application requirement. The diverse portfolio of products comprising of Amplifiers, Mixers, Microphones, Speakers/ Powered Speakers, Conference System, Counter Communication Systems etc. are designed to deliver optimum reproduction of sound.

*The PALM Sound & Light awards honoured Ahuja Radios – India's iconic brand since almost 80 years. Recognized by the country's population as the PA brand delivering affordable technology to the masses and the world, Ahuja Radios, a truly Made in India brand is omnipresent at public places, auditoriums, conference halls, Race Tracks, Metro Stations, Railway Stations, Educational Institutions, Malls, Retail Outlets, Government Establishments like the Lok Sabha (and the list is endless). Ahuja amplifiers & speakers were also installed for public address at Maha Kumbh Mela in 2013 and again in 2019. The strong growth of the company can be attributed to a great extent to its network of 500+ highly dedicated dealers spread across the country, making Ahuja Radios, one of India's foremost audio brand distribution networks.*



Mr. Sandeep Ahuja, Sr. Vice President of Ahuja Radios and Mr. Vikram Ahuja, Vice President receiving the PALM Sound & Light trophy along with team Ahuja Radios

**“ PALM is known for recognizing and acknowledging talent, and as such we, at Ahuja Radios, are truly honored and humbled to receive this much coveted award from PALM. Ahuja is committed to providing the best possible products and services to its esteemed and valued patrons and customers, and we are thankful to our dealers for their immense contribution in our success. We also wish PALM the very best in all its future endeavors. ”**

**Sonu Khurana, Ahuja Radios**

Seven years before India attained independence from the British Empire, Mr. A. N. Ahuja envisioned an independent idea of a world class Indian Public Address Manufacturer. The journey, which started in 1940, has withstood the test of time to achieve many

milestones on the way.

Starting with a 36,000 square feet factory in 1958, Ahuja has gone on down the years to inaugurate a second factory measuring 52,000 square feet in 1970, another new factory under Trusound Pvt. Ltd. (Ahuja Group Company) in 1984 encompassing an area of 30,000 sq. feet and now its latest factory spread across 2,50,000 square feet in Noida, UP

Ahuja Radios is the first Indian Company in Audio Electronics to get an approval of UL & CSA, for exports to USA & Canada and in 1984, Ahuja was granted the Export House status by Directorate General of Foreign Trade (DGFT), Ministry of Commerce &

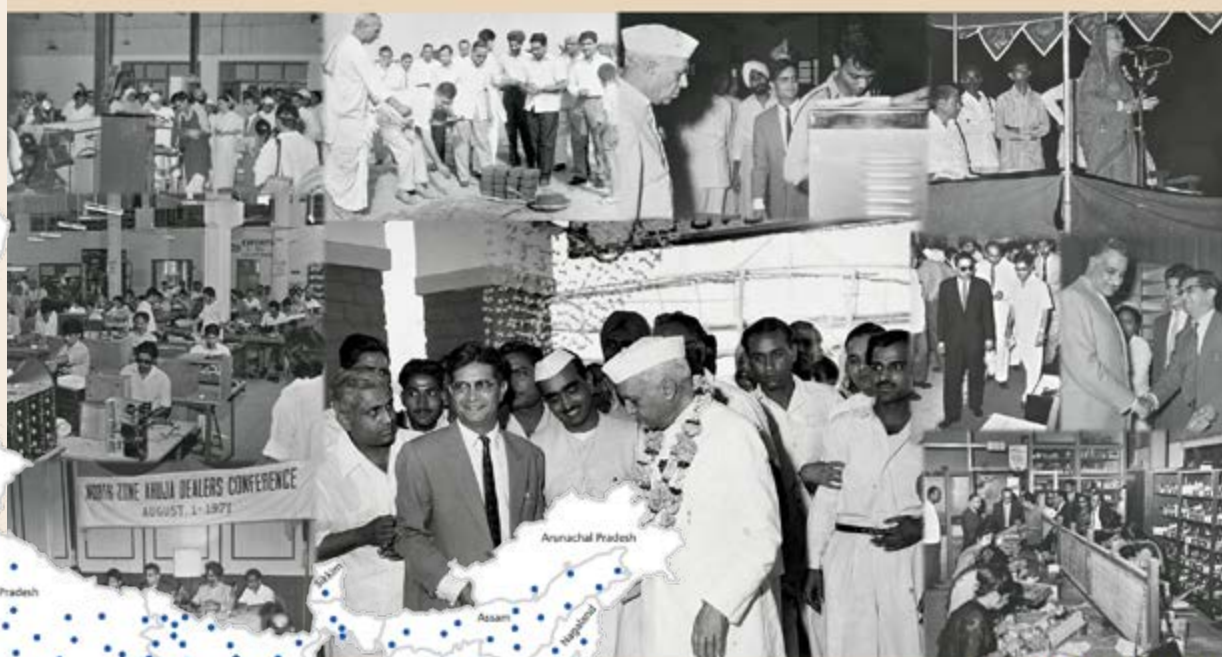
Industry, Govt. of India.

Besides a host of accolades over the years, in 2001-2002, the company's efforts were recognized when Mr. **Sandeep Ahuja**, Sr. Vice President of Ahuja Radios accepted an award for Ahuja Radios, from ESC – Electronics & Software Export Promotion Council for “Leading Exports in New Markets” - the highest exporter award in India in the field of Consumer Electronics.

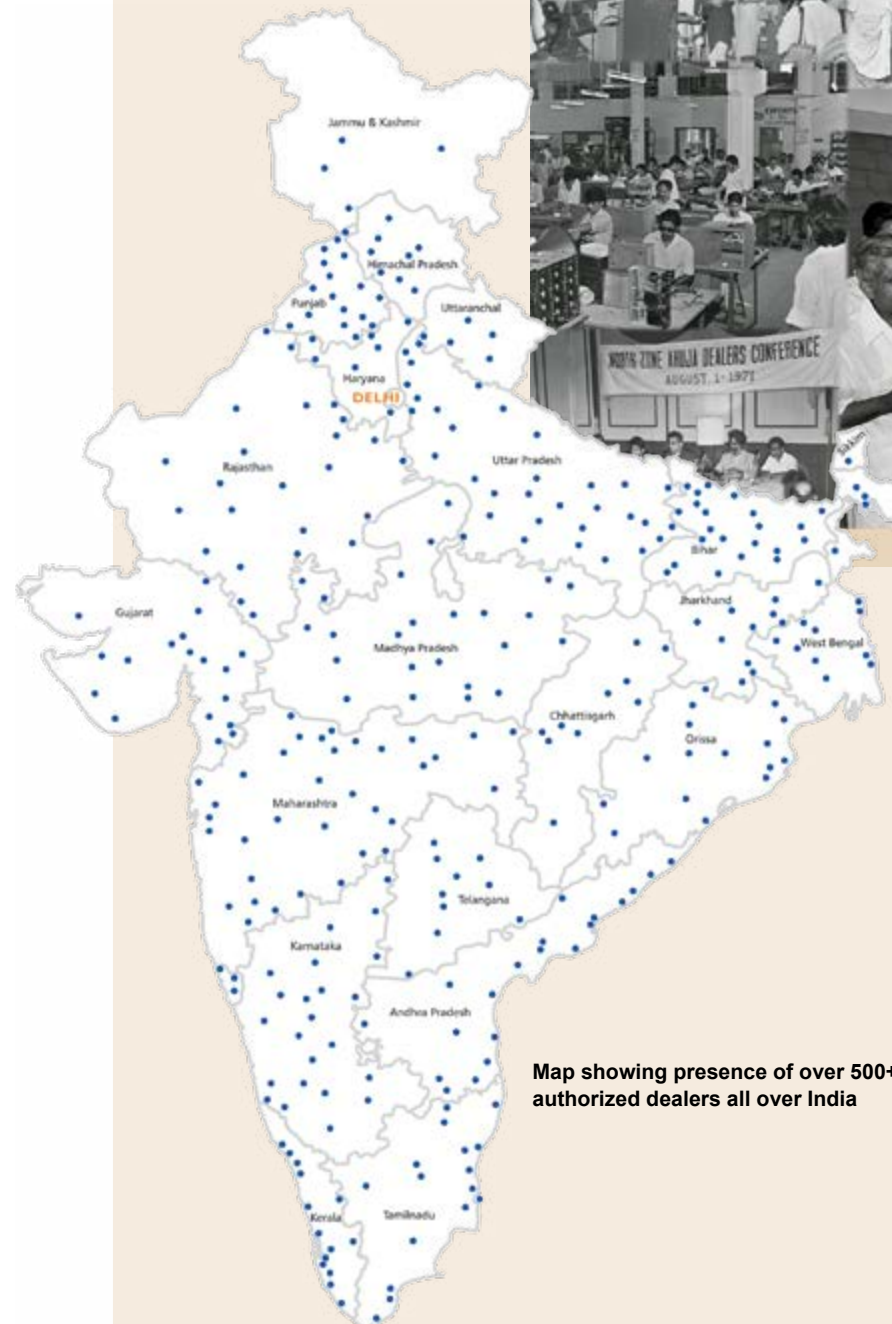
Today, Ahuja has a network of 500+ highly dedicated dealers spread across the length and breadth of the country and presence in over 50 countries spreading over five continents.

## A proud HERITAGE... A glorious LEGACY

Seen here India's first Prime Minister Pt. J.L. Nehru inaugurating Ahuja's first factory in 1958: A host of foreign dignitaries visiting AHUJA factories



**A Sound FUTURE!**



Map showing presence of over 500+ authorized dealers all over India

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## THE ART, SCIENCE & PSYCHOLOGY OF MONITOR MIXING

While this goes to post the Monitor Mixing Summit 2019 will be over, I hope this Summit will change our attitude, workflow and planning to give the artistes a fantastic sounding stage mix, be it in their in-ears or in their wedges or both. Whilst some have been doing a great job mixing monitors for top tier acts in India, for many others **Monitor Mixing is a 'Black Art'** and for most there is a fear/ambiguity of sending audio signals down artistes ears for the fear of being reprimanded, yelled at or subjugated to an artiste intolerant to any problems with monitoring whether it is their fault or not.

How do you please somebody or an entire bands acoustic palette is where the blend of the art, science & phycology of good monitoring is and it really starts with the most fundamental thing of good gear to begin with following into the prep of the racks and panels to have a easy setup into a good workflow around your console and finally into the most crucial aspect of monitor mixing, your talent as an engineer and your relationship with the artiste

I always speak about relationship with the artiste first as they all vary and the variable is very high, sometimes even bizarre, they all like what they like and have their own mental energies on stage, for some if it's a good gig its good sound, for others if it's a great sounding show

they 'perform' if its bad sounding they 'play' and for some they don't give quite a damn how its in the house as long as they are sounding comfortable in their ears.

For an Monitor Engineer he has many roles to play, first he needs to instill confidence into the artistes that he will do everything to make them sonically comfortable, he then has to prove every night that he is still the right man for the job no matter what the circumstance of acoustics, gear, ambient noise or audience may offer. This starts a long journey in a process of building trust & confidence in you and that is the most important aspect the artiste looks for in an individual mixing their monitors.

In India people are crestfallen and lose confidence when they lose their seat in Monitorland, most of the time they are not told the truth as to why they aren't on the job anymore and that they may never ever find out, they are sometimes even reinstated back after trying others to realize they were the right ones for the job after all. Well don't be upset even in the US & Europe the same rules apply from changing engineers after the first gig, to mid way during the tour to the next tour to even sticking with their Monitor Engineers for two decades. The rules are "there are no rules" even wanton decisions are taken, from having a bad day and letting go the best man for the job.

I can assure you that you should never lose heart and learn from your mistakes evaluate your strengths and weaknesses and if you have hit dead end seek help from a veteran.

Technically in my opinion great monitor engineers are cats that understand gain structure extremely well and buss structure & matrixing architecture, this is the clinical part of the mix. The second skills are authority over the signal chain, the equalisation, the compression and gating and the tertiary skills are the creative aspect of reverbs & delays and ambient sounds hitting their ears.

I am also given to understand many guys still mix running Auxiliary's pre-fader and my sincere request to you is stop doing what your doing because that is a grave injustice to the artiste, if it works for you that's ok but it isn't good for artiste monitoring. If you are not using snapshots, can you really do such an exceptional job? Do you know the songs well and your so quick on your cues that you never miss a solo or a fader revision The truth is you will and even the guys who do snapshots they constantly improvising their running snapshot whilst the gig is on as well as updating the snapshot many times during a song, making it more & more 'show ready'

The physiological aspect of monitor mixing is a game changer for the pros and separates the veterans from the rookies, they know exactly

what the artist is missing by merely looking at their faces and the artistes too expect them to understand them likewise. They get the sign language in a jiffy from everyone in the band and they focus on looking at them and less head down on the control surface. The approach their changes very well, they understand the difference between a coarse volume changes to a fine change to a hair-pin change. They are so good that even with confidence they reduce levels of other channels when artistes want to hear their own voices louder instead of increasing the vocal volume. Some monitor engineers are like the trusted family doctor that when the artiste even sees them he already feels his mix will be good.

So what am I trying to tell you is that even I can get lost in the numerous permutations & combinations of getting this right but in a nutshell for being in the business for the past two decades I can safely say

Talent, Hard Work a Great Personality & a little bit of Luck!! And off you go Mr. /MS Monitor Engineer

Warren D'souza - Founder,  
Managing Director, & Working  
Member of Sound.Com  
Instagram @warrendsouza  
#AudioEvangelist  
#SoundGuyForLife

## Touchwood Automations invigorates Pune's party scene... (Continued on from 47)

supported by generation old trusses that were resting on the beam (Height of 14 feet from ground). Now, Touchwood and Cinco faced a massive hurdle in the installation phase as their plan was to deploy the china imported lighting from the ceiling for the bar counter. This delayed their on-site work for more than 2 weeks.

### Execution:

They had to revamp the entire design without changing the outcome so Touchwood decided to move the speakers on to the wall.

Restructuring a wall mount that

could give them an inclined angle and also hold the weight of 50kgs of one speaker presented a challenge to Touchwood Automations.

Getting the frame designed and manufactured was comparatively easy, than the real challenges of installing the frame and placing the speaker in the same. The speakers had to be placed 12 feet high from the floor and with the help of scaffolding it wasn't easy. It took 4 engineers and installers to lift the speakers and carry it step by step in the frame.

### Video Installation:

Whilst the club was nearing

completion, the second challenge was to mount the enormous 220" Tab Tension screen in the outdoors at a height of 25 feet from the floor. The screen weighed more than 35kgs and had to be welded to withstand the wind and moisture.

Except for the Benq projector which by the time the project came to an end was discontinued, sourcing of all the other material was not a challenge as the importers of Audac were gracious to hold the material for them. Benq projector was sourced from their industry colleague from Raipur.

The 220" Tab-Tension Motorized

Screen, Audac's top of the line speaker and bass cabinets and Audac's Outdoor weatherproof speaker are the major highlights of the entire project.

The owners and partners **Varad Patil** and **Anshul Shetty** were extremely happy and satisfied with the entire setup. "Thanks for taking care of each requirement and completing the space with an amazing sound and great video. The visitors are truly enjoying an amazing experience. You've truly fulfilled one of the five senses by delivering a great audio and video solution" commented the partners at Cinco.

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# THE PIANO PROJECT

## Bose Professional hits the right notes with a subliminal sound experience at **The Piano Project, Indore**



Quickly rising up the ranks as one of India's best places to live in, the city of Indore has it all – a strong sense of community, impressive infrastructure, and indeed a bustling nightlife, which in recent times has received quite the shot-in-the-arm with the

launch of a bespoke entertainment and leisure dining destination called **The Piano Project**.

Located in the upbeat Vijay Nagar area of the city, The Piano Project is a unique roof-top venue that's a hybrid creature in itself. Part performance space, part living room,

part dining galore, and part saloon - The Piano Project features a plush floor expanse that houses dedicated indoor and outdoor sections complete with a stretch bar, relaxed seating, an obviously enchanting décor, and of course true to its name ... a live grand piano. The bar serves

up a slew of house-favourite drinks, which complements the exhaustive menu of delectable knick-knacks and full-course meals to sheer perfection. A live pianist performs much to the delight of the crowd, who usually chime in their support with joyous hums and sing-alongs as they listen, drink and socialize.

**Boney Kakwani** – creator of The Piano Project, delves into the essence of the venue as he comments "We aimed to create a space that emphasizes music – an intimate space for emerging musicians to perform. In a city

The Piano Project features an amalgam of top-quality high-performance products which include the likes of the critically acclaimed RoomMatchUtility (RMU) series, the dexterous FreeSpace series, and the global favourite Panaray series



**Vibhor Khanna** – Country Manager SAARC, Bose Professional

with relatively little mainstream exposure to live music, we envisioned The Piano Project as a venue that would play a key role in introducing new artists and fostering a new listenership, while of course, catering a certain amount of emphasis to the mass appeal as well. Our goal was, is and always will be to see our customers coming in for the music first, and then the restaurant." Live music in-tow, the venue also offers patrons the opportunity to enjoy upbeat electronic music, particularly when the sun sets, as a part of the venue transforms into a nightlife haven of sorts.

An apparent emphasis on music entails its evident dependence on pristine quality audio reproduction – and this fact was more than common knowledge to Mr. Kakwani, who insisted that The Piano Project be outfitted with an all-encompassing and comprehensive audio architecture from Bose Professional to ensure that his patrons enjoy a truly subliminal sound experience.

Says Mr. Kakwani, "When you think of great quality sound, you think of Bose. So, when Vinayak and his team at Audiocratz pitched us a comprehensive solution from Bose, we were hooked. We needed an audio solution that would provide us with uncompromised quality yet adhere to the volume-level requirements of each individual section of the venue; and the eventual system that has been designed and installed at the venue meets our expectations to perfection. The outdoor terrace sounds just as amazing as the indoor dining section, despite the fact that the music focus at each of these spaces is different. I guess that's pretty much a testimony to Bose' expertise in providing unmatched sound performance!"

Designed and integrated by **Audiocratz Sound & Light Solutions** with key support from Bose Professional India, the audio architecture at The Piano Project features an amalgam of top-quality high-performance products which include the likes of the critically acclaimed RoomMatchUtility (RMU) series, the dexterous FreeSpace series, and the global favourite Panaray series. The focus here, according to **Vinayak Luthra** – director of Audiocratz Sound & Light Solutions – was to emphasize uniform coverage of Bose

Professional's signature crystal clear sound experience across the entire venue while maintaining enough headroom to enable the system to go louder when required, without having to compromise on quality.

Vinayak comments, "With the venue promoting a vast range of music – both live and playback – we realized that the system at The Piano Project needed to be extremely versatile yet powerful and high on quality." Working on this mandate, the team devised a solution which comprised multiple numbers of the RMU208 loudspeakers along with the MB210 subwoofers being deployed as the main system at the bar area, which by far is the busiest section at the venue and usually demands higher energy levels. The VIP section features multiple numbers of RMU105 loudspeakers and MB210 subwoofers strategically placed across the section to maximize impact and listening pleasure. The area adjacent to the in-house liquor store has been integrated with multiple numbers of FreeSpace DS40SE loudspeakers, while multiple numbers of the FreeSpace DS16F in-ceiling speakers have been deployed at common sections like the reception area and the lift lobby. The outdoor terrace section, which hosts a completely unique music vibe that's mostly independent of the indoor section, features the use of Bose Professional's acclaimed Panaray 802-IV loudspeakers. The entire loudspeaker system is powered through an astute amplification solution comprising the use of multiple numbers of PM8500 configurable digital amplifiers from Bose Professional's revered PowerMatch series, with system control and processing achieved through the efficient ControlSpace ESP880 engineered sound processor. The team have also installed the CC-16 zone controller device at two dedicated locations at the venue which affords instant control over the audio characteristics at each individual section.

Diving into details of the system, Vinayak shares, "We worked closely with the venue's team of architects and with the team at Bose Professional in understanding the ideal locations to place the loudspeakers such that the system delivers optimum performance and also maintains the aesthetic appeal of the place. The indoor section posed a challenge with the height of the ceiling and the overall dimension of the space, which was furthered



The VIP section features multiple numbers of RMU105 loudspeakers and MB210 subwoofers strategically placed

by the individual sections that were housed inside it; while the outdoor section posed a similar challenge but with a greater emphasis on the uniform dispersion of sound. These challenges were dealt with efficiently and effectively by choosing products from the RoomMatchUtility series, FreeSpace series and Panaray series, which helped us ensure that we maintain Bose' world-renowned sound signature across the entire venue, while adhering to the volume requirements of each individual section. Plus, the PowerMatch series amplifiers ensures that the system is able to generate enough power and impact whenever the need arises, while the ControlSpace engineered sound processor maintains optimum performance of the loudspeaker system coupled with unmatched safety benefits. Needless to say, the entire management at The Piano Project is extremely pleased with the performance of the system, and for us, that's the ultimate sign of a job well-done!"

**Vibhor Khanna** – Country Manager SAARC, Bose Professional – expresses his elation at the brand's association with The Piano Project, as he exclaims, "The atmosphere at The Piano Project is always electric and there's an undeniable chemistry between the enchanting music experience and subliminal soundscape that engulfs the venue. It is an absolute pleasure for Bose Professional to be recognized as the preferred brand partner to reinforce an ingenious venue like The Piano Project which is at the forefront of shaping the music and nightlife scene in Indore. Our partners at Audiocratz Sound & Light Solutions have done a fantastic job indeed, and we couldn't be happier to hear of the raving reviews that venue has garnered for the superlative music experience it has consistently offered. We congratulate the entire management on being showered with the kind main-stream success and appreciation that they most definitely deserve!"



9<sup>th</sup> edition

# PALM SOUND & LIGHT AWARDS

## Mukesh Panjwani, MX MDR Technologies Ltd. - LIFETIME CONTRIBUTION TO THE PRO AUDIO INDUSTRY

*The PALM Sound & Light awards honoured Mukesh Panjwani, CEO & Managing Director of MXMDR technologies for spearheading the mass distribution of a massive audio, video and electronic product catalog, which is today of critical use, but difficult to get. PALM recognizes the fact that consumption has exploded on the mass level and Mukesh Panjwani has done a tremendous job of satisfying this demand by reaching even the smallest product, which is a 100% Made in Indian product to every corner of India. Today MXMDR has also expanded to supply multi-utility affordable install sound of professional quality. In this feature, PT charts Mukesh Panjwani's journey and growth in this industry.*



From l-r: Anil Chopra, Mukesh Panjwani, Manish Gandhi and Ramesh Chetwani

With an experience of more than four decades in the electronic and pro audio industry, **Mukesh Panjwani** has been instrumental in the growth of MXMDR Technologies, a true "Make in India" company that today supplies a huge range of electronic and pro audio products to the market.

Starting with just one product – an EP 5.5mm connector and very little money in his pocket, his company today manufactures, audio video connectors, cables, cords, fiber optics CCTV camera accessories, speaker systems, power amplifiers, battery chargers, DJ Headphones and DJ Mixers to name just a few.

Though Mukesh Panjwani

was from a non-business background, he always nurtured a strong ambition to start a business of his own. His father who worked in the service industry had already made it clear that he had just enough money to help young Mukesh with his education. That is when Mukesh Panjwani started working part-time in different factories while also completing his college education. Eventually, through sheer hard work and determination he collected enough money to setup a very small production unit with no other staff besides himself to make the connector. Working for more than 16 hours a days, he

audio and video cords, accessories like surge protectors, voltage convertors etc. Extensive travel to other countries with his son Dipesh Panjawani, helped him understand the new products being launched in the global market and he started manufacturing similar products here in India. MXMDR also started exporting a lot to Singapore, South Africa, Australia and China.

A self-made man, to this day Mukesh Panjwani works on a 12-hour schedule and answers every single

**“I have received many awards from the electronics industry and electronics associations but this is my first award from the pro audio industry of which I have been a part since the last 40 years. I am extremely pleased, honoured and overwhelmed to receive this recognition in front of my industry peers and colleagues.”**

**Mukesh Panjwani, CEO & Managing Director,  
MX MDR technologies**

slowly expanded his business, acquiring more production units by the late 70s, in Santacruz, Goregaon and Andheri in Mumbai and hiring more people in these units. He acquired properties in Lamington road for his dealers so that they had easy access to electronic equipment being manufactured by MXMDR. He also started sponsoring many events to help the industry.

By 2006, Mukesh Panjwani had realized that the volume of work was increasing and it would be difficult to work out of different units. That is when he put up a huge factory in Vasai and shifted base to Vasai so that he could monitor all the production under one roof.

The product portfolio too started increasing from audio connectors to video connectors,

email, message and phone call, even if it is late at night or the wee hours of the morning. Today he has around 210 employees working under him. His main philosophy to provide the best possible quality in the best possible price also helped him grow his distributor network. MXMDR has around 68 distributors today who supply to almost 1400 – 1500 dealers across the country. His distributors are like family to him and he believes in giving them proper space and authority to sell.

MXMDR today is also channel partner for brands, which include **Peavey, SICA, Superlux, Extron, Dragon** and **Hill Audio**.



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## LEWITT RELEASES NEW LCT SERIES MICROPHONE MODELS

Lewitt has announced the arrival of the **LCT 040 MATCH** and **LCT 140 AIR** in stores worldwide. Encompassing a broad range of small and large-diaphragm condenser and tube microphones, the Lewitt LCT series is designed for home studio owners wanting to record acoustic instruments.

The LCT 040 MATCH is available as a single pencil mic as well as a stereo pair package, while the LCT 140 AIR brings new levels of adaptability to instrument recordings.

Among the first end-users to test the new microphones was Martin Zöschner, better known as Zed Marty from the same-titled YouTube production channel. Having trailed

the LCT 040 MATCH in a stereo set-up and the LCT 140 AIR on its own with an acoustic guitar, he described himself as “blown away by the full and richly detailed sound,” adding that the “price to quality ratio is unbeatable.”

LCT 040 MATCH boasts a stripped-back, ergonomic design. For maximum positioning flexibility even in the most restricted spaces, it features a durable and lightweight CNC’ed aluminum housing. Inside, the custom-designed capsule is optimized with instant transient response for the natural qualities of acoustic instruments. The LCT 040 MATCH stereo pair is available for \$189, benefiting from Lewitt’s matching process which analyses the microphones and couples those exhibiting identical behavior.

The new LCT 140 AIR offers off-axis sound suppression, pre-attenuation and low-cut filter, the SOUND toggle allows users to switch between AIR and FLAT. While the former delivers an open character, the latter provides a linear frequency response.

“We are delighted that the LCT 040 MATCH and LCT 140 AIR have been greeted with so much interest and excitement,” says **Roman Perschon**, founder and CEO of Lewitt. “We firmly believed that the time was right to bring our design ethos and technology to a much broader audience. I’m very happy to see that our customers agree! More people than ever before are now experiencing Lewitt, and I can’t wait to hear the results.”



## IZOTOPE TRANSFORMING MIXING: INTRODUCES NEUTRON 3

iZotope, Inc., the experts in intelligent audio technology, today launched **Neutron 3**, designed to bring mix workflows into the 21st century. Thanks to advances in machine learning, Neutron 3 Advanced is the first-ever plug-in that listens to the entire session, communicating with every track in

says iZotope Product Manager **Dan Gonzalez**. “Our customers are always finding innovative ways to use our Assistants to benefit their workflow and Mix Assistant is no different. With machine learning, we’re helping everyone get to a great starting point for their mix, so they can stay focused on their

Sculptor works like a per-band army of compressors and EQs to shape any track. It also communicates with Track Assistant to understand each instrument and gives real-time feedback to help shape tracks to a target EQ curve, or experiment with new sounds.

In addition, Neutron 3 includes many new improvements and enhancements based on feedback from the community, such as the redesigned Masking Meter that automatically flags masking issues and allows them to be fixed from a convenient one-window display.

Neutron 3 has also had a major overhaul in performance for faster processing and load times and smooth metering. Sessions with multiple Neutrons open much quicker, and refresh rates for visualizations have doubled.

### Neutron 3 Key Features

- **NEW Mix Assistant:** choose a focal point for a mix and let Neutron 3 automatically set levels before you ever have to touch a fader.
- **NEW Sculptor module:** Use iZotope spectral shaping to make instrument tracks sound more like themselves...or something else entirely.
- **Improved Masking Meter** prevents tracks from stepping on each other and muddying the mix.

- **Visual Mixer & iZotope Relay:** Launch Mix Assistant directly from Visual Mixer and move tracks in a virtual space, tapping into iZotope-enabled inter-plugin communication.
- **Improved interface:** Beautiful, smooth visualizations and a resizable interface that invite you to step in and take control.
- **Work faster with huge performance gains** that make system slowdowns and standstills a thing of the past.
- **Improved Track Assistant** listens to your audio and creates a custom preset for you based on what it hears.
- **8 plug-ins in one convenient mothership.** Build your signal chain directly within one highly connected, intelligent interface with: Sculptor, EQ with Soft Saturation mode, Transient Shaper, 2 Compressors, Gate, Exciter, and Limiter.
- **Component plug-ins:** Complete freedom and control over Neutron’s 8 modules as a single plug-in or as 8 individual plug-in workhorses.
- **Tonal Balance Control:** Updated to support Neutron 3 to further help you shape a balanced mix based on tens-of-thousands of

(Continued on page 62)



iZotope Neutron 3

the mix. Create a balanced starting point for an initial level mix built around a focus chosen by the mixer with **Mix Assistant**, saving time and energy for creative mix decisions.

“Neutron 3 moves us closer to a world where technology enables what all our customers love doing; being creative and making music.”

creative input. I’m personally very excited to see where this takes music making.”

Workflow is just one way Neutron 3 is bringing mixing into the 21st century. **Sculptor** is a new module (available in Neutron 3 Standard, and Advanced) for sweetening, fixing, and creative applications. Using never-before-seen signal processing,

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## KRK SYSTEMS LAUNCHES AUDIO TOOLS APP

KRK Systems, part of the Gibson family of brands has introduced its **KRK Audio Tools App** for iOS and Android. This free suite of professional studio tools includes five useful and professional analysis-based

acoustic environment.

In addition to the EQ Recommendation tool, the app also includes a Spectrum Real Time Analyzer (RTA), Level Meter, Delay and Polarity Analyzers, as well as a

giving the user sound analysis options of sine, continuous sine sweep, white noise and pink noise—all of which can help the analysis process in different conditions.

"We wanted to build something game-changing for the new ROKIT G4 line that enables our users to achieve better final mixes overall," explains **Rich Renken**, Product Manager—Pro Audio Division, Gibson Brands. "In terms of critical listening, the G4 monitors are completely different, and a major upgrade from the previous G3 line. Our intentions with the EQ Recommendation tool are to suggest a flatter condition and help get the user to a better starting point. Ultimately, it still comes down to preference and using your musical ear, but it's certainly great to have this feature available along with the others in the app."

Five of the app tools work with any monitor setup. This includes the Level Meter, which assists with monitor level calibration to ensure all monitors are at the same dB level, as well as the Delay Analysis feature that helps calculate the time from each monitor to the user's ears. Additionally, the app's Polarity function is used to verify the correct wiring of monitors, minimizing bass loss and incorrect stereo imaging reproduction—the results of monitors being out of phase, while the

Spectrum RTA and Sound Generator are great for finding nuances in any environment.

Also included is an unprecedented Monitor Alignment feature, which is used to determine the best placement of multiple monitors within proximity. This is accomplished by placing a smart device on each monitor separately and then rotating to the correct angle degree. A sixth tool, exclusive to ROKIT G4 owners, is the EQ Recommendation tool that helps acclimate monitors to an environment by analyzing the app-generated pink noise and subsequently suggesting the best EQ preset, which is set manually on the back of the G4 monitors.

"We are extremely excited to offer this app to the recording music community. Our team has put a great deal of energy and research into the development of the app which in combination with the G4 monitors, offers something never before released in the market—at any price point," says **Jimmy Landry**, Global Director of Marketing—Pro Audio Division, Gibson Brands. "The feedback we've received on the new, and more professional sound of the ROKIT G4s has been overwhelmingly positive. With the release of the KRK Audio Tools app, we are excited to hear what people create on the G4s moving forward."



**Mission Control for ROKIT G4**

components that work with any monitor setup, and one powerful tool that helps acclimate the new KRK ROKIT G4 monitors to their individual

Monitor Align tool that helps users set their monitor positioning more accurately to their listening area. Within the app is a sound generator

## FOCUSRITE LAUNCH THIRD-GENERATION SCARLETT USB-C AUDIO INTERFACES

Focusrite has launched the third-generation series of **Scarlett USB-C** audio interfaces, featuring upgraded mic preamps with extended gain and dynamic range, and the 'Air' ISA transformer-based preamp emulation from their more expensive Clarett and Red

series. There are six models in total, which features one mic input with phantom power and one switchable line/instrument input with line-level direct monitoring outs for zero-latency monitoring, right up to the top-of-the-range 18i20, with built-in talkback and four direct

monitor outs for speaker switching. All six models ship with cut-down versions of Pro Tools and Ableton Live, plus bundled plug-ins from XLN Audio, Softube, and Focusrite themselves (the Red plug-in bundle).

## IZOTOPE TRANSFORMING...

(Continued on page 60)

professional mixes.

- **7.1 Surround sound support** and zero-latency mode in all 8 modules for professional, lightweight processing for audio post or surround music mixes.

**Visual Mixer** and **iZotope Relay** will be Included free with all Neutron 3 Advanced demo downloads. In addition, **Music Production Suite 2.1** will now include Neutron 3 Advanced, and **iZotope Elements Suite** will be updated to include Neutron Elements (v3).

### Three different options for Neutron 3

Neutron 3 will be available in three different flavors - Neutron Elements, Neutron 3 Standard, and Neutron 3 Advanced - to fit the complex needs of the mixing world.



## ICON PRO AUDIO RELEASES AWAITED PLATFORM NANO

iCon Pro Audio has announced the availability of **Platform Nano**, an addition to its acclaimed modular Platform series of MIDI/audio control surfaces.

At a transportable weight of 1.3kg/2.8lb, the compact — 19.5 cm/7.8" (W) x 21.5 cm/8.5" (D) x 5.5

cm/2.1" (H) — Platform Nano brings control to popular DAWs with a single motorised fader alongside a selection of hands-on controls laid out across a top panel, including four rotary dual-function encoder knobs, while an 11-segment LED (Light Emitting Diode) surrounds the main knob control to indicate its rotating position; a Jog shuttle wheel, for fast search, scrub, and control; eight colour-coded function buttons coordinating with five different colour layers, for switching a variety of function controls;



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for use in combination with the Jog wheel; two illuminated track buttons, for easy selection of individual channels; and two illuminated bank buttons, for shifting groups of eight channels at a time.

Platform Nano sports a desktop design that connects via a USB 3 Type B connector which functions as a MIDI port to the connected computer and compatible software, while also providing power to the Platform Nano itself.

## ISOACOUSTICS INTRODUCES NEW APPROACH TO SPEAKER ISOLATION

IsoAcoustics has introduced the **ISO-PUCK mini**, another new approach to speaker isolation in the shape of a set of speaker stands.

Designed for smaller speakers and studio monitors, ISO-PUCK mini is said to eliminate vibrations to improve the clarity and focus of speakers and monitors both in the studio and at home. Sitting between the speaker or monitor and the supporting surface, the ISO-PUCK mini features an upper

flange suction cup that adheres to the underside of the speaker or monitor cabinet and a lower isolator that anchors to the supporting surface.

The lightweight, low-profile design makes the ISO-PUCK mini portable for the travelling producer or sound engineer. Each puck measures only 1.7-inches (44mm) across and 0.9-inches (24mm) in height.

# THANK YOU

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## WOLFGANG FRAISSINET LEAVES GEORG NEUMANN GMBH; MANAGEMENT TO REPORT TO PETER CLAUSSEN

Wolfgang Fraissinet, President Marketing and Finance, will leave the studio specialist Georg Neumann GmbH to pursue new career opportunities in the audio and music industry. "We thank Wolfgang for his huge contribution to the success of Georg Neumann GmbH for almost three decades," said **Peter Claussen**, COO of Sennheiser.

Until the position has been filled, the Neumann management team will report directly to Claussen, who is also President Research and Development of Georg Neumann GmbH. "We have a fantastic team at Neumann – together, we will ensure a smooth transition for our customers," continued Claussen.

With a solid background in premium brand marketing and an education in classical piano at Berlin Conservatory, business graduate Wolfgang Fraissinet started his career with Georg Neumann GmbH in 1990, shortly before the company was acquired



**Wolfgang Fraissinet, Georg Neumann GmbH**

by Sennheiser in 1991. During this transitional period, Wolfgang was part of the team that helped to successfully integrate the Neumann business into that of the parent company, with a clear focus on the

microphone portfolio.

In May 1992, he was made head of marketing and sales, a position in which he professionalized the company's international marketing and PR activities, thus raising awareness of the Neumann brand and firmly anchoring it in the premium recording segment.

In 2000, Wolfgang became President, Marketing and Sales of Georg Neumann GmbH. When Neumann took over the Klein+Hummel monitoring loudspeaker business in 2010, he was instrumental in successfully establishing the new monitor line in the studio market.

Wolfgang successfully introduced a new CI/CD for Neumann.Berlin, culminating in a move to new headquarters in Berlin in 2015. Apart from his business endeavors, Wolfgang has always pursued his musical interests, and has been involved in various international productions of classical, jazz and film music.

Today, more than 80% of the professional recording studios worldwide use mainly Neumann microphones in their work; since 1991, Neumann's turnover has grown tenfold. Most recently, the Neumann portfolio was successfully extended into studio headphones with the launch of the new NDH 20.

"On behalf of the entire executive management board of Sennheiser, I would like to thank Wolfgang for his immense contribution to the company's success," continued Peter Claussen. "With his determination and commitment, his wealth of expertise and close ties within the audio industry, Wolfgang has played a vital role in driving the Neumann business forward for almost three decades. His accomplishments include enlarging the studio specialist's product portfolio and making Neumann a highly desirable brand not only in the studio field. We thank him and wish him all the best in his new endeavors."

## WAVES AUDIO AND ABBEY ROAD STUDIOS INTRODUCE THE ABBEY ROAD STUDIO 3 PLUGIN, POWERED BY WAVES NX TECHNOLOGY

**Waves Audio** has introduced **Abbey Road Studio 3 plugin**, created in collaboration with Abbey Road Studios and powered by Waves Nx immersive audio technology.

The Waves Abbey Road Studio 3 plugin brings the impeccable acoustics of the legendary Abbey Road Studio 3 Control Room to any set of headphones. For the first time ever, thanks to Waves' Nx technology, the complete acoustic response of Abbey Road Studio 3, a perfect music mixing room, has been captured for immersive use on headphones.

The Studio 3 control room is Abbey Road's flagship mix room, designed by the world's greatest acousticians to provide the ultimate music production and mixing environment. This unique control room is home to music's greatest legends. From modern classics by Radiohead, Amy Winehouse and Kanye West, to contemporary mixes of the Beatles and Pink Floyd, to

number-one chart toppers by Frank Ocean, Brockhampton and Florence + the Machine: all were recorded, mixed and perfected at Abbey Road Studio 3.

The Waves Abbey Road Studio 3 plugin brings the perfect acoustics of the Studio 3 control room into your headphones – in glorious three-dimensional sound, powered by Waves' pioneering Nx technology for immersive 3D audio. This unique plugin, used with any set of headphones, gives you the same stellar audio qualities that make Studio 3 the world's best studio control room.

In addition, this plugin also delivers full 5.1 and 7.1 surround sound, modeled after the studio's original surround setup. Users can mix professionally for surround – on any set of stereo headphones.

**Mirek Stiles**, Head of Audio Products at Abbey Road says: "Abbey Road has historically been very

protective of the acoustic properties of its studios for software emulations, and the Studio 3 control room is no exception. After speaking with Yoni Zlotkin (Waves Product Manager) and the Waves team at length over many months, I began to feel more confident these guys had some groundbreaking theories on how such a sensitive task could be realized. Not everything worked first time and we went back to the drawing board on a few occasions. Our breakthrough moment was when Giles Martin came into the Studio 3 control room with some Universal Music executives and we did a playback. The positive reaction from all in the room was immediate and confirmed our suspicions we had created something special and unique. This plugin was probably the most challenging yet and I'm extremely grateful to the Abbey Road engineers for their feedback and input, and to the talented, resilient and patient team

at Waves Audio. I hope this plugin inspires music creators worldwide to realize their visions with more confidence than ever before."

**Mick Olesh**, Waves EVP of Sales & Marketing, comments, "The Waves Abbey Road Studio 3 marks a pivotal point in the prolific cooperation between Waves Audio and Abbey Road, which began in 2011. This plugin is not only a technical breakthrough, it faithfully mirrors Waves' ongoing commitment to serve our user base, by offering them tools that augment and enrich their workflow and especially their creative options. With the Abbey Road Studio 3 plugin, we have managed to overcome a common yet critical missing factor for many engineers, producers and musicians: not only the ability to obtain a professional-sounding work environment, but easy and affordable access to one of the best-sounding rooms in the world."



**SEPTEMBER-OCTOBER 2019: LIGHTING ISSUE**

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Read the entire dope in the upcoming  
**September - October 2019 Issue**

For Advertising Contact

**Smita Rai** at [srai@palmexpo.in](mailto:srai@palmexpo.in)

M: +91 982 094 3398.

For Editorial Contact:

**Ankita Bhadrawale** at [abhadrawale@palmexpo.in](mailto:abhadrawale@palmexpo.in)

M: +91 896 681 2132

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## AVID EXPANDS AUDIO CONTROL SURFACE PORTFOLIO TO BETTER ADDRESS NEEDS OF SMALLER FACILITIES AND PROJECT STUDIOS

Avid has unveiled two new audio control surfaces—the **Avid S4** and **Avid S1**—for professionals at smaller facilities and project studios. These products provide the industry's most integrated, powerful yet affordable solutions and will be available in late 2019.

Avid S4 brings the power and workflows of Avid's industry-leading Pro Tools | S6 control surface to budget-conscious audio professionals and small to mid-size music and audio post facilities in an ergonomic and more compact package. The Avid S1 delivers the unparalleled speed, rich visual feedback, and software integration of Avid's high-end consoles in a portable, slimline surface that's an easy fit for any space or budget.

"The Avid S4 and S1 control surfaces open up a world of capabilities never before possible for music mixers, smaller studios and educational facilities, answering our customers' calls for the power, workflows and key functions of Pro Tools | S6 in more streamlined and affordable in-studio solutions," said Rob D'Amico, Director, Audio and Video Segment at Avid. "Avid control surface, software, audio I/O,

and monitoring capabilities combine to create a professional system with control and flexibility at the user's fingertips."

### World-class mixing for smaller studios with Avid S4

Designed for small- to mid-sized music studios and audio post facilities, Avid S4 delivers industry-standard S6 workflows to any editor or mixer. It acts and feels like a physical extension of software, providing an exceptionally integrated experience with any EUCON-enabled DAW, such as Pro Tools, Nuendo, Pyramix, Logic Pro, Cubase, and other audio software. S4 also enables engineers to quickly assign and control talkback, listenback, and speaker sources and levels right from the surface to handle everything from simple cue mixes for music recording to monitoring immersive audio

projects.

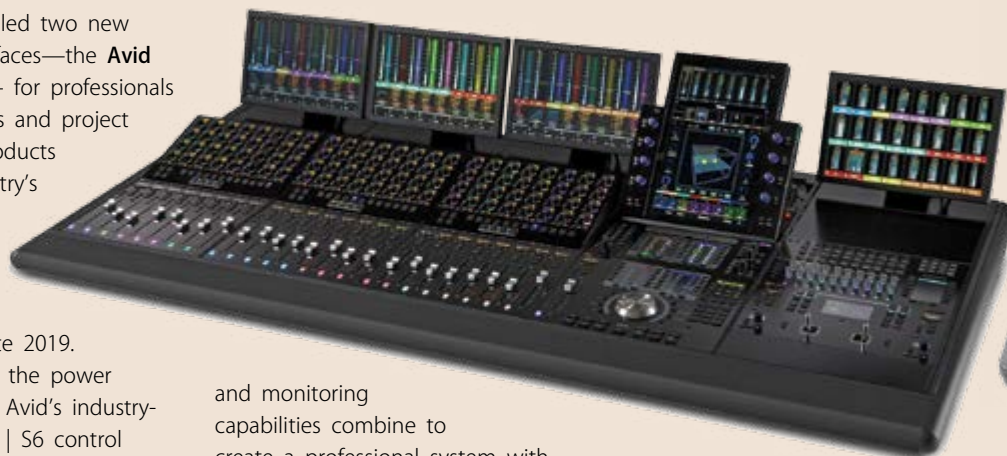
S4 provides extensive visual feedback, with the ability to display everything from channel meters, groups, EQ curves, and automation data, to scrolling high-res Pro Tools waveforms, which can be edited right from the surface. The easy-to-configure, semi-modular surface gives users the flexibility to build the ideal system for a specific workflow, from 8 to 24 faders, with the ability to add displays, joystick, post, and knob modules. When paired with Pro Tools | Ultimate, S4 brings the most efficient hands-on Dolby Atmos mixing in the industry to any room.

### Mix big in any space with Avid S1

Avid S1 gives audio professionals the hands-on speed, precision, and software integration needed

to deliver better sounding mixes faster. From recording and editing tracks, to mixing and monitoring in stereo or surround, S1 provides the comprehensive control and visual feedback to accelerate any music workflow. Like the S6 and S4, the new S1 is powered by EUCON to offer deep integration with Pro Tools and Media Composer, plus native support for third-party applications such as Logic Pro, Cubase, Premiere Pro, and more. With S1, users can easily scale the surface as their needs grow. Audio professionals can connect up to four units together—and even add Pro Tools | Dock—to create a single extended and integrated surface. From responsive motorized faders and knobs to fast-access touchscreen workflows and Soft Keys for completing complex

*(Continued on page 67)*



## AUDIANT INTRODUCES THE NERO DESKTOP MONITOR CONTROLLER

Audient has announced the **Nero** desktop monitor controller. This controller comes with four stereo inputs, three stereo speaker outputs, and a subwoofer output, among other features.

Audient says that the company's analog console heritage and the high-end Centro controller inspire its newest monitor controller.

### FLEXIBLE CONNECTIVITY

The Audient Nero has four stereo analog inputs. These include two line level inputs, one cue mix input, and one aux input (RCA or mini jack). There are also optical and coaxial SPDIF digital inputs. On the output side, the Nero features three stereo speaker outputs and one subwoofer

output. It also has four headphone outputs with independent volume controls – one for the engineer and three foldback headphone outs for the artists.

The Nero features Audient's "Precision Matched Attenuation Technology". The company claims that this ensures perfectly matched volume levels for the left and right

channels. They've also included a feature called Smart Touchpoints, which allows you to customize settings and save them to the Nero's configurable buttons. From what we know so far, it seems that the Nero's routing options are quite a bit more flexible and customizable than the front panel reveals at first glance.

There's also an internal talkback microphone, as well as an input with phantom power for an external talkback mic.

All in all, the Audient Nero seems like an interesting new option for a mid-grade monitor controller. It looks like it does pretty much anything you'd want in a small to medium studio, and maybe more.



## PRESONUS ERIS XT MONITORS NOW SHIPPING

PreSonus is now shipping the new **Eris XT** active studio monitors, featuring an all new elliptical waveguide design that provides a wider sweet spot and more focused vertical dispersion, making them a perfect fit for any near field mix environment. Larger enclosures afford an extended low-frequency response that complements the new high-frequency design.

The new custom elliptical waveguide design provides superior high-frequency response with a broad 100° horizontal dispersion to expand the sweet spot. The tightly focused 60° vertical dispersion minimizes early reflections, helping to eliminate one of the most common sources of environmental interference, creating a more consistent response both on- and off-axis. The result is detail and depths that reveal subtle transients, delicate reverb trails, and a consistent listening experience in any mix environment. In addition, the XT models' ported enclosure is larger than that of the original E5 and E8, allowing them to reproduce

significantly lowers frequencies.

Available in addition to the original Eris E5, the E5 XT features a 5.25-inch woven composite woofer and 1-inch silk dome tweeter, backed by 80W of biamped, Class AB power to deliver up to 102 dB SPL. Its frequency response ranges from 48 Hz to 20 kHz. Replacing the original Eris E8, the E8 XT is equipped with an 8-inch woofer and 1.25-inch tweeter powered by 140W of biamped, Class AB amplification and can crank out up to 105 dB SPL. Its frequency response ranges from 35 Hz to 20 kHz. Like all PreSonus studio monitors, Eris XT monitors provide acoustic tuning controls that allow you to configure the speakers perfectly for your room. You get Low-cut, mid, and High controls, as well as 3-way acoustic space tuning that allows you to easily compensate for the sonic consequences of speaker placement against a wall or in a corner.

Eris XT monitors provide balanced XLR, balanced ¼-inch, and unbalanced RCA line-level inputs, so you can hook them up to an audio



interface, analog or digital mixer, monitor controller, or almost any other line-level source. Eris monitors also have safety features to reduce the chance of accidental damage

including protection against RF interference, output current limiting, over-temperature protection, power on and off transients, an external mains fuse and subsonic protection.

## WAVES AUDIO INTRODUCES THE BASS FINGERS PLUGIN

Waves Audio has introduced the **Waves Bass Fingers Plugin**, an addition to its expanding line of virtual instruments.

Bass Fingers is the most detailed and nuanced finger-style bass virtual instrument in existence. Users can lay down authentic and realistic-sounding basslines with the personality of a seasoned bass player—intuitively on your keyboard.

It is a common challenge to create realistic sounding MIDI bass lines, since there is more to it than just notes—users want to hear the expressiveness, the touch of the strings hitting the frets, and all the goodness that happens in between the notes to make a bassline sound like a player and

not a computer.

Waves' Bass Fingers translates your MIDI input into basslines full of character and personality, giving the same mechanics, variations and dynamics that a seasoned bass player creates naturally across the fretboard. Designed, recorded and edited by highly regarded bass player Or Lubianiker (Marty Friedman, Gus G, Bumblefoot), Bass Fingers is an ultra-natural-sounding, high-performance virtual instrument with an extensive range of articulation and control over your sound—from open string sustain, natural legatos, release and decays, to realistic percussive playing, slides, mechanical noises, and other natural playing effects.

Featuring an extensive sample library that contains 14GB of hand-crafted bass samples,

Bass Fingers offers the most extensive and realistic finger-style bass vocabulary possible.



## AVID EXPANDS AUDIO CONTROL SURFACE...

(Continued on page 66)

tasks with a single touch, S1 provides the speed and versatility to accelerate any music, audio post, or video project.

**Join the Celebration of the Global**

### Music Community

Avid's Connect Live Nashville event celebrates the music community that creates, produces, performs, and distributes its music

with Avid creative tools and solutions. It includes free training classes for attendees, with topics covering studio session recording techniques, live recording technology for gigs,

recording your own demo, and going from sketch to song. Breakout panel discussions will cover Dolby Atmos, music creation, audio engineering, audio mixing, and music production.



## FAMOUS WORKING COMPANY LAUNCHES CO-WORKING SPACE IN MUMBAI

*Famous Studios Mahalaxmi launches its own co-working space for creative entrepreneurs with dedicated seat plans and access to Famous studios different facilities*

Famous Studios believes that every kind of creator deserves to be at a place that offers access to the entire spectrum of services that cater to their art. Innovation in technology and the rising demand for content has laid the foundation for exciting growth opportunities to help creative entrepreneurs create, succeed and grow. The combination of these factors laid the foundation for Famous Working Company: a co-working space designed to foster the creative mind.

Speaking on this occasion, the Founder & Director, **Anant Roongta** said "Famous has always been a cultural hub providing opportunities

foundation for Famous Working Company. We offer you a space embellished with a sweep of services,

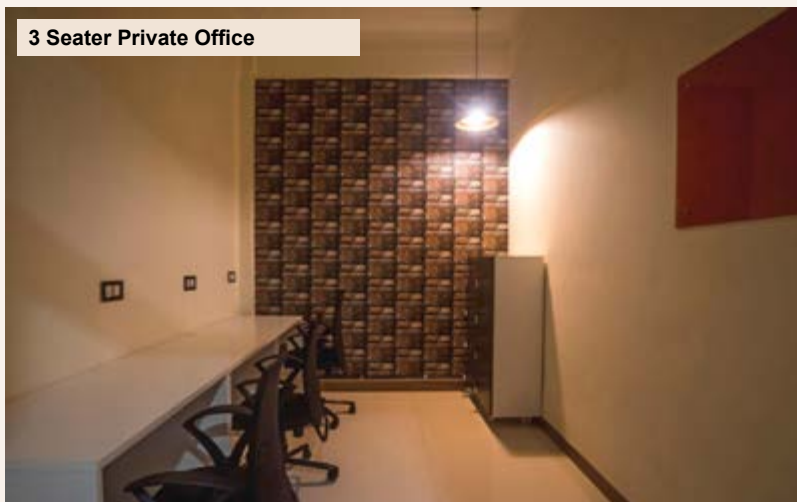
our hot seat plan that allows you to work from any spot that sparks inspiration. This plan gives you

an environment to collaborate in peace. This plan is for individuals and teams who require the calm of walled offices.

Along with the workspace, FWC offers a host of other services to individuals by giving them access to a private movie theatre, sound recording studio, unique spaces like the Glass House Courtyard, the games room and a state-of-the-art conference room. With high speed internet, offers on food and unlimited coffee – we have it all covered.

Apart from these services, only at Famous do you get access the shooting stages, the in-house Motion Capture facility, the

3 Seater Private Office



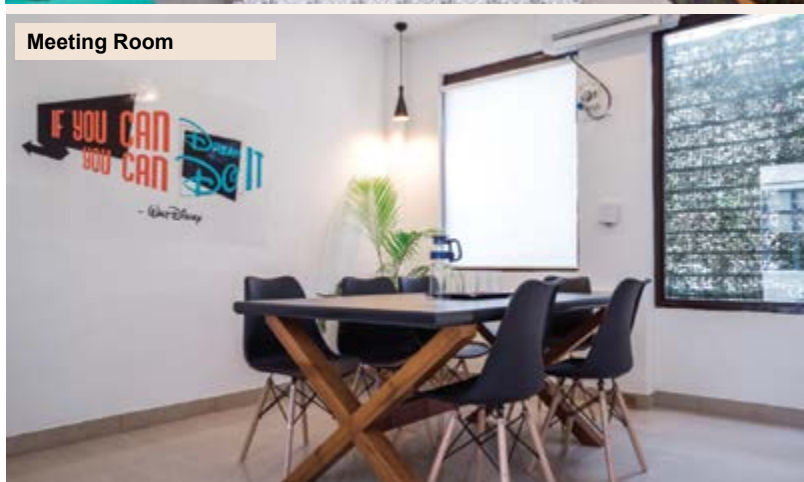
Glasshouse Courtyard



Indoor



Meeting Room



Workspace



to all the creative minds in the industry. In the past decade, we have witnessed a paradigm shift in the media and tech industries. A meticulous understanding of these factors alike have laid the

facilities, latest technologies, and awe-inspiring infrastructure, to help you grow, create, advance and succeed".

The USP about Famous Working Company is their offerings, with three seat plans. The 'Beehive' allows is

access to the open desks in the common workspace area. The 'Nest' is the desk plan, designed to help individuals settle down and have a dedicated desk. Lastly the 'Den' is our cubicle plan that gives your team

Phantom Flex Lab, Ready to shoot sets and a high-end Editing Suite. There is even early bird admission to concerts, events, meets and all the hottest events at FWC.



# DELIVERING BUSINESS

- SOUND
- LIGHT
- AUDIOVISUAL



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## PALM HIGHLIGHTS

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- » IRAA Awards
- » Lighting Design Showcase
- » Live Arena
- » Open Air Line Array Demo
- » Rigging & Trussing Workshop
- » Sound & Light Awards
- » Sound & Light Summit

**For booth booking,  
contact:**

**Ramesh Chetwani**

+91 916 744 7440  
rchetwani@palmexpo.in

**Charu Relhan**

+91 981 977 8712  
charu.r@abec.asia

**Mehul Jain**

+91 836 932 6802  
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# INSTALLATION SPEAKERS

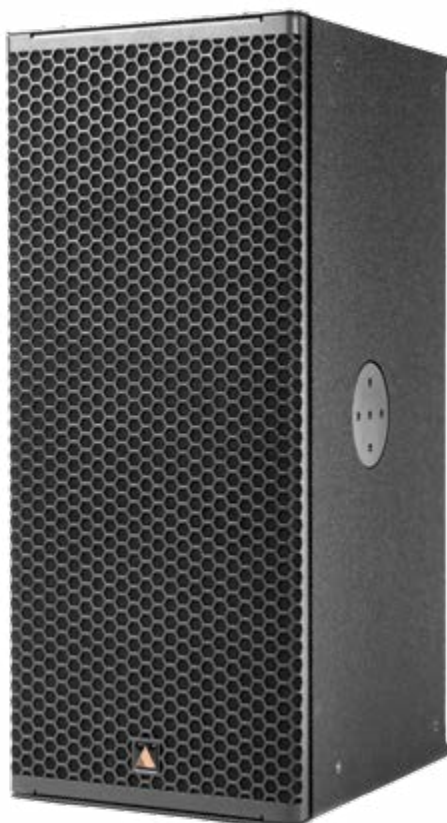
*Spotlight on recent install speakers; Launch Period 2018-2019*

## Adamson Systems IS10p

This IS10p is a 2-way, full range point source cabinet a new point source additions to Adamson's heralded IS-Series of install-focused loudspeaker products. It is suited to a wide variety of applications. Its full range capability (60 Hz) at reasonable levels qualifies for applications where sub is not required. The choice in dispersion pattern enables the IS10p to supplement larger systems as a fill cabinet when in use in theaters, arenas and stadiums. Other target applications include dance clubs, large meeting rooms, and contemporary churches.

### Main Features include:

- It contains 2x ND10-LM Low-Mid drivers (2x 16 Ω) and an NH3-8 1.4" exit compression driver (8 Ω)
- The prolate spheroidal waveguides to produce a nominal dispersion pattern of 70° x 40° (H x V), rotatable in 90° increments
- The cabinet construction uses marine grade birch plywood as well as aircraft grade aluminum and steel, and is equipped with two Speakon NL4 connectors (IS10p), or barrier strips (IS10pb)
- A plate and screw rigging system placed on four faces of the enclosure, with a multitude of accessories allowing the enclosure to be deployed seamlessly in a variety of applications.



### Tech Specifications:

- **Frequency Range (+/-3 dB):** 60 Hz - 18 kHz
- **Nominal Directivity (-6 dB) H x V:** 70° x 40° Rotateable
- **Maximum Peak SPL:** 139 dB
- **Components LF:** 2 X ND10-LM
- **Components HF:** Adamson NH3-8 3" Diaphragm / 1.4" Exit Compression Driver
- **Nominal Impedance LF:** 8 Ω (2 x 16 Ω)
- **Nominal Impedance HF:** 8 Ω
- **Power Handling (AES / Peak) LF:** 700 / 2800 W
- **Power Handling (AES / Peak) HF:** 110 / 440 W
- **Connection:** 2x Speakon NL4 or Barrier Strips
- **Height Front (mm / in):** 737 / 29
- **Width (mm / in):** 326 / 12.85
- **Depth (mm / in):** 442 / 17.4
- **Weight (kg / lbs):** 21 / 46.3

## Martin Audio TH Series

TH Series by Martin Audio comprised two very high performance, all-horn, three-way systems in both a horizontally and vertically formatted package. They are designed to complement the styling of its best-selling CDD and BlacklineX Series and are ideal for nightclub and large scale installs.

### Main Features include: (Three-Way Bi-Amp 15" Horizontally Orientated High Power System)

- All-horn three-way system
- 'Phase-ball' loaded mid-driver
- Hybrid® LF section
- Fitted with handles and castors
- Horizontal format

### Tech Specifications:

- **Type:** Three-way bi-amp trapezoid Hybrid® fully horn loaded
- **Frequency Response (5):** 50Hz-18kHz ± 3dB
- **Driver:** 15" (380mm)/4" (100mm) coil bass driver; 10" (250mm)/2.5" (63.5mm) coil mid driver; 1" (25mm) exit HF compression driver
- **Sensitivity (8) LF:** 104dB, MF + HF: 104dB



- **Maximum SPL :** 133dB continuous, 139dB peak
- **Nominal Impedance:** LF: 8Ω, MF + HF: 8Ω
- **Dispersion (-6dB):** 70° horizontal, 40° vertical
- **Crossover:** 200Hz active, 2kHz passive
- **Enclosure:** 250 litre, multi-laminate birch ply
- **Connectors:** 2 x Neutrik NL4
- **Dimensions:** (W) 1067mm x (H) 558mm x (D) 780mm (908mm); (W) 42ins x (H) 22ins x (D) 30.7ins (35.7ins)
- **Weight:** 77.5kg (170.5lbs)

## Bose DesignMax DM8S

Delivering SPL suitable for foreground music, the 125-watt DesignMax DM8S loudspeaker features a two-way, 8-inch coaxially mounted woofer and a center-firing 1-inch compression driver, producing a 50 Hz - 20 kHz frequency range. The DM8S is surface-mounted and locks onto a hidden QuickHold U-bracket for fast, secure installation..



### Main Features include:

- Deliver instantly impressive sound with custom Bose drivers — no DSP or EQ required. For even better sound, use select Bose DSPs and amplifiers to enable Bose loudspeaker EQ and SmartBass processing, which expands performance and response at any listening level

- Blend into any room design with elegant form factors, minimum-bezel grilles available in black or white, and removable logos
- Reduce installation time with the patented QuickHold mounting system, which also reduces strain, hassle, and the chance of product damage
- Install easily — all models include Euroblock connectors; ceiling-mounted models include plenum-rated backcans, tile-bridges, and front-access audio wiring that makes installation and troubleshooting easier
- Deliver high SPL for clear foreground music
- Applications: Performing arts venues, Places of worship, Conference centers, Retail stores, Restaurants and bars and hospitality venues.

#### Technical Specifications:

- **Frequency Response (+/-3 dB):** 70-20,000 Hz
- **Nominal coverage (H x V):** 115° x 115°
- **Power Handling, peak:** 500 W
- **Maximum SPL @ 1m:** 117 dB
- **Frequency Range (-10 dB):** 60-20,000 Hz
- **Power Handling, long-term continuous :** 125 W
- **Sensitivity (SPL/1W @ 1 m):** 96 dB
- **Nominal Impedance:** 8  $\Omega$  (transformer bypass)

### Next-proaudio Matrix

MATRIX passive column arrays are composed of closely-spaced state of the art, 3" neodymium transducers housed in a stylish and yet sturdy aluminum/wood chassis for excellent Architectural Integration. These speaker arrays has developed in order to offer the highest intelligibility at high SPL and wider frequency response while providing constant beam-width over a user selectable vertical coverage. This accurate beam control extends up to 10 kHz, well beyond the benchmark of 4kHz of traditional single-driver loudspeakers.

#### Main features include:

- These column arrays are able to focus the acoustical energy where it is needed, the listening area, leading to significant improvements to speech intelligibility and musical clarity even in critical acoustic environments.
- For even greater versatility, the vertical dispersion pattern can be switched for Wide or Narrow coverage.
- The heart of the NEXT MATRIX column arrays is the internal processing board.

This proprietary special circuitry takes care of the array optimization and allows the user to easily adjust the system behavior to meet the application requirements.

- For an architectural integrated installation, a 16mm cavity in the back of the speaker provides ample space for hidden speaker wiring, even when the speaker is mounted flat against a wall.
- Removable Input screw connector offers reliable, easier, and more efficient wiring.
- For high-impedance (100V) operation, an optional multi tap transformer is available.

#### Technical Specifications:

- **Frequency Response (-10dB):** 135Hz - 20kHz
- **Horizontal Coverage:** 90° (+/-20° 1.5-5kHz)
- **Vertical Coverage:** 25°(+/-10° 1.2-16kHz) / (+10°/-5° 1.5-16kHz)
- **Sensitivity:** (1W@1m) 100dB/97dB
- **Dimensions (WxHxD):** 108 x 677 x 152mm (4.25 x 26.65 x 5.98in)
- **Net Weight:** 6.2kg (13.7lb)

### QSC CP Series

CP Series of compact, powered loudspeakers represents the best-in-class powered loudspeaker solution for customers who desire QSC performance, quality and reliability at a value price point. This series comprised two 2-way models, the CP8 and CP12. Both models feature a highly efficient 1000-watt Class-D power module, one-touch preset DSP contours for the most common sound reinforcement applications, and line, mic/line and 3.5 mm stereo inputs. Each can also be pole-mounted, utilized as a floor monitor, or deployed in a fixed or temporary installation.

#### Main features include (CP12):

- Advanced DSP with Intrinsic Correction for superior sound quality and speaker

protection

- Directivity Matched Transition (DMT) for consistent frequency response across the entire coverage area
- Professional appearance looks great in any application
- Use for main PA, stage monitor, or instrument amplifier
- 35 mm pole socket
- Optional yoke, tote, and outdoor cover accessories
- It provides one-touch access to preset contours for the most commonly-used applications including Default (Full-Range), Default with External Subwoofer, and Dance with External Subwoofer, Floor Monitor, and Speech.

#### Tech Specifications:

- **Configuration:** Two-way active loudspeaker
- **LF Transducer:** 12 in (305 mm),
- **HF Transducer:** 1.4 in (35.6 mm) compression driver
- **Frequency Response (-6 dB):** 49 - 20 kHz
- **Frequency Range (-10 dB):** 47 - 20 kHz
- **Nominal Coverage Angle:** 75° Axisymmetric
- **Maximum Rated SPL1:** 126 dB
- **Amplifier:** Class D
- **Peak:** 800 W (LF), 200 W (HF)
- **AC Power Input:** Universal power supply 100 - 240 VAC, 50 - 60 Hz
- **AC Power Consumption (1/8th Power):** 100 VAC, 0.75A - 240VAC 0.31A
- **Grille:** 18 Gauge powder-coated steel
- **Dimensions (HxWxD):** 20.3 x 13.8 x 12.7 in; 516 x 350 x 323 mm
- **Net Weight:** 30.3 lbs (13.7 kg)
- **Shipping Weight:** 36.3 lbs (16.5 kg)



- The Product Focus section is purely for information purpose and is only intended as a guide.



# The Bright Spark

## THINK GUYS

Viraf Pocha



Hope all of you had a great PALM Expo.

If you missed it this year, do write it into your schedules and visit next year.

In a short time PALM has become huge. It now spans large areas of land. Its run out of building space and a lot of important installations and exhibition areas are now housed in temporary structures.

As a first sign on how far Event Technology has progressed - even the temporary structures are better equipped than permanent structures were, just a few years ago.

When I congratulated the organisers on the scale they have achieved, all I got is one word - 'INDIA'.

What a fine tribute to a growing country, and a finer tribute to all of us who are helping the country grow. With the masses of people there - we seem to be creating employment and opportunity for so many young ones to build careers.

Things may have changed - but one thing, I was thrilled to notice, has not changed at all - the passion.

### THE PASSION

In our profession we get a chance to walk through exhibitions hosted for so many industries. We do opening ceremonies and award shows for IT industry, Chemical, Hospitality, Education, Textile Industries and so many varied organisations. They may be larger, have more celebrated attendees, more educated and accomplished delegates, but one thing our industry seems to score far above those exhibitions is the passion of the attendees.

In every corner and available public space you will see huddled groups pouring over pamphlets, scribbling notes, animatedly discussing stuff in a range of languages. I love the energy and the Buzz!

The Audio boys are pounding away in the designated areas. Sound Leaking from their sound proofed domes as they test the limits of their amassed speaker cabinets. The moment the sun

dips over the shed - a dozen LED screens jump up. For me the most surreal image is over a thousand moving lights all flying about - silently. No music in a silent hall. Very Cool.

In a small but significant corner at the back of the hall, sit the video boys. Planning our future. Whichever way you look at it - it's just a matter of time before they take over all our work. Right now, its just wonderful to see how projections can alter our world and wonder just how far we will progress down that road.

In all of this market of madness, where stall owners can spend lesser and lesser time with buyers as there are just so many. All shopping for great deals which are becoming both very easy and very difficult.

Prices are dropping, inventories and warehouses are getting stuffed with more and more equipment. Which brings me to my only point of concern.....

#### Where are the designers ?

Sound Designers, Light Designers, Video Designers, DJ's, VJ's and their tribe. They are at the exhibition. Prowling the alleys. Looking longingly at all the goodies on display. But I did not see even one in any serious discussion with a manufacturer or distributor.

What difference? Dhandha is

**“To grow you need money. But to double the growth you need designers and smart engineers.”**

Dhandha! are the two most common phrases I got when I shared this observation with some colleagues.

They are right. But.... and this is a huge BUT..... This is a design driven business. The people are far more important than any bit of equipment.

I remember as a kid as I was trying to buy equipment from a store in the UK and busily striking off and adding stuff from the list of things I could afford. The senior manager who had kind of taken this nervous

Indian brat under his wing, took me out for a sandwich and explained to me, 'Son, whichever way you cut it, if you are successful, your professional fee will definitely be more than return on investment on equipment. Trouble is, if you don't have top class equipment - you'll never be a top class designer.'

No truer words have ever been said to me, and I personally have benefitted immensely from this wisdom. Friends thought I was an idiot to borrow to buy equipment I still did not know how to use. But I am so...so...so glad I did.

Who knows? Was it the fear of not being able to repay the loan. The pressure I put on myself to work myself out of this strange spot I found myself in. The determination to prove all the naysayers wrong - or some combination of all three that made me just get better and learn more. To this date that desire to top myself persists - even if my bones creak in agony over the stress we put onto our bodies.

### PALM SOUNDSCAPE

Which brings me to the session I was privileged to moderate at PALM. Big Show Technology. A Bit out of comfort zone, I was a little nervous going in. But I was lucky enough to have some great panellists who taught me so much. Cleared up so many things and has made my view of the future of our business a bit clearer.

When they reminded me of my old business professor who had taught us 'Growth begins at the end of your comfort zone' How do you grow in a market you know very well, but is saturated.

Inevitably the answer lies at the end of a design driven process. You have to re-design and / or re-engineer your entire proposition. Find new applications for old technology. Or jettison old technology to embrace new technology that must double your ability to deliver at half the cost.

To grow you need money. But to double the growth you need designers and smart engineers.

Which brings me back to my feeling of loss when I saw the designers being excluded from the business process at the exhibition. How does a designer power his way into a

finance meeting?

How do we get a finance guy focussing on cutting costs, to open up and spend money on a designer who can save costs in the long run.

Too too often I have seen decisions being shut down to service a short term financial goal.

And to be fair must add - To limit risk.

I sincerely hope some big thinkers come into our profession soon and back the right people to take our industry forward.

It's just a matter of time before any collective public experience will have to employ significant amounts of technology and we must have the designers in place and trained to take advantage of these situations and draw in the crowds and the attention.

I hope stakeholders realise that simply throwing money and people at a problem will not solve it. We need imagination, we need discipline and we need coordinated execution to deliver our promises. If done well - The rewards will outnumber then investments.

We need a 'Sholay' moment to catapult our industry forward.

I am praying that at PALM our industry's Ramesh Sippy was dreaming of Thakur and Gabbar while scouting for Veer and Jai and Basanti. Fingers Crossed he brings them together.

.....

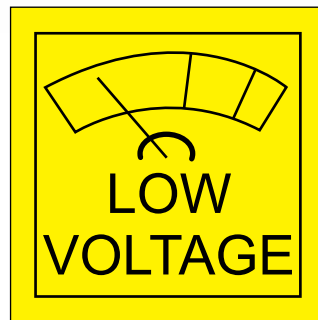
*(The views expressed by the author are his own personal comments and the magazine does not subscribe to them).*



# INDIA'S FAVORITE AMPLIFIER



**RX-2000.....900 + 900W RMS @ 2 Ohms**  
**RX-3000...1250 + 1250W RMS @ 2 Ohms**  
**RX-4000...1550 + 1550W RMS @ 2 Ohms**  
**RX-6000...2300 + 2300W RMS @ 2 Ohms**



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## ELATION LAUNCHES PROTEUS & SMARTY

Elation Professional has debuted **Proteus Maximus**, **Smarty Max** and **Fuze Series LED moving heads**.

**Proteus Maximus** a powerful wash/beam and profile LED luminaire kicks out 50,000 lumens and houses a top-of-the-line design package. With a custom designed 950W LED engine and large 180mm front lens, Maximus has the power to cut through at even great distances and an IP65 protection means it can be used exposed on outdoor shows.

**Smarty MAX** is an extreme-output Spot/Beam/Wash hybrid moving head featuring a new Platinum FLEX 400 lamp rated at 480W with up to 4,000 hours of smart lamp life. Combining CMY and variable CTO, this hybrid incorporates a full iris for dynamic beam effects. Compact and lightweight with a large 160mm front aperture lens, four prisms on two planes, dual frosts plus dual gobo wheels and dual track animation round out the design package.

All new **Fuze series LED** moving heads include the **Fuze Spot**, **Fuze Profile**, and **Fuze Profile CW**. Both the **Fuze Spot** and **Fuze Profile** house 92 CRI RGBMA LED engines and deliver a powerful output of over 9,000 lumens. Compact, quiet, and lightweight, both fixtures house a 7° to 46° zoom, dual gobo wheels, animation wheel, frost, prism, and iris. The **Fuze Profile CW** houses a 91 CRI, Cold White 380W LED engine that delivers a flat field output exceeding 12,000 lumens.



## FOCUS SERIES EXPANDS WITH INCREDIBLY BRIGHT BEAM FIXTURE

ADJ has announced the expansion of its popular **Focus Series** of LED-powered moving head fixtures with the introduction of the **Focus Beam LED**. The first dedicated beam fixture in the range, this new model generates

Powered by an extremely efficient 80-Watt white LED light source, with a color temperature of 7400K, the **Focus Beam LED** features an advanced optical system which creates an output comparable to an MSD 5R lamp. The unit's large front

average LED life expectancy effectively means that the inconvenience of lamp replacement becomes outdated.

Featuring a variety of high-quality beam manipulation tools, the **Focus Beam LED** offers lighting designers a wealth of creative potential. This begins with the 13-position (+ open) dichroic color wheel, which features a useful mix of vibrant saturated hues and more subtle muted tones as well as a CTO filter. In addition to this is a separate Gobo wheel, which is loaded with 15 fixed metal patterns (+ open). These include four beam reducers, allowing the creation of extremely narrow pencil-thin beams, as well as a diverse collection of simple patterns that have been deliberately selected for generating sharp mid-air effects.

The fixture also offers motorized focus, which is the signature feature of the **Focus Series**. This allows lighting designers to ensure projected GOBOS remain sharp over any throw distance, while also having the option of deliberately blurring them to create more subtle textured projections.

In addition, the **Focus Beam LED** also offers a linear 0-100% frost filter, which allows the unit to do double duty as a wash luminaire if required.

In terms of connectivity, the unit is fitted with both input and output power connections – in the form of locking Seetronic sockets – which allow the power supply for multiple fixtures to be linked together (up to 15 @ 120V or 30 @ 230V). A USB socket is also fitted for easy future firmware updates, while standard 3-pin input and output sockets allow integration into a DMX control system.

"The **Focus Series** has proved very popular for a wide variety of applications across the middle market of the entertainment lighting world," explains ADJ USA's National Sales Manager, **Alfred Gonzales**. "From churches to nightclubs, production companies to mobile entertainers, **Focus Series** moving heads have made their mark on fixed installations and temporary event productions all over the world. Which is why we are excited to be expanding the series with the new **Focus Beam LED**. Despite its compact size and low power requirement, this impressive fixture generates a surprisingly-potent beam that is capable of holding its own in large spaces, working alongside video and other lighting equipment. Having already demonstrated the fixture a number of times to an overwhelmingly positive response, I know this is going to be very well-received by lighting professionals across the board."



a highly-concentrated solid beam that is incredibly powerful, making it ideally suited for creating impressive and engaging aerial effects.

lens projects a beam with a 5-degree angle that has an even field with no hot spots, which remains uniform over tremendously long projection distances. Meanwhile its 50,000 hour

## MELOS SYSTEMS LATEST SEGMENT OF SHORT TRUSS SEGMENTS

Melos Systems has introduced a redesign of the short truss segments in their **M290 range**, which

incorporates thicker bracing tubes. As per the company, redesign of these tubes increases the shear load

capacity of the short truss sections, resulting in strength equal to that of MILOS regular truss sections.

With the introduction of this new design, short truss sections can now be placed anywhere within users' truss structure without having any adverse impact on the structure's loading capacity. Users planning process is therefore simplified and the risk of errors during structure assembly is eliminated.



## PROLYFT EXPANDS ITS SERVICE OFFERING IN INDIA WITH NATURA RIGTECH

**Prolyfte Asia Pacific**, which is a part of Prolyte Group, has recently collaborate with Natura RigTech. The aim of this collaboration was to increase ProLyft service to the entertainment industry in India and to provide all its Service Point related facilities with immediate effect.

Reportedly, these service points will provide a trained team of professional technicians capable of repairing and maintaining manual and electrical chain hoists. All the SP's will stock in spare parts to offer quick and smooth servicing and repair.

These service points also use the ProLyft database to store to provide all servicing information, providing optimal service and smooth

communication. Most importantly, they perform annual inspection and recertification in accordance to the lifetime warranty of ProLyft hoists.

Natura, Mumbai, established in 2006 has successfully made his place within the rigging industry. **Avishkar Tendle**, managing director of Natura commented: 'Our business has not focused on this kind of service in the past, but it is certainly in line with our philosophy as a company. This is why we are very glad to be appointed as a Service Point for the nearly two decades long "best-selling chain hoist in India". Our main focus as a Service Point will be on servicing and recertification of the many existing, languishing hoists in India.'



## AYRTON PRESENTS PERSEO-S - ITS FIRST IP65 RATED PROFILE FIXTURE

Ayrton is very excited to present **Perseo-S**, its first multi-function, compact and powerful, IP65-rated fixture developed for intensive outdoor use.

### Extreme optical efficiency

Perseo-S produces a 27,000 lumen output from its 500W LED source which is calibrated at 8000K. Perseo-S has been designed to achieve an optimal resolution-to-performance-to-efficiency ratio with perfect image reproduction, a zoom range of 7° to 56°, no hotspot and significant improvement from distortion at wide angles.

### Built to withstand the elements



Perseo-S features a new minimalist design in die-cast aluminium so it weighs in at under 40kg. It incorporates full weather-proofing features that ensure easy accessibility, including a highly effective phase-change liquid cooling system fitted with four submersible fans located outside the watertight enclosure and a new water-resistant menu navigation system.

### Feature rich from the factory

Feature rich as standard, with a wealth of effects and gobo options, and of course, 100% framing shutters, Perseo-S also boasts a subtractive CMY colour mixing system for perfect colour mixing, a variable CTO and

a wheel with six complementary colours that combine to produce an infinite palette of vivid pastels and saturated colours.

Perseo-S is the latest in Ayrton's new range of profile, spot and wash fixtures and the ultimate in versatility. Designed for the broadest range of applications, Perseo-S is the first moving light ever that is ideal for both indoor and outdoor use, due to its compact size, incredible output, light weight, ease of service and beautiful lines. It can be controlled by DMX-RDM, ArtNet or a wireless link using CRMX TiMo RDM from LumenRadio.

## ETC UPGRADES NETWORKING WITH RESPONSE MK2 DMX GATEWAYS

ETC's new Response **Mk2 DMX** Gateways ensure DMX and RDM get there, too. The Response Mk2 DMX Gateways flawlessly translate DMX/RDM to and from sACN, allowing users to put

control exactly where they need it – saving headaches, money, and time, says ETC.

Available in 1-, 2-, and 4-port models, Response Mk2 DMX Gateways provide DMX and RDM

data distribution, taking advantage of the reliability and interoperability of industry-standard protocols such as ANSI E1.31 (sACN) and ANSI E1.20 (RDM). With wall-mount, portable, and DIN rail form factors, users can always find the perfect fit for your application. And every model – even the 1-port! – now features a crisp OLED screen and four-button interface to clearly display (and modify) configuration and status.

Response Mk2 DMX Gateways make it easy to deal with the headaches of networks, too. With increased processing, each Gateway

can support 256 RDM devices. Plus, all Gateways can be monitored and configured from a central location with ETC's powerful Concert software, letting users change network status and DMX/RDM settings. And when you want to be more hands-on, the easy user interface on each Gateway ensures you can configure it exactly as you want it – right at the Gateway itself.

Response Mk2 DMX Gateways offer powerful integration into ETC's Paradigm, Echo, or Mosaic architectural lighting control systems and of course they pair perfectly with ETC's entertainment controls.



ETC's Response Mk2 DMX Gateways



## ADJ EXPANDS SABER SERIES WITH 6-HEAD PINSPOT FIXTURE

ADJ has introduced the new **Saber Bar 6**. This integrated lighting system features six Saber Spot style pinspot heads mounted on a 1-meter base with a single set of data and power connections. It is ideal for table spotting and other event décor

razor-sharp beam of light. Each spot is independently dimmable and can also be moved on its X and Y axis to point in any desired direction.

With a very tight 5-degree beam angle, the Saber Bar 6 can be used to create mid-air beam effects as well

metal construction with a durable matt black powder-coated finish. It is supplied with two heavy duty adjustable brackets, which can be moved along the bar and locked into place as required. These brackets can be used to form a floor stand or attached to the supplied Omega brackets for overhead rigging or truss mounting. With a manageable weight of 25 lbs. (11.3 kg.) and compact dimensions of 39.5" x 11.5" x 3.75" / 1005 x 292 x 95mm (LxWxH), the fixture is easily portable and convenient to rig.

For maximum flexibility, the unit is fitted with both 3-pin and 5-pin DMX input and output sockets. It also features locking power input and output sockets, which can be used to daisy chain the supply of up to 11 fixtures at 120V (12 at 240V) from a single power source. Due to its extremely efficient LED light sources, the Saber Bar 6 consumes a maximum of just 85W of power and offers auto-sensing multi-voltage operation (100-240V, 50/60Hz) making it suitable for worldwide touring productions.

"The Saber Spot Series of LED-powered pinspots has proved to

be popular with many lighting professionals who have put them to use in a multitude of varied applications," enthuses ADJ USA's National Sales Manager, **Alfred Gonzales**. "The new Saber Bar 6 adds a new flexible lighting tool to the Saber Spot family which is ideal for when multiple pinspot beams are required in one place. It combines the convenience of a single power and DMX connection with the flexibility of six separate pinspot beams which can each be individually positioned and controlled. This, together with a flexible bracket system and three beam angle options, makes the Saber Bar 6 an attractive option for a wide variety of applications from table spotting in a banquet hall to creating beam effects on a performance stage."

The Saber Bar 6 is available now from ADJ USA and is due to be available from ADJ Europe from July 2019. It expands the existing Saber Spot range which already includes the Saber Spot WW (warm white), Saber Spot DTW (Dim-To-Warm) and Saber Spot RGBW (red, green, blue & white) models as well as the battery-powered Saber Spot Go.



applications, both temporary and permanently-installed, as well as for use on performance stages and retail displays.

Each of the unit's six pinspot heads makes use of a 15W warm white LED light source focused through an ACL lens to generate a potent and

as to spotlight small areas of a stage or display. However, the fixture is also supplied as standard with two sets of lenses kits, each featuring six separate lenses, one to extend the beam angle to 10-degrees and another to widen it to 45-degrees.

The fixture itself has a tough

## VARI-LITE'S NEW VL6500 WASH DELIVERS HIGH OUTPUT AND VINTAGE STYLING

Vari-Lite, has announced the launch of its new **VL6500 WASH**. This new high-output wash lighting fixture reportedly combines the VL6000 BEAM's arena-scale performance with a head-turning visual attraction reminiscent of the legendary VL5, offering show designers an unmatched mix of modern power and vintage styling.

VL6500 WASH is a fully featured wash fixture with the same form factor and color-matched presets as its award-winning sibling. "The VL6500 WASH is a direct response to requests we have received from lighting designers," explains **Martin Palmer**, Senior Product Manager, Vari-Lite and Strand Luminaires at Signify. "We partnered with designers every step of the way when creating this fixture, improving the color system while

matching the presets for a consistent experience. The result is a perfect partner wash for VL6000 BEAM's large-format presence on the world's most ambitious rock stages."

While it shares the distinctive large



front lens of the VL6000 BEAM, the VL6500 WASH also adds Vari-Lite's iconic Dichro fusion blades. These unique blades offer diffusion with variable beam width and harken back to the vintage styling of the Emmy Award-winning VL5. "More and more, lighting fixtures serve as set pieces in their own right, and designers are looking for fixtures that not only create great light, but also look great on camera," explains Palmer. "The Dichro\*fusion blades on the VL6500 do both."

One of the enhancements the VL6500 brings is Vari-Lite's renowned full CYM+CTO color system that provides numerous vivid and creative color options. For even further creative color possibilities, the VL6500's extended color range mode offers the ability to move the color mixing wheels beyond full saturation

back to open. This allows designers to use creative split color effects that can be seen both in air and on the Dichro\*fusion blades. To simplify programming when moving between color presets, the VL6500 offers the same Cloak Transition Generator (CTG) first seen on the VL6000. This allows the fixture to automatically dip to dark when moving between color presets without additional programming.

"The VL6500 WASH is an exciting addition to Vari-Lite's range of unique new fixtures," says **Fernand Pereira**, Global Head of Marketing and Product Management, Vari-Lite and Strand at Signify. "While it includes a variety of modern technology features, it also offers a look that makes it a stunning addition to the brand's unrivalled moving light heritage."

## NUMARK INTRODUCES SCRATCH MIXER WITH PRO FEATURES

Numark has announced the introduction of their new Scratch mixer, an incredible unit with pro features and comprehensive software.

The Numark Scratch offers a versatile array of features with powerful simplicity unheard of in this category of affordable mixer: Six direct access software FX buttons deliver quick access to a comprehensive array of effects with both timing and intensity controls. These effects are triggered by a pair of intuitive performance base toggle paddles, usually only found in mixers at premium price points.

4 performance pads deliver hot cue triggering, rolls for creative build-ups and quick beat stabs, and



sampler control so DJs can spice up their mix — all unheard of at this price point. Separate direct access software looping controls are found on each channel, allowing DJs to unleash their creativity. Plus there is a Low/High-pass filter that is not software-dependent, so it works as conveniently and effectively with analog turntables as it does with software-based FX and controls—amazing versatility!

The professional quality of the Numark Scratch is unrivaled, with an impressive 108dB S/N ratio, true balanced high level XLR outputs, separate Zone/Booth control, and an included professional standard innoFADER

crossfader. This is a high-quality crossfader built especially for scratch DJs. With butter-smooth action and bullet-proof reliability, it's perfect for the heaviest-handed scratch DJ and the hottest non-stop action.

"Numark is where scratch mixing originally got its start. This latest mixer from Numark will absolutely change expectations on what a basic scratch mixer should include, that's how significant this is," said **Chris Roman**, Senior Product Manager for Numark. "By incorporating modern day features, this mixer gives every DJ in the world—regardless of their budget—the opportunity to perform at a higher level with more creativity than they ever dreamed possible. Scratch combines pure DJing fun and no-compromise professional performance in a way that's never been done before at this affordable price point."

## GET STARTED IN PORTABLISM WITH RELOOP SPIN

Reloop has announced Spin, a turntable for scratching on the go. Reportedly, it's got a seven-inch platter that can accommodate up to 12" vinyl records, a tonearm with an attached headshell, an integrated speaker, a crossfader that can be placed on either side of the turntable, three platter speeds, RCA outputs, and pitch and tone controls. It even comes with a seven-inch slip mat and vinyl record filled with scratch sounds and beats.

It's also got an Aux In for plugging in an external source, and it even has Bluetooth connectivity onboard so you can stream music from your smartphone and play through Spin's built-in speaker. The unit can be powered by batteries, a USB power bank, or a USB power adapter sold separately.

Finally, Spin also has a USB jack onboard, letting you record users scratch sessions straight to a thumb drive. Users can also use it for ripping

vinyl.

The portablism scene is thriving due to popular releases such as the Numark PT01 as well as a strong modding community powered by boutique brands like Jesse Dean Designs and Raiden. However, DJs who want to get in may find all the options daunting, and Spin makes getting



started simple since it has everything a new portablism DJ needs straight out the box.

## SERATO UNVEILS STUDIO BEATMAKING SOFTWARE FOR DJS

Serato has announced that its Serato Studio software is now available. Reportedly, it's a streamlined music production app for Mac and PC that lets you quickly come up with beats using a Serato DJ-inspired interface that will look familiar to digital DJs. The way it works is users add drum sounds, basslines, music loops and effects from Serato Studio's library, which users can then arrange into chunks to form a tune.

Serato Studio makes all of this easy because it automatically syncs

musical elements to the project's musical key and tempo, increasing the chances that beat's individual elements will "fit" with each other.

New features have been added to this release version of the app, including a Master Key Change control for quickly pitching the entire project up or down, the ability to add swing and to draw triplet notes in the step sequencer, and a Master Deck Waveform that let users see their project's waveform in real time as they make changes to it. Serato Sounds has also been launched,

which gives a fresh Serato Studio sound packs to play with every

month as part of the Serato Studio subscription.





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### *For more info contact:*

**SMITA RAI**

**srai@palmexpo.in | Mob: +91 98209 43398**

### *For Editorial contact:*

**Ankita Bhadrawale**

**abhadrawale@palmexpo.in | Mob: +91 89668 12132**

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