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PALM & AV-ICN expo 2022 Keynote Address

CHOPRA'S KEYNOTE PUSHES FOR INDIAN MANUFACTURING, INDIAN BRANDS

*The 20th PALM Convention Keynote address by Founding Director **Anil Chopra** gave a clarion call for major investment into manufacturing pro audio, pro lighting and pro AV hardware in India. The essence of the keynote emphasised that Indian market has matured to such a level that it becomes necessary to possess the entire ecosystem of manufacturing to the extent where there is absolutely minimum dependence on any supply chain that could disrupt availability of product to rapidly expanding markets in India. **PALM + AV-ICN magazine** met with Anil Chopra to explore the Keynote message and discuss the state of the Indian pro audio, lighting, AV industry. Chopra said the following:*



Anil Chopra, Founding Director - PALM AV-ICN Conference

Our guidance is essentially on growth of market. PALM platform, expo, convention, magazine, newsletter, awards, features, all our efforts are aimed at expanding markets, developing professionals, creating business opportunities, and most importantly PALM focuses on being a source for exposure to new technology and latest products. PALM therefore is the platform that welcomes international brands and products, manufactured worldwide to exhibit, expand distribution, service and manpower in India. Definitely this remains our primary goal and delivery.

What my keynote point is the market in India has grown tremendously, India is a developed market today. Every aspect fulfils a highly

professional maximum market. Demand, consumption, affordability, quality, price, service, availability, knowledge of technology, product utility, is on par with the US or UK, Japan or Germany.

So much so, that online, ecommerce is on a fantastic exponential growth. E-commerce of course depends on surety of supply; the more guaranteed your product supply, more the exponential growth.

The main thing is possessing the entire ecosystem of manufacturing to explode the Indian market.

Therefore our guidance is on manufacturing. This is the growth and

investment guidance.

We understand a successful product is all about innovation and new technology R&D and this depends on manufacturing. Manufacturing technology is important to drive innovation. Talent in our pro audio and proAV industry is capable of engineering new product on latest IoT, AI, VR, 5G and touchless and automation and lasers and new algorithms our design and lab can easily create state-of-art, the missing link is manufacturing. Then you will as well create global brands.

The reason for such growth and potential that we witness today is the

hardwork passion of the industry these last 20 years of the exhibitors who have in fact painstakingly introduced new products year-on-year at the expo. Sourcing successful products from all over the world. Invested in their belief and expanded distribution and dealer systematically. The other factors are also key. Increase in purchasing power, development of economy on every front from jobs, mobility, housing, and above all, lifestyle. Hospitality boom and the biggest boom of all in communications. Cumulative demand of applications in all these growth segment has resulted in this huge demand.

All these factors speak volumes to grasp the enormity of potential and opportunity to exploit the pro audio, pro AV and lighting opportunity.

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RENTALS ACROSS INDIA JOIN THE ADAMSON NETWORK WITH SIGNIFICANT INVESTMENTS

India is an important market for **Adamson Systems Engineering** and business growth in the territory has remained consistent for the brand. Without an iota of doubt, the credit for this consistent growth goes to **StageMix Technologies** – the exclusive authorized distributor for Adamson products in India. StageMix has today amassed a wealth of customers, allowing them to stay at the forefront of the Indian pro audio distribution segment.

“The response to Adamson’s products in India has been immensely positive from the get-go, and it’s just getting better,” says **Karan Nagpal** of Stagemix. “Engineers and artists alike are adding Adamson speakers to their riders, and we’re elated that more and more companies are joining the Adamson network and also expanding their Adamson inventory.”

Here’s looking at some rental companies who have substantially expanded the Adamson inventory and relied on StageMix for their recent sound system sourcing.

Sugandar House of Sound & Light

Sugandar House of Sound & Light, a premier sound and light rental vendor from Bengaluru, with a vision to become the solutions provider of choice to all major events taking place in Bengaluru and around, has taken delivery of **8 S10 2-way**, full range line array cabinets and a **Lab.Gruppen PLM20K44 amplifier**. This new addition joins Adamson **E12 line array** enclosures and a number of **E119 subwoofers** already in their warehouse.



“Our clients’ riders demand a high standard of equipment and skills, which is why we decided to further invest in Adamson, adding the S10 to augment our already comprehensive inventory,” says **Prabhakar** of Sugandar. “Our passion, teamwork, and commitment to excellence are the foundations on which we have built this business, and the results can be seen on the range of projects underway at any given time. We have already put the S10 cubs of Adamson to the test at various occasions including at the Hard Rock Cafe in Bengaluru. The sound is dead accurate with such precision, offering everyone a wonderful experience! The high caliber of Adamson’s S10 has helped us extend our industry-leading position in all aspects of the events arena and cater to a larger client base, which continues to grow by the day.”

Royal Entertainer

Delhi based Royal Entertainer has expanded their existing inventory with the addition of **8 S10 line array cabinets** and **4 E219 subwoofers**. Royal Entertainer first invested in Adamson in March 2019 with the purchase of a S-Series line array package including the S10 two-way, full range enclosures with complementary S119 subwoofers.

Sunny Singh, owner of Royal Entertainer says, “Our Adamson system offers more power than any other cabinet, in a compact and lightweight package. It delivers extraordinary sound even at high levels, with a very homogeneous coverage.” When

asked why they decided to add more S10 boxes to their inventory, Singh comments, “Our early investment in the Adamson S10 has been a great success - it has exceeded our expectations and become the most requested PA. We are proud to be early



adopters of the Adamson S-Series in India. The service and training received from StageMix and Adamson has strengthened our bond further.”

“We’re excited to see the continued growth in demand for Adamson systems, and the addition of 8 S10s is another example of Adamson’s increasing popularity in India. We are thrilled to have bolstered our Sales Network with some great new partners, and the expansion in inventory of our present partners, with Royal Entertainer continuing that trend,” says **Eshdeep Bhasin** of StageMix.

Total Productions

One of the leading production firms in South India, Bengaluru-based company Total Productions has strengthened its inventory with a sizeable investment in **E-Series loudspeakers** from Adamson Systems.

“The demand for high-performance audio systems is on the rise,” comments **Francis Perry**, Director of Total Productions. “Looking to significantly augment our audio inventory with a high-end, sub-compact solution, I traveled extensively in Europe to see the Adamson E-Series in action. I heard the system’s performance in some of



Europe's biggest festivals such as Pinkpop in the Netherlands, and Rock Werchter in Belgium. Seeing the system deliver power and clarity to audiences of over 1 lakh people, it was a no-brainer to invest in Adamson."

Total Production's new E-Series package consists of **24 E15 three-way**, true line source enclosures, along with a complement of **18 E219 subwoofers**, driven by a suite of **Lab.Gruppen PLM20K44 amplifiers**.

"We are very happy with our ongoing growth in the Indian market thanks to our great partners," says Karan Nagpal of StageMix. "We're proud to welcome Total Productions to the Adamson Network and look forward to supporting them as they expand their profile and supply Adamson's state-of-the-art technology to major events and clients throughout the country."

LumaSonic

LumaSonic, a full-service modern event technology provider based in Goa has expanded its Adamson inventory to better support its extensive client list, which includes many of Goa's well-known music events and festivals.

Their new addition includes **4 S10 line array** enclosures and **2 E219 subwoofers** along with a **Lab.Gruppen PLM20K44 amplifier**, which joins their initial package of 16 S10 cabinets and 8 E219 subwoofers from Adamson Systems Engineering.

"Our steadfast resolve is to provide reliable, cutting-edge event technology backed by competent professionals committed to effective utilization," says **Craig Saldanha**, Director of LumaSonic. "Designed with the accuracy of Blueprint AV, the Adamson S10 is highly versatile and supports the smallest to the biggest applications you can think of, making it our ideal choice. Pair this with the mighty E219 subwoofers and they deliver a thunderous low-end rumble with consistent, crystal-clear



audio. Together, they form our primary P.A. system and it's always a pleasure working with them. Plus it's very rider-friendly, and is the preferred brand for many artists including maestro A.R. Rahman, and Guru Randhawa! We are ecstatic to find ourselves among the top names of vendors in Goa that provide high-quality sound systems and can't wait to deploy our newly-expanded Adamson inventory for a myriad of applications."

Ganpati Sound

Rajasthan based Ganpati Sound has further bolstered its rental inventory with **4 S10 line array cabinets** and **4 E119 subwoofers** from Adamson, along with **2 Lab.**



gruppen PLM20K44 amplifiers. Their existing Adamson system of E15s, S10s and E119s & E219s saw plenty of action on major tours and events in 2020 & 2021 and now, they are all set for a jam-packed 2022.

The company was the first in Rajasthan to invest in Adamson Systems Engineering boxes, and as their business has grown, so has their relationship with Adamson and StageMix Technologies.

"The S10 & E119 are very impressive for their size. This system offers us comparable power but is much smaller and lighter, with easy rigging," says **Banwari Lal Sharma**, owner of Ganpati Sound. "Undoubtedly, you invest in gear that will help your company grow, but it's even more amazing to make that investment with such a supportive team like at StageMix and Adamson."

Avision

Avision, one of Mumbai's top event production providers, catering to a high-caliber client list, in 2019, added a complement of S10 two-way, full range line array cabinets and accompanying S119 subwoofers, which have been an ideal solution for the majority of their operations. Based on the astounding positive response, the company has now invested in **4 more S10 enclosures** and **2 S119 subs** along with a **Lab.Gruppen PLM20K44 amplifier**.



"We have deployed our Adamson system in all types of conditions on a variety of applications with excellent results every time," comments **Maresh Martal** of Avision. "The S10 is just perfect for our requirements! It delivers natural and impactful sound throughout the venue, all in a lightweight cabinet that's extremely easy to rig. What's more is that it looks great, and we have received numerous compliments from across the board."

PP SOUND LIGHT PRODUCTIONS PVT LTD EXPANDS INVENTORY WITH D&B AUDIOTECHNIK AND SENNHEISER

Mumbai based sound, light and event technical solutions provider **PP Sound Light Productions Pvt. Ltd.** have recently expanded their inventory with the inclusion of gear from **Sennheiser** and **d&b Audiotechnik**. The new purchases join the company's existing cache of impressive technologies which includes a comprehensive loudspeaker reserve featuring the **T Series Line Array System** and **MAX 2 STAGE MONITORS** from d&b Audiotechnik, a full-format **Venue S6L Mixing Console System** from **AVID**, a comprehensive **Axient Digital Wireless Microphone System** from **Shure**, and a plethora of microphones and wireless technologies from Shure as well as Sennheiser. These new purchases, according to the company, now puts them in a formidable position to capably commission a more diverse profile of events.

A whole new line-up of the V Series line array modules along with the B22 high-performance subwoofers from d&b Audiotechnik joins PP Sound Light Productions' existing loudspeaker inventory; with this purchase coming in as a direct response to the need for the company to reinforce their catalogue with gear that's not only flexible and adaptable but also seamlessly compatible with their existing rig, thereby allowing for enhanced scalability value of their services.

Prasad Parkar, Director of PP Sound Light Productions Pvt Ltd, informs, "From the day we started this company, we were clear that we would stock only world-class equipment in our inventory. Our no-compromise attitude is perhaps the key reason that prompted us to initially invest into a formidable setup of the T-series line array system with B22 subs and Max2 stage monitors from d&b Audiotechnik", explaining that this initial investment turned out to be extremely effective as it had a direct positive impact on the shows that the company commissioned, which in-turn resulted in us winning over a more diverse profile of events and clientele. "With the steady increase of work since the relaxation of COVID restrictions, we kicked off the event season with all guns blazing, and eventually found ourselves swarmed with multiple inquiries. Our decision to purchase the d&b V series and additional units of the B22 subs was purely to help us ensure that we could meet the demand of the various different clients that insist on their events being commissioned only by our company!" he emphasizes.



Prem Bhoir (L) and Prasad Parkar (R) of PP Sound Light Productions

Speaking about the technical capabilities and features of the d&b V series and B22 subwoofers that further reinforced Prasad's purchase decision, he explains that the sophisticated design of the system coupled with its impressive power optimization and loudspeaker management capabilities proved to be the key deciding factors. "The V series line arrays and the B22 subwoofers have all of d&b Audiotechnik's trademark qualities – they are light weight, with extraordinary dynamic range and sonic performance; they offer impressive power capability and headroom exclusively to where it is targeted; and allow us to maximize all the benefits of the d&b suite of applied software technologies. Plus, the ability to leverage its constant directivity control down to low frequencies, coupled with cardioid subwoofer technology and integrated flying equipment makes it extremely easy to deploy while on-field, irrespective of the kind of event we're commissioning."

The purchase of the d&b Audiotechnik gear is complemented with the addition of a comprehensive infrastruc-

ture of the **Digital 6000 Wireless System** from Sennheiser (which includes multiple wireless handheld transmitters, bodypacks, and Dante enabled digital wireless receivers) which joins the company's existing microphone and wireless technologies inventory; plus a sparkling new **2000 SERIES IEM System** from Sennheiser (complete with variable output IEM transmitters and Adaptive Diversity Technology enabled receiver sets) which adds to the company's existing onstage / artist monitoring service capabilities.

According to **Prem Bhoir**, CEO of PP Sound Lights Productions, the inclusion of the Sennheiser Digital 6000 wireless system and the 2000 series IEM system has now empowered the company to efficiently reinforce multiple music gigs simultaneously – a facet that's become more of a necessity for the company since the past few months. "Since the event market opened up in late 2021, we've been fortunate to commission several events that have hosted some of the most reputed names in music like Sonu Nigam, Shankar Mahadevan, KK, Stebin Ben, Jasleen Royal, and many more. These are world-class performers who demand and deserve nothing less than the very best – and for such events, it becomes extremely crucial for us to deploy nothing less than world-class wireless microphone and IEM systems. We are extremely proud that these notable artists have praised us for not just the quality of our technical

service but also the equipment that we provide – with several of the artists emphasizing that they look forward to working the next gig with us. With the inclusion of the Sennheiser Digital 6000 system and the 2000 series IEM system, we're now in a strong position to efficiently serve the needs of such world class artists across multiple events at the same time"

Prem praises the Digital 6000 wireless system for the level of versatility that it offers, while also commending the robustness and reliability factor of the 2000 series IEM system. According to him, these comprised the main reasons that prompted the company to invest into the respective systems. "The intermodulation-free HF technology of the Sennheiser Digital 6000 makes it extremely reliable even in very narrow frequency ranges, whereas the Link Density mode offers a great deal of leeway with the capacity for 5 channels in 1 MHz bandwidth. These turn out to be extremely important especially in situations where you need to assure great sound quality and wide dynamic range even in if you're in the middle of an extremely challenging RF scenario. On the other hand, the Adaptive Wireless Technology enabled 2000 series offers a great deal of artistic and technical freedom as it allows to choose from 26 frequency banks with upto 32 channels, while also offering three switchable

(Continued on page 10)

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SOUND EFFECTS BY UDAY SHAH UPDATES INVENTORY WITH ALLEN & HEATH dLIVE MIXING SOLUTION

Pune's sound rental services company – **Sound Effects by Uday Shah** – has recently invested into adding an **Allen & Heath dLive Digital Mixing System** to its existing hire stock. The company currently holds a number of digital mixing consoles, but an increase in inquiries and requirements of larger events prompted the necessity for a more expandable solution; with enhanced capabilities of broadcast integration and redundancy being some of the key factors that influenced Uday's decision-making process.

"The Allen & Heath dLive mixing system was something we needed in our rental inventory. In my personal opinion, the S5000 as a pure mixing control surface is really impressive, in terms of its capabilities as well as its look and stature. The new console has 128 inputs, 128 outputs with dante integration. This combined with massive on-board processing means the system is an ideal addition to the hire fleet. Additional Dante components have also been added to inventory allowing a more flexible, resilient and responsive approach to system design. It's a rock-solid mixer with simple drag-n-drop setup and extensive DSP and things our rental customers demand like redundant networking capabilities and hot-swappable power supplies. It for sure ticks all of the boxes with the added benefit of being rider friendly" explains **Uday Shah**, Founder and Director of Sound Effects.

As part of the rather comprehensive system purchase, Sound Effects bagged the **dLive S5000 control**



Allen & Heath dLive S5000 Digital Mixing Console

surface with **DM48 MixRack 48-input digital stagebox** and **DX168 AudioRack 16 x 8 portable DX I/O expander** for dLive systems. And the Sound Effects' team wasted no time in deploying their newly acquired Allen & Heath dLive S5000 digital mixing console, DM48 MixRack and DX168 AudioRack for a grand corporate show that featured a rather elaborate theatrical unveiling along with several musical acts performing on stage.

Speaking about the experience and representing the Sound Effects team's views about the Allen & Heath dLive system in action, Uday shares candidly,

"We purchased the system just a few days before the show, and so it gave us the opportunity to test it out in pre-production virtual soundchecks. This was a great way for our team of ace engineers to get familiar with the desk. We used multi-track recordings from a previous gig on a Dante playback. On the day of the show itself, by the time we arrived at the venue, we'd built up a reasonable mix and good confidence with the desk. 32 input channels were used, including playback at FOH. Six monitor mixes were also controlled from FOH, with all the vocal channels being 'digitally split' onto separate inputs for monitors. This

allowed us to use the desired level of compression on the main mix vocals without affecting monitors, and thereby helping us avoid issues of feedback etc. Needless to say, the show proceeded in a super smooth manner, and at the end of it all, the entire Sound Effects team – especially our mix engineers – were extremely impressed with the capabilities of the console. We can't wait to work on this magnificent dLive system on the next show!"

PP SOUND LIGHT PRODUCTIONS PVT LTD EXPANDS INVENTORY... (Continued from page 08)

RF output powers – thereby making extremely robust and reliable for the kind of demanding stage performances that we are known to commission!" exclaims Prem.


These purchases, however, aren't the end of the line for PP Sound Light Productions' plans for further investment and subsequent expansion, as both Prasad and Prem affirm their intent to add more world-class gear to

their sound inventory with the addition of a few more mixing consoles etc, while also enhancing their existing holding of lighting equipment. Prem informs, "With this year showing a steady increase in the number of live events across weddings, corporate, and music & entertainment applications; we intend to fortify our inventory with more world-class gear that will help us to create bespoke experiences for our

clients. We anticipate for there to be a steady increase in the demand for gigs like music festivals and large concerts in the months to come; and we are extremely keen to be a part of all that action. And to make sure this happens, we intend to further invest in key pieces of technologies like mixing consoles, wireless technologies, loudspeakers, and stage backline gear. Also crucial to our plan is further expanding on

our lighting inventory, which already comprises multiple units of fixtures like washes, profiles, spots, strobes, blinders, LED par-cans, LED battens, Pointy 17Rs etc. The idea is to add products and technologies that can work with our existing inventory in a variety of different permutations and combinations, and allow us to offer the same level of high-quality service for events of all scales and types"



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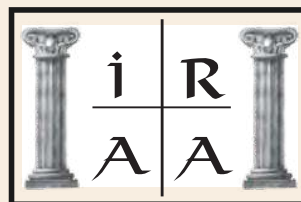
ENTIRE JURY RESIGNS FROM THE JURY PANEL FOR IRAA 2022

Indian Recording Arts Academy Awards

The notable jury of IRAA that resigned en masse from IRAA were in fact jury members from 2017. For the past five years the IRAA awards committee had the same jury comprising of the most reputed sound recording engineers and music industry professionals in India. In fact, the 12 jury members namely **Pramod Chandorkar** - Founder & Director of Soundideaz Academy and Head Technical Engineer for Sonu Nigam Live in concert, **Aditya Modi** - Director Modi Digital and Chairperson, Audio Engineering Society India (AES India), **Ashish Saksena** - owner of Purple Haze Studios and live sound engineer for Shankar-Ehsaan-Loy, **Bish-**

and Dolby Atmos Certified Mix Engineer - **Sreejesh Nair, Shantanu Hudlikar** - Eminent Recording & Mix Engineer and Formerly Chief Sound Engineer at Yash Raj Film Studios, **Yogesh Pradhan** - well-known Violinist, Bollywood Music Arranger & Music Composer, **Vijay Benegal** - Recording & Mix Engineer and Co-founder, OdBle Consultants and **Vijay Dayal** - Chief Sound Recordist at Yash Raj Studios, were easily the most outstanding music and sound recording professionals in the country, most of whom were behind the desks in the biggest and best studios in India.

It was these jury members and the honorary vice-chairman Pramod Chandorkar who from 2017 to 2021, contributed hundreds of man hours in a



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to achieve exactly what the IRAA had achieved since 2006.

Pramod noted that Anil Chopra had single handedly created the platform of IRAA to publicly felicitate the technical arts of sound and music production. He said, "Anil Chopra has envisioned the need of appreciation of the contribution by the community of audio and music producers, who should be rec-

Pramod Chandorkar announced the intention of the entire jury and himself to create an association of sound and music production professionals, tentatively named **Audio & Music Professionals Society (AMPS)**. He said, "This will provide a much-needed structure to a hitherto disorganized community, a forum for discussion and debate, a platform for the organization of seminars, conferences and the dissemination of technical information, and a collective knowledge resource for everyone in our industry. We look forward to your ongoing support and encouragement in this endeavour."

Anil Chopra responded to the motive and purpose of the Jury resignation eloquently. "There is no shadow of doubt in my mind that the community of Indian Sound Engineers is the greatest in the world. Indian Sound Engineers have created a treasure for the world in the most difficult circumstances, challenged for recording equipment and support. There is no shadow of doubt in my mind that the IRAA Jury has built IRAA to a level that an Indian Sound Engineer has so much respect for the award that he rather wins an IRAA than an Oscar. It is your collective contribution that has created this respect. The IRAA is in debt to the JURY."

That the community of Indian Sound Engineers believe such a platform of recognition must belong to the community is just and proper. IRAA wishes success to your just endeavours. IRAA indeed will continue to serve the sound engineering community with the jury blessings and will continue its campaign for royalty to sound engineers and its motto Recording is an Art."



Pramod Chandorkar and Anil Chopra

wadeep Chatterjee - multiple award winning Sound Designer and Co-founder of Orbis Studio, Eminent Music Composer/ Arranger/ Producers - **Indrajit Sharma (Tubby)** and **Jim Satya**, well know sound engineer and Co-founder of OdBle Consultants - **Mujeeb Dadarkar**, Pro Audio Application Specialist, AVID

pure dedicated fashion to complete the humongous task of assessment of all the nominations.

Pramod Chandorkar informed Anil Chopra, Founder and Chairman of IRAA on 29th June that the entire 12-member jury will resign and all of them will proceed to form the Audio & Music Professionals Society, in a serious attempt

ognized for their contribution to music and film business in India."

The Jury expressed that they have fulfilled their responsibilities with sincerity and integrity investing considerable time and effort into making the IRAA awards and making it unequivocally fair, impartial and credible for the entire community.

Visit www.ira.a.in for new 2022 Jury list



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ADAMSON DEBUTS ADAMSON FLETCHER MACHINE RENDERING PROCESSOR

Adamson Systems Engineering has announced that they are diving into the realm of 'immersive' audio with the introduction of **The Adamson Fletcher Machine**, an

audio rendering processor that offers incredibly simple operation with highly efficient spatialization tools.

An entirely new development in object-based mixing, the Adamson

Fletcher Machine utilizes amplitude and time localization, so objects are clearly perceived at their intended position, offering the listener a more direct connection with the music. The rendered signals that are sent to the loudspeakers are calculated from the objects point of view, ensuring the best spatial coherence for most listening positions.

The Stage Model is a 3U 19" rack-mount, capable of controlling either 64 or 128 inputs and outputs with the compact Traveller Model being able to handle either 32 or 64 inputs, paired with 32 outputs.

Each of these are available with hardware configurations operating in AVB/MADI or Dante audio at 48 or 96 kHz. All configurations keep latency at an amazingly low 1.33 ms.

The easy-to-use user interface is based on the digital mixing desk approach and includes a complete set of mixing tools including EQ and compression for each object, up to 4 auxiliary sends and up to 8 VCAs, loudspeaker positioning in 3 dimensions, as well as a unique, high-quality integrated reverb with a vast amount of control.

The Adamson Fletcher Machine can receive OSC and MIDI messages so it can also be controlled using external devices. As well, it can be easily interfaced with tracking systems to accurately track object movements. The remote operation software is available for either Mac or Windows operating systems.



Adamson Fletcher Machine based on the digital mixing desk approach with a complete set of mixing tools including EQ and compression.

NEUMANN.BERLIN EXPANDS ITS HEADPHONE PORTFOLIO WITH THE OPEN-BACK NDH 30

The German studio specialist **Neumann.Berlin** announced the launch of the **NDH 30 open-back headphone** in India. Following the success of the award winning NDH 20, released in 2019, the NDH 30 is a reference-class studio headphone for the most demanding mixing and mastering applications in both stereo and immersive formats. The NDH 30 reproduces the linear sound image of a Neumann loudspeaker setup, perfectly calibrated via MA 1 Automatic Monitor Alignment, in a portable format.

While the NDH 30 retains the high-quality metal construction of the closed-back NDH 20, it is way more than just an open-back version. The entire acoustic system is a new design, including optimized and perfectly positioned dynamic drivers that rival the sonic resolution of planar magnetic transducers. Harmonic distortion is extremely low and, thanks to frequency selective absorbers, the NDH 30 has a remarkably even response across the entire audio spectrum.

"We wanted to create headphones

that are totally reliable and gives you the confidence you need to make the right decisions. The NDH 30 will tell you exactly if your bass is too loud or your vocal needs de-essing," explains

Vipin Pungalía, Country Manager & Director, Professional Segment, **Sennheiser Electronics India Pvt. Ltd.** He said "The spatial resolution, too, is outstanding because the drivers are made to extremely low tolerances. And because the NDH 30 comes with an internally balanced cable, which improves channel separation."

Long-term wearing comfort is excellent, of course, thanks to large, soft earpads. For easy transportation, the NDH 30 is foldable. The NDH 30 is thus a portable alternative to a Neumann KH line loudspeaker setup, offering full sound and mix compatibility.

At the same time, the NDH 30 is a reference in its own right for headphone compatibility, which is paramount for commercial success, given today's listening habits. Its extraordinary spatial



resolution also recommends the NDH 30 for creating binaural mixes of immersive content, including gaming and VR – rapidly growing markets.

"Neumann is quickly becoming the global reference in high-quality monitoring. From Oscar-awarded blockbuster film scores to the most recent Grammy-winning 'Best Immersive Audio Album' – all mixed on Neumann monitors. Our customers have been asking for a similar reference when mixing for headphones. After all, headphones are becoming the dominant playback system among consumers – in particular for immersive sound. The NDH 30 is our answer to those demands," summarizes Neumann's CEO **Ralf Oehl**.

The list price of the NDH 30 is INR 52,900 is available at your nearest authorised Neumann partner.

Features:

- Linear sound, similar to a perfectly calibrated Neumann loudspeaker system
- High-resolution stereo panorama with precise localization
- Transparent, detailed sound image, ideal for mixing & mastering
- Excellent wearing comfort, easy to transport



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DPA DEBUTS FIRST-EVER KICK DRUM MICROPHONE

DPA presents the **4055 Kick Drum Microphone**, a specialized kick drum mic for the low-frequency, high-SPL instrument. This new addition to the DPA product lineup is a durable mic solution that is not pre-tailored to any specific sound, allowing sound engineers to shape the sound exactly as desired. The 4055 Kick Drum Mic has been tested to perform in a variety of applications—like pop, rock, jazz, folk, and other genres. It is built to withstand the rigors of life on the road and performs equally well in the studio.

The 4055 The mic offers a linear frequency response, both on- and off axis, which results in a very tight, natural, well-defined sound. The low end is punchier and dials in the right setting for the beater, while removing some of the mid-range is easier than ever before.

The shape of the DPA 4055 sets it apart from other kick drum mics. Its asymmetric design makes it easy to position when slid into any size drum

without risking a tear in the drum skin. It can also be placed both inside or outside the kick drum, so finding the ideal placement is quick and effortless. Additionally, the 4055 has a large housing and ample wind damping foam, positioned in front of the capsule behind the grille, to deal with turbulence in front of the drum holes. This is accomplished without compromising on sound pickup or quality.

"We are very excited for the creative possibilities and high-quality sound that this new kick drum microphone provides in both live and recording applications," says **René Mørch**, Product Director, DPA Microphones A/S. "While people turn to DPA for our miniature solutions, we know that they are also used to using a large kick drum mic that can handle high SPLs and dampen the inherent wind created by the movement of the drum skin. We took all this into account when designing the 4055 Kick Drum mic and working with

several engineers throughout the development, created a solution that is large, yet unobtrusive, and delivers the best sound available on the market."

This new kick drum mic exhibits the same qualities as all DPA directional mics with a flat on-axis and a very controlled, linear off-axis. The sound of the 4055 can be tailored and tweaked as necessary depending on what genre is being played. Unlike other drum mics, you can hear the differences in sound when the DPA 4055 mic is placed at various angles to the kick drum. Being a condenser mic, it is fast and produces a tight and clean sound even at very high SPL (max SPL is 164 dB). The DPA 4055 is not limited



The 4055 mic offers a linear frequency response delivers a natural and well-defined sound.

to the kick drum. It works equally well on other instruments, such as electric guitar cabinets, bass and horns. Its flat frequency response and ability to bring the uncolored sound to the next level works well on many instrument types.

EASTWEST UNVEILS NEW AGE VIRTUAL HYBRID SYNTH

EastWest, USA, has released **FORBIDDEN PLANET** - a new age virtual hybrid synth. This virtual instrument features over 600 expertly crafted morphing synths across categories such as Arpeggiator, Bass, Drones, FX, Leads, Pads, and Poly Synth. Freely morph between electronic layers, acoustic instruments, and futuristic sounds - perfect for soundtracks, EDM, hip hop and more. Featuring a brand-new suite of post-processing and mixing tools, insane filter modulation, and an extensive rack of effects, you now have the ability to break away from everything that has come

before with new controls, powered by the critically-acclaimed OPUS engine, that offer unprecedented sonic shaping power with presets completely customizable by the user.

The idea for Forbidden Planet started when producers **Doug Rogers** and **Nick Phoenix** set out to create EastWest's first fully featured synth collection, not based on traditional oscillators, but combining electronic synth layers with orchestral, world instruments, choral samples, sound effects and more into one enormous collection — creating a new sound palette designed for the future, not the past. Producers Rogers and Phoenix were dissatisfied with



Forbidden Planet virtual hybrid synth features OPUS engine

most synths, which typically had a small percentage of usable patches and a lot of filler. Now with the new OPUS engine, they had all the tools they needed to create the ultimate collection of cinematic inspiration. Everything was meticulously captured with a state of the art analog signal chain, resulting in the fattest analog synths on the planet.

Forbidden Planet includes 645 instruments, 54 GB of analog samples across categories such as Arpeggiator, Bass, Drones, FX, Leads, Pads, and Poly Synths. Perfect for EDM, soundtracks, rap, industrial, world music & more.

Forbidden Planet is sold in India only on SudeepAudio.com



NEUMANN COLLABORATES WITH B CHILL STUDIOS FOR DOLBY ATMOS STUDIO MUSIC MIX SETUP IN NEW DELHI

Extending industry professionals and audio experts a reason to cherish, **Neumann** announced the launch of the **First Neumann Dolby Atmos** for audio professionals in collaboration with **B Chill Studios** at Rajouri Garden New Delhi. India is one of the few countries worldwide to experience the Neumann demo rooms in markets like Mumbai, Bangalore, Kolkata and now in Delhi. Additional demo rooms across India will follow later this year.

B Chill Studios is a professional Recording Studio in New Delhi that offers an impressive array of production and recording services, top-class equipment, and affordable rates in a picturesque studio. Making musical dream turn into a reality, the studio covers all types of recording instruments demanded by audio enthusiasts.

Sharing his excitement on the launch of the demo room, **Vipin Pungalia**, Country Manager & Director- Sales Pro Audio at Sennheiser India said, "Neumann defines standards for microphone and audio culture since 1928. To understand that we do the same for monitoring, you need to hear the difference from what you consid-

ered "very good" up until now. We see the overwhelming interest in the industry. Monitoring is not something you can experience on a website or a tech sheet."

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

Speaking on the collaboration **Pushkar Batra**, Founder of B Chill Studios said, "I am thrilled to partner with Neumann Berlin for my studio which is professional Recording Studio enabled with Dolby Atmos Music Mixing in Delhi. The partnership is aimed at giving artists and content creators the right equipment's required to create word class music and build a community that aspires them to go above and beyond. We give a huge amount of credit to



Pushkar Batra, Founder of B Chill Studios

the quality and finesse that Neumann gears add to the sound. Our studio is professionally equipped and crafted to put artists in their comfort zone and let them create music, perform, record, mix and master music."

B chill Studio caters to a whole wide gamut of professionals, creating and delivering high end content spanning across various platforms. Being the first ones in Delhi, the Neumann experience at B chill Studios consists of a Dolby Atmos Mix Room with 7.1.4 configuration and a Stereo Setup room for Music Production, Mixing and Mastering for OTT, Films and Indie Music Artistes. The Atmos Music monitoring room has a

setup of 3 KH 310, 8 KH 120 and 1 KH 810. The stereo set up room has a setup of 2 KH 120s. The mixing room is professionally calibrated for optimum clarity and frequency response for industry standard music production, monitoring, mixing and mastering services.

Neumann has made milestone in the professional audio technology and in which users include world-famous musicians. Neumann studio monitors include solutions for all room sizes, working ranges, mounting options, networking standards and even most demanding industry specifications.

AUDIENT RELEASES NEXT-GEN ID44 (MKII)

iD44 (MKII) benefits from the addition of Audio Loop-back, so users have the ability to capture playback from multiple applications on the computer at the same time as the microphones – ideal for content creators, podcasters and streamers.

"As far as audio performance was concerned, iD44 was already fully spec'd," says **Andy Allen**,



Audient's Marketing Director. "Yet we saw an opportunity to make the best better: making a major improvement to the all-important ADC's, incorporating additional must-have features and styling it with a beautiful new smoke-grey finish. All at the same price, delivering yet more value to our customers!"

The ADC's THD+N figure sees a 9dB improvement. "That's super clean audio with less added noise and even less audible distortion. Our customers get a professional grade audio interface without breaking the bank," says Andy.

The incorporation of a dual headphone amp – including both a 1/4" jack and a mini-jack, means three sets of headphones can be plugged in at once – as well as the makeover of the unit's all-metal aesthetic, complete the key upgrades.

AUDIO-TECHNICA'S NEW CARDIOID CONDENSER MIC

Audio-Technica announced the release of AT2020USB-X cardioid condenser USB microphone. A reimagining of the popular AT2020USB+, the AT2020USB-X microphone is specially designed to meet the needs of musicians, streamers, podcasters and other content creators, offering the critically acclaimed and award-winning sound of the original AT2020 upgraded to 24-bit/96 kHz sampling rate with the convenience of plug-and-play USB-C operation.

Improvements to the AT2020USB-X include a soft-touch capacitive mute button on the body to quickly and silently mute audio at the microphone, high-resolution A/D converter with 24-bit/96 kHz sampling rate for extremely clear

and natural sound production, two-state LED indicator ring lights for when the microphone is powered on or muted, and an improved custom desk stand for a stable and secure base. The AT2020USB-X also features a built-in headphone jack with volume and mix control to let you directly monitor with no delay, as well as blend your microphone signal with computer audio. Equipped with a USB-C output and a cable with USB-C and USB-A options, this expands the microphones compatibility and makes it easier to use, now and in the future. The AT2020USB-X has a high-output internal headphone amplifier that delivers superior clarity, volume, and musical detail.

NEW AUDIO EXPERIENCE NOW STREAMING ON NETFLIX

Sennheiser AMBEO 2-Channel Spatial Audio adds exciting sound for viewers without the need for a surround system and gives full control to the re-recording mixer

Netflix and audio specialist Sennheiser have announced a massive audio improvement for all viewers that access streaming (OTT) content with standard stereo equipment: AMBEO 2-Channel Spatial Audio is now streaming on Netflix and delivers an incredibly immersive audio experience with standard stereo speakers. The AMBEO 2-Channel Spatial Audio renderer translates original immersive mixes into 2-channel audio with a spatial experience far beyond stereo. During development, Sennheiser worked with Netflix and other industry partners to fine-tune the system, which is now available to license from Sennheiser. Netflix is the first streaming platform to deliver this significantly improved experience for select titles.

Surveys among viewers have shown that OTT customers often access content with standard stereo equipment – be it on a mobile while traveling, when casually watching via a tablet, or because the home listening space does not allow for a full surround sound set-up. While in the past these viewers were unable to benefit from the growing amount of music and films produced in Dolby Atmos® or MPEG-H Audio, the AMBEO 2-Channel Spatial Audio feature has now changed this.

Netflix's Stranger Things Season 4



Stranger Things on Netflix

delivered today, be it standard TV sets, stereo systems, headphones, tablets, or laptops. Netflix is the first streaming platform to deliver this significantly improved experience: On select titles, like Season 4 of Stranger Things, Netflix has made AMBEO 2-Channel Spatial Audio the default stream for any two-channel usage. Netflix viewers watching on a stereo system will automatically receive an improved and enhanced spatial experience – no user changes required.

"Sennheiser firmly believes in the

film production. With AMBEO 2-Channel Spatial Audio, we are now taking the next step – making this new audio reality accessible to everyone."

Drawing on Sennheiser's decades of research and innovation in immersive sound, AMBEO 2-Channel Spatial Audio provides immersion far beyond what two-channel speaker systems can normally deliver, but without impacting the mix or tonal balance.

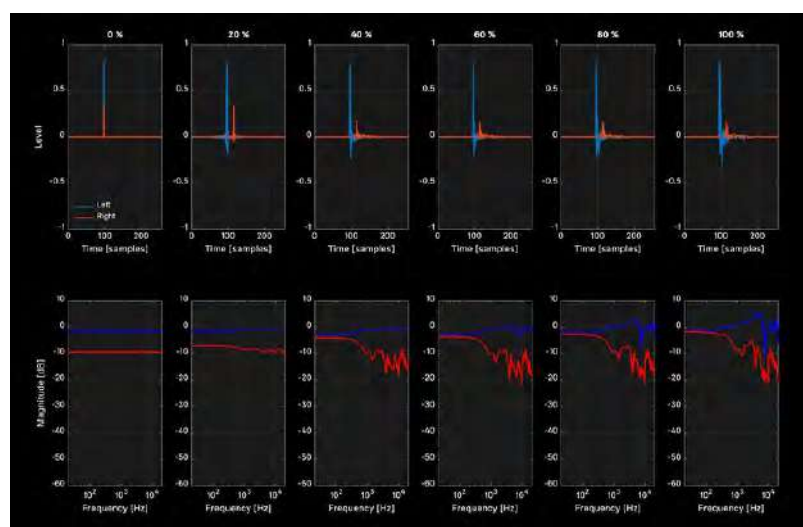
According to **Scott Kramer, Manager for Sound Technology** at Netflix, "We feel AMBEO Spatial Audio

creative intent with a remarkably clean sound."

Options for fine-tuning

"What sets Sennheiser apart from other solutions is that the AMBEO rendering respects the original mix, tonal balance and dialog integrity, which is exactly what the re-recording mixer is looking for," explains Pellegrini. "The processing is in line with Sennheiser's reputation to deliver tools that are 'transparent' and do not interfere with the original sound. In a nutshell: Sennheiser 2-Channel Spatial Audio seeks to translate mixer intent, not to overpower it."

The rendering software runs in the streaming service's cloud-based encoding pipelines and produces AMBEO 2-Channel Spatial Audio from existing ADM or IAB files, both industry-standard, open formats. It does not require another separate mix. A preview tool enables the re-recording mixer to compare stereo to AMBEO during post-production and adjust the rendering settings by stems/groups. The renderer offers patented granular control of the spatialization, ranging from full AMBEO effect to standard stereo mixdown, while specific channels can be excluded from modification. For example, dialog can be preserved 100%, or modified slightly to match neighboring immersive scenes.



From standard stereo mixdown (left) to full AMBEO effect (right): re-recording mixers can fully control and fine-tune the spatialization

benefits from new audio experience

AMBEO 2-Channel Spatial Audio is a two-channel rendering of an immersive mix that is a drop-in replacement for stereo. It provides an improved audio experience wherever stereo is


immersive future of audio," says **Dr Renato Pellegrini** of Sennheiser's AMBEO team. "Creators all over the globe have been using our tools to create outstanding immersive works, pushing the boundaries of music and

offers a meaningful improvement for Netflix members. Re-recording mixers often tell me that it better translates their detailed immersive mix work to stereo. Crucially, this process preserves the original sound mix and respects

Total loudness is preserved, too, and a music mix can be kept for left and right channels while adding the immersive AMBEO rendering to all other channels. Naturally, all signals are properly time-aligned to match the original content.



The preview tool of the AMBEO 2-Channel Spatial Audio rendering software. The Object Viewer window at the bottom right shows fixed loudspeaker positions at the edges and individual renderings as blue dots. Pale dots are elevated sound sources



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TABULA RASA NOW INFUSED WITH INVIGORATING AUDIO

Tabula Rasa stands out as a happening place for Hyderabad's music culture. Partygoers will vouch for an assured musical treat you can have here. Music is integral here just as much as food, wine, and service. In-house **DJ Hitesh Kumar** with the moniker **HKJ** draws in the crowd and has a great "rep" amongst those who frequent the

place. Artists like Dobe, Anyasa, Tash Movement, Ubbah, Moblack Records, Santiago Garcia, Mindagainst., had their gigs here and **EL TAXDI**, **Aikyam**, **Niraval**, **Infusion**, **Deccan Project**, and **Varnam** are pretty much regulars.

Shravan Juvvadi who is the founder and owner of this place has immense passion and good taste for music and

partying. That is well known amongst the regular crowd and artists so they in turn make this place absolutely "lit". With his innovative mind seeking to improve quality, Juvvadi has an eye (or ear?) for finesse in music and futuristic technology. On one of his trips to London, he laid eyes on the immaculate clean sound from audio gear at a club

and it was an instantaneous love affair with the product. In India, he reached out to consultants for the brand **d&b audiotechnik** and it wasn't hard for them to find **Ansata**, one of India's distributors for high-end professional gear.

(Continued on page 25)

INDEPENDENCE BREWING COMPANY EQUIPS MAHARASHTRA'S FIRST BIERGARTEN WITH BLUEBASS

India's premier craft brewery **IBC (Independence Brewing Company)** outlet, located in Kalyani Nagar Pune, wanted to elevate its customer experience with a comprehensive acoustic system. IBC connected with **Shaan Bhavnani** of **Elements Events Management** to install and design a state-of-the-art Audio system.

The Kalyani Nagar IBC outlet, spread over 18,000 sq. ft., is housed in a European-style Ivory Monument Mansion and is more diverse than its counterparts opened across Pune and Mumbai. The Biergarten dedicatedly serves top-notch, high-quality craft beers that are one-of-a-kind: brewed meticulously by a team of highly competent brewers with premium ingredients from all over the world.



IBC (Independence Brewing Company) outlet, located in Kalyani Nagar Pune

The venue is divided into three sections and needed fine-tuned speakers with a system that allowed zero latency and delay when clientele passed from one zone to another. Shaan designed a

comprehensive audio system to complement the architect's plan and flow of the space, with the superb sonic quality and adaptability of **BlueBass**.

The first outdoor section is powered by **four BlueBass Sabre-12 Full Range Speakers (of 400W RMS each)** and supported by an extremely responsive and powerful pair of **BlueBass Sabre-18s Subs (of 600W RMS each)**. The four full range speakers are powered by the **Sabre 804 amplifier** allowing individual volume control of each speaker enabling a perfect balance to be attained across the complex seating layout.

The central indoor section features large glass windows, immense air conditioning ducting and many other highly reflective surfaces. Using **eight Sabre-8 Full Range Speakers (of 200W RMS each)** strategically placed on opposite sides with complimenting subwoofers allowed for an even flow of music at both low and high levels minimizing any slap-backs and echoes when the venue is empty. At higher levels, the DJ can convert the entire space into a nightclub or event space.

The third and largest of the three sections is the performance outdoor section where the stage positioning for

any live performances is a central quad. Even with this design, a set of **five BlueBass Sabre-12 Full Range Speakers** with **three BlueBass Sabre-18S subwoofers** can evenly cover every corner of the area allowing for all clientele to hear each performance clearly.

The response of the Sabre 804 Amplifiers coupled with the raw power of **NX Audio N10 amplifiers** allow the total system to be perfectly tuned by a set of **DBX Venue 360 crossovers** with the sensitivity and response specifications further allowing for a zero latency across each zone controlled by a **Samson S-Zone controller**.

The Sabre Series Speakers is a line of very high power and high output Premium Lounge and Club loudspeakers designed to achieve the best performance with a compact size. The Sabre 804 is a class D power amplifier with ultra-light weight and superb watts-to-money ratio. The light weight makes the Sabre easy to move around, while meeting all your needs for professional applications with its front-end drive circuits that leverage the inherent efficiency of Class D output stages while also maintaining exemplary audio quality.

About the installation, Shaan says "I expected to spend a lot more time working out the balance between the three zones due to the different speaker sizes, however the tonal quality of the Sabre 8 and 12 are so alike, the difference was negligible and easy to match. Opting for the stable and economical BlueBass solutions has made each of my last 6 installs a whole lot easier and more efficient to work on, even with the venue speakers varying in sizes!"



Outdoor section powered by four BlueBass Sabre-12 Full Range Speakers (of 400W RMS each) and supported by a pair of BlueBass Sabre-18s Subs



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Gita Vidya Mandir Girls College, Sonapat, a well-established, reputed and multi-faculty institute is one of the prominent educational institutions in Northern India, accredited with the prestigious NAAC 'A' Grade and honoured with the title of "Potential for Excellence", invested in a state-of-the-art sound system for their newly built 720-seater Auditorium 'Indradhanush' which was inaugurated by the Chief Minister of Haryana, Sh. Manohar Lal Khattar. The project was initiated by Dr. Jyoti Juneja who was the erstwhile Principal. The project faced a hurdle due to the lockdown but was later successfully carried forward and accomplished by Dr. Renu Bhatia who took over charge

from Dr. Juneja as the new Principal of the college.

Extensively used by the students for extra-curricular activities and for hosting functions of the College. The auditorium has an advanced light and sound system that is managed by specially designated support staff. It is equipped with a large stage, two green rooms, comfortable seating, carpeting, wall paneling for acoustic effects, wash-rooms, and a podium.

According to **Dr. Renu Bhatia**, "While working on the blueprint of the auditorium, the architect and the vendor were given specific instructions to design the auditorium in such a manner as could help them install the best sound

Brands Deployed:

- Shure
- Audio Focus
- Quest
- Allen & Heath

and light system. The State-of-the-art auditorium with a seating capacity of over 720 people required a comfortable seating and modern acoustics. Curved surfaces and spade walls were preferred instead of parallel walls for better sound quality. We wanted that the vocal performances music and speech should be

loud enough for the audience to hear, including those sitting at the very back of the auditorium. Sound should neither be distorted nor echoic. the sound system installed in the auditorium with wall mounted Loudspeakers, sub woofers, processors, mixers, mics and monitors are of excellent quality. Sound absorbing acoustical panels make listening programmes in the auditorium a treat. Every penny of investment in improving the acoustics of our auditorium is worth it".

To achieve the objective of installing the best sound system, after thorough research, the college approached Delhi based Sun Infonet Private Limited, au-

STATE-OF-ART SOUND SYSTEM FOR **INDRADHANUSH**

Extensively used by the students for extra-curricular activities and for hosting functions of GVM Girls College, the newly inaugurated Indradhanush auditorium has an advanced sound system designed by Sun Infonet Pvt. Ltd.





Shure Gooseneck microphones CVG12DRS-B/C have been installed on each of the two podiums on stage.

thorised distributor of various reputed audio brands like Shure, Meyer Sound, Audio Focus, Quest Engineering and Allen & Heath.

Keeping the objective and require-

ment of the management into consideration, Sun Infonet deployed a Team of engineers from Application and Service to visit the venue and design a sound system that matches the management

expectations.

While visiting this venue, the team Sun Infonet was well prepared and focussed to provide the best and complete sound system. After the initial recce of the venue, Sun Infonet worked on the sound system design, and decided to go with Shure Microphones in combination with Allen & Heath Mixer, Audio Focus Line array and Subwoofers and Quest Audio speakers to cover the entire area.

Solution provided

To address the Audience, **two Shure Gooseneck microphones CVG12DRS-B/C** have been installed on each podium placed on either side of the stage. For best wireless audio experience, **eight Shure SLXD4 Digital Wireless System** coupled with **two Shure UA844+SWB Antenna Distribution Systems** have been installed in a Rack to use at Stage and to cover the full complete area of the auditorium through **two Shure SLXD2/SM58 & four SM35 Performance headset condenser microphone**. **Two WL185 Cardioid TQG Lavalier Microphone** have also been added in the inventory for the VIP Guests and Presenter of the Show. To avoid the interruption due to any Battery issue, **Eight SB903 Lithium-ion battery for SLX-D Wireless** coupled with **Four SBC203 Dual docking recharging station** have also been chosen.

To cover the maximum rows of the auditorium, **Six Audio Focus Ares 8a 2-way self-powered line array loudspeaker** along with **one Audio Focus B18 high performance compact 18" passive subwoofer** each have been

installed in a line array on both side of the Stage. To monitor the sound, **two Quest QM3 Two-way Active Bass Reflex Speaker** have been installed at both side of the stage and **one Audio Focus CM15A 15" self-amplified stage monitor** each at both side of the Stage on Tripod have also been installed.

Apart from the above stated gear **Four Audio Focus S18a self-powered 18" subwoofer** with one Venu 8a on each subwoofer have been installed under the stage for the front fill and best bass experience.

For Sonic experience **One Venu 12a - 2-way 12" self-amplified point source loudspeaker** each side have also been installed for the last few rows for fill. To manage all these gear, **one Allen & Heath's SQ6 - 48 channel / 36 bus digital mixer** coupled with **One DX168 96kHz portable expander** for adding remote I/O to a mixer is also installed in the Sound Room along with iPad for the remote setting. To monitor the sound quality through Mixer, **one Shure SRH240-A and One Quest QSA 200i** have also been installed in the control room.

Two Quest QSA 200i installed in the Green Room enables users and performers to hear the audio from the stage and auditorium while they wait for their turn to go on stage.

Since, the college conducts many cultural programmes which includes live performances of the Bands etc., the management decided to keep **Three SM58S Dynamic Vocal Microphone, Two Beta58A Vocal Microphone, Two SM57-LC Dynamic Instrument Microphone, One PGDRUMKIT7 Drum Microphone Kit and one SRH840A Professional Monitoring Headphone** (for the performer) in the inventory.

K. C. Pant, General Manager at Sun Infonet who has been involved in this installation since the inception comments that "For the rich experience of the audience, they have installed a best combination of the gear from the best brands which are well known for their quality of output and versatile features"

Kapil Pathak, In-charge of this facility, comments "Getting best sound system was the priority and requirement of the premises. Easy operation, best output, trouble free execution was the main objectives of the management and his work become easy, when all the gear work properly. Team Sun Infonet has made his work easy by installing products which are user-friendly and fulfils the requirement of the Auditorium and expectations of the management. Being an in-charge of this facility, he is responsible for all the functions and curricular activities".



Allen & Heath's SQ6 - 48 channel / 36 bus digital mixer coupled with One DX168 96kHz portable expander installed in the Sound Room

IRAA strikes an energetic progress path with new chief

16th IRAA focus on Indie music recording and Indian Top Pop Song 2021

K.J. Singh recording engineer of brave new-gen albums is a spirited veteran deeply involved with Indian recording arts and professionals. The entire jury of IRAA after years is now entirely fresh, newly appointed by KJ. The Jury is a healthy mix from Mumbai based and Bollywood centric sound recording engineers and from Delhi and Chandigarh and other parts of the country. Recording is an art and it is important to have jury assessment with a variety of perspective. IRAA is happy to be invested with a new and fresh Jury that will give IRAA nominations new energy and guidance for the future.

IRAA IS TAKING A BOLD NEW STEP WITH THE NEW JURY. The 16th IRAA will have India's first professional assessment of BEST POP SONG 2021. With this selection, and with the creative composition, Indian music will have a first definitive stamp of the BEST or TOP POP song evaluating both the recording art and well the creative composition and lyrics, the songwriters artistry. This selection and winner will define Indian music trend.

KJ's drive and energy is geared to take IRAA to new heights with sponsorship and preparation for a dramatic award ceremony featuring music artistes and recording artistes. Cheers!



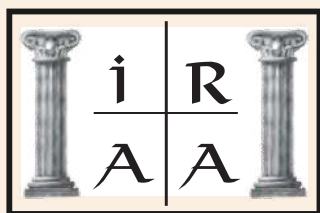
K.J. Singh sends a personal message to PALM + AV-ICN magazine

It gives me great pleasure to reconnect with IRAA, this time as its Vice Chairperson. I would like to start by extending a heartfelt thanks to **Anil Chopra** for trusting me with this task.

As IRAA enters its 16th year, I wanted to take a step back to try and understand it in context to the music created and consumed in India. The nation has a rich legacy of aural tradi-



KJ with the Nightingale of India, late Lata Mangeshkar ji



INDIAN RECORDING ARTS ACADEMY AWARDS

tion that begins with folk and classical traditions. Filtered through the lens of cinema to become their own sound, they gave us film music. Aside from these another major presence has been in the devotional space. Right now we have genres and sub genres of every sort pouring out of every corner of the nation, in multiple languages. In short, music in some shape or form is an inescapable part of the Indian experience.

The question I want to ask is, with such a storied history and involvement of music in our lives, why do we have so few international artists among us? Is my question too early or too late?

By no means do I mean to disregard the great efforts of our classical

stalwarts who have taken India across borders and culture. The same for Grammy winning Composers like AR Rahman and Ricky Kej. They have all done exemplary work. My question is - why aren't there more of them by now? Why isn't there a contemporary Indian artist that can command a fan following across nations and sell out stadiums? Because if they aren't there yet, I feel like this is the time to create or find one and promote them.

We possess the same tools used by the greatest in the music game. Technology has, at least, levelled that playing field. Now the recent successes outside of the English language of K-Pop groups and Latin artists is



KJ with late H. Sridhar (L) and Aditya Modi and S Sivakumar

another added proof that language has become less of a barrier. Today it's possible to collaborate with any artist/musician, in the world, all without leaving the comfort of your easy-chair and company of your favourite cat.

That is why at IRAA, we plan to now be looking into aspects of education and mentorship. It puts the onus onto

us as lyricist, composer, singer, musician, producer and engineer to bring forward the best that we can. IRAA will be here to recognize, support and encourage you to do better than the best.

I look forward to the day the music we create and appreciate here with the support of IRAA becomes an international sound.

Go to page 62-63 for List of new IRAA 2022 Jury

TABULA RASA NOW INFUSED WITH INVIGORATING...

(Continued from page 20)

At Ansata, it wasn't difficult for Juvvadi or his System integrator, **Audio Wizard** to decide what works best for the brand Tabula Rasa. High-end products deserve high-end technical

solutions and Ansata has that. After a thorough audit, experts could make the best-suited solutions. The lot falls for the V10P high-performance 3-way passive point source loudspeaker. Now every-

one at the club can listen to the vocals of a pop song or live artist in pristine clarity. Of course, it's a club and it's not just partials and overtones that people want to hear but also a beefy bass too.

B6 subwoofers from d&b audiotechnik carry an entrancing low-end punch in the club now. To make the image in the space fuller, E6 and E8 loudspeakers are used as out-fills and delays. To generate

enough power to drive all the output, our beastly **10D and D20 Amplifiers** from d&b audiotechnik were coupled into the setup.

Audio wizard, an Audio visual equipment supplier in Hyderabad, Telangana did the installation under supervision from Ansata. Appreciation from guests and artists has already started pouring in and Juvvadi now can be relieved knowing he has the best. He stated "I have been searching for a sound system that is of international quality and we found it in d&b audiotechnik. All the musicians and the sound engineers are extremely happy to perform at Tabula Rasa. There is a huge appreciation from all my customers."



Tabula Rasa boasts of an all d&b audiotechnik inventory comprising V10P 3-way passive point source loudspeaker, B6 subwoofers, E6 and E8 loudspeakers for out-fills and delays and 10D and D20 Amplifiers

Audio Install

HIGH QUALITY ATTENDANCE AT **PALM & AV-ICN EXPO 2022** POINTS TOWARDS STRONG MARKET REVIVAL

*The professional sound, professional display, professional lighting and integration market of importers, distributors, dealers and actual users congregated in full strength at the Bombay Exhibition Centre Grounds in Mumbai, India to witness the largest display of product range from top global brands, sourcing millions of dollars inventory for distribution and rental. It says a lot about the **PALM AV-ICN Expo Mumbai**, when hordes of visitors swamp the registration halls across the three days of the show, a clear indication that the expo has evolved into a much awaited and pivotal event which is “not to be missed”.*



Destination for Professionals & Buyers

After a gap of two years, when the 20th edition of the PALM AV-ICN expo, held **May 26 – May 28, 2022**, welcomed the pro audio, lighting, and audiovisual industry to reconnect and stimulate the market towards a recovery path, the attendee count clocked an official figure of

Unique

20,228

registered attendees. Total footfall across the three days touched **26,466**.

“We are happy to be here at PALM, after two years. In the last two years, this is the first time we got to showcase our products



to the customers. It has been a great experience for us to meet our customers with whom we have been only communicating on phone calls till now. Our customers for the first time were able to touch and feel the products. The footfall normally on the first day is a little less, but this year it has been great from day one. We met a lot of people from South, North and North-east India too," says **Nitesh Narayan**, Sales Manager of StageMix.

"Thanks to PALM we can meet our friends in the industry. Our industry has taken a massive hit - companies don't have budgets and money to buy equipment; lots of companies are struggling and it's going to take some more time for things to get back to normal, but I'm confident that the industry will regain its former glory," said industry veteran and Proprietor - Electrocraft | Roger Drego Theatre Management | Star Professional Audio, **Roger Drego**.

"PALM is a great melting point for people who come here to learn, network, learn about new products, study about new technology, interact with dealer, distributors, manufacturers and also just to meet friends and colleagues," says **Warren D'souza**,



Founder & Managing Director - SOUND.COM. "It has been nearly two and a half years with no show and since then everybody is rearing to go. This is the show that everybody comes to, from the pro-audio to the pro-lighting and pro-video industry."

"The return of PALM Expo is a strong indication of come back from our industry after a pause of two years. There is a lot of business for our customers in the market. Industry professionals are looking at it in a very opportunistic way and all are now coming back with great enthusiasm. We received quite a nice feedback for ClayPaky products, and we are supporting our customers with products at competitive pricing with the help of our distributor - Hi Tech Audio and Image," said **Pankil Ahuja**, Sales Manager for India and Sub-continent, Clay Paky.

"We get vast exposure to a new type of customer base. This year has been a tremendous success for PALM and obtaining this type of response from customers after covid is surprising," said **Ankit Gupta**, Director - AERONS India Exim Pvt. Ltd. "Every year, the quality of the crowd keeps getting better and better. This year's customer response was very good. PALM provides us the platform to present ourselves in the market. Overall, the industry is growing, the market is good, and the show was a success."

"PALM expo 2022, has been a remarkable show. It is end of day two and we are already overwhelmed with the response. I'm quite excited and concerned for Saturday, which is a weekend; I'm sure the numbers are really going to be big. We have been closed for covid but now the industry is coming back with a vengeance, and it has been a fabulous turn out at the show. I think nobody expected this kind of turnout, and I'm glad we are here, and we look forwards to PALM 2023," says **Rashesh Parekh** of Integrated Entertainment Solutions. "We have launched new products like the latest **Avolites D92 console**, the **RDM Nebulas** from Madrix and lot of new products from HK Audio and Ashley."

Another happy exhibitor, **Yogesh Mehndiratta**, owner of Sound Solutions says, "It has been an amazing show this time, because everyone here has been sitting at home for a while and now, they want to break-free. So, we see a lot of foot fall here. We have been here for more than a decade, and this seems to be one of the best PALM shows that we have been in."

Trade and actual user

The attendees to the expo represented the highest level of influential professionals who are key decision-makers and whom the industry follows in choosing brand and product. Attendees represented a mix of industry professionals from project buyers seeking pro AV solutions to pro audio and pro lighting buyers, professional sound & lighting engineers, musicians & artists, AV manufacturers, design consultants, system integrators and AV consultants. India's independent full spectrum Pro AV platform witnessed the highest-level gathering of AV intelligentsia, who produce spectacular AV installations and exceptional communications experience.

"The show was great in terms of the audience who

visited. There were only serious business visitors. We had more than 4000 people visiting us at the booth on the first day. It is the best expo, and we will be continuing our support for the expo for years to come," enthuses, **Hemal Bhatt**, owner of N-Labs. "We have been participating since 2016, but this year the show was very important for business as it was taking place after a gap of two years. Visitors were looking for new products and brands. Footfall was great. Even on the last day after closing the entry, there was a queue of new visitors. This showed the visitors' trust in the exhibition. As an exhibitor, this year PALM was beneficial for us. Helped us reach new customers, especially where we didn't have our reach. We expect next year's expo to be bigger." N-Labs was also the **Lanyard Partner** for the show.



Franco Zaghini, Director of Business Development, MA Lighting Asia-Pacific shares his experience. "PALM AV-ICN 2022! we couldn't expect anything better than this; a lot of visitors and above all a lot of quality-visitors. As for MA, this was the best PALM ever, in terms of new contacts and orders. I have to congratulate all the exhibitors who decided to be there; after two years of very poor income, it was sure a great effort, and of course, a special thanks to our partner Hi-Tech Audio & Image, who in such a short time organized a nice, clean, professional booth, nicely split with the major brands they represent." MA Lighting displayed the **grandMA3** full-size console which includes 20,480 control parameters as standard, ensuring that it is the perfect base platform for the world's most prestigious entertainment lighting applications. The system size is scalable to 250,000 parameters with the use of additional grandMA3 processing units.

Summarizing the attendee profile at the expo, **Raghav Roy Kapoor**, Director, Livewire Events & Promos says, "PALM expo is the Mecca of audio-visual technology and I have been coming to PALM expo for almost a decade. PALM has grown over the years, and is not only limited to technicians or the eco-system, but it has also expanded as an arena for artists, curators, content creators, event managers and so many more people."

"We are extremely pleased with the participation as it helps us grow the brand and connect with the customers," says **Luv Malik, Director, Luxury Personified LLP**. "The footfall at the show was very high. We have been able to meet up with a whole new range of customers. Coordination from the PALM AV-ICN team has been fabulous. The industry is ever growing, and the expo plays a very, very important role in getting people to one place. I couldn't be happier to exhibit in this amazing opportunity. Way to go PALM AV-ICN!"

PALM AV-ICN 2022 proved yet again that the expo is the destination to expand distribution and evolve business to a burgeoning empowered audience who attend the expo as buyers.

"We are very happy and excited to be here and we see many from our dealer network here, it's very well organized and very well advertised and we are very happy to be displaying our products here. The footfall is really good, it's excellent, beyond expectations we were not expecting so many people. It's beyond our expectations. It's very encouraging and seems that things are getting back to normal," said **Vikram Ahuja**, Vice President of Ahuja Radios.

"The exhibition is held in high esteem as an industrial phenomenon, showcasing top-of-the-line products and a solid platform for networking, and connecting manufacturers to distributors and consumers. Happy to be associated!" added **Kush Malik, Director, Luxury Personified LLP**.



Highly defined Exhibit Display

The PALM has undergone a dramatic growth through the years making it India's only and undisputed trade show for pro audio, stage sound & light, AV install & integration and music production. PALM AV-ICN Content & Demo features, 145 pro audio, lighting, pro AV exhibitor booths by top manufacturers, distributors, and dealers, displaying over 500 brands and thousands of products incorporating every application and engineering and 11 Media Partners and Industry Associations covered **18449 Sq.m.** of area on the exhibition grounds. PALM AV-ICN's well-defined Halls of Pro Audio, Lighting and Pro AV allowed product categories to be located preferably, attracting the correct buyer.

"We've worked with PALM since the very first year, and it's been really great to see it grow exponentially with the industry. Considering it was the first show in three years, it was organized well which made it easier as an exhibitor to focus. The footfall was higher than expected but also more local, probably due to travel restrictions. It was good to see the Indian market

steadily recovering from the setbacks of Covid-19," said **Manoj Motwani of Narain Audio**.

"It's good to be back at PALM after two years. It's a successful show and I think it's



been better than ever; we've had a busier booth than always. I think it's crazy, we have had quite a few new products that we launched, and we see a whole new set of visitors coming," said **Jeff Mandot**, Director at Vardhaman Megatech Private Limited.

"It was a refreshing experience to see such an enthusiastic crowd after two years of pandemic," says **Nawal Agarwal**, Managing Director of Beta3. "The businesses picked up from the word go and I congratulate the whole expo team for beautifully organizing the event and making it a huge success. We look forward for the continued growth of the AV industry in near future." "For everyone, the covid outbreak was a learning lesson. Our industry has adapted new sales approaches for breakthrough business," explains **Nirdosh Aggarwal** of Hi-Tech Audio & Image. He continues, "PALM Expo was a good opportunity for us to re-introduce our brands and showcase our presence. Thanks to our brand partners, associates and clients for making the expo a grand success."



Offering Total Solutions; Delivering Business

The Indian market has proved beyond doubt the affordability and consumption of the marketplace for the highest quality price paradigm. The market is growing exponentially, with investment in video display, install sound, recording sound, rental sound, stage sound, surround sound, soundtrack, post-production, and music production and the PALM AV-ICN expo 2022 offered total solutions, delivering business to the exhibitors.

HARMAN Professional Solutions, the global leader in audio, video, lighting and control technologies, showcased the newly launched **JBL SRX900** Series of powered products. The family, which includes dual 6.5-inch and dual 10-inch powered line array elements and 18-inch and dual 18-inch powered subwoofers, is ideal for rental companies, fixed installations and musicians seeking the ultimate combination of performance and portability.

"We are overjoyed to be back with a physical showcase at PALM AV-ICN expo after two long years. And to top it all, it is even more exciting to showcase the newly launched JBL SRX900 Series. JBL's 75 years of legacy and performance excellence propels us towards creating more versatile and intuitive systems, and achieve customer delight," said **Amar Subash**, Vice President and General Manager, Asia Pacific at HARMAN Professional Solutions.

The SRX900 Series' outstanding performance is based on time-tested JBL technologies: Custom-engineered and manufactured, high-power-handling transducers deliver superior fidelity and class-leading output. Precision waveguides provide accurate pattern control for intelligibility and definition that are unmatched in this category. User-configurable DSP and design-and-management software tools provide hands-on control from a computer or mobile device, making design, deployment and control a breeze. SRX900's cabinet architecture is thoughtfully engineered for easy handling, fast rigging, minimal space displacement and streamlined transport.

True to its commitment, **Sennheiser India** showcased the best of audio solutions at the expo designed to provide an immersive experience and connect audiophiles, musicians, DJ's, content creators, broadcasters, and other professionals to the future of audio. The Sennheiser booth had a **Nuemann experience zone** for attendees to personally experience and gain deeper insights on some flagship monitors and microphones. Additionally, to leverage the platform the brand showcased their new product, **Miniature Clip Microphone (MCM)** from the Nuemann family. The MCM is intended be a go-to close mic in live sound, broadcast, and recording applications, whether capturing a solo piano, spot miking an orchestra, or anything in-between.



Also on display were premium products from the Sennheiser family like **Digital 6000, 2000- IEM, EWD (evolution wireless digital), wired microphones, evolution G4 series, Pro headphones, Sennheiser audio for video.**

Mr. Vipin Pungalia, Country Manager & Director- Sales Pro Audio at Sennheiser India, said, "We at Sennheiser have always been committed in delivering and introducing audio professional products for our stakeholders. The main objective is to evolve as per the industry needs to make life seamless for our audio professionals, enable them to capture the best of audio and video content. We are excited to be back with offline events after pandemic which is almost 3 years. PALM AV-ICN Expo is a great platform to showcase our products as the industry comes together under one roof with technologies that shape the present and future of Indian audio. Additionally the platform gives us an opportunity. The platform has helped us secure tremendous business and make fruitful connections for a long run."

AHUJA RADIOS, India's leading manufacturer & exporter of Public Address Equipment was back displaying a whole range of products on their front row booth. "We started back in 1940, and if you have a look at our stand, we have so many products - around 400 product range and the objective is that anything that is required for public address for pro audio should be available from Ahuja. Ahuja should be one-stop stall for all professional audio products," said **Sandeep Ahuja**, Sr. Vice President of Ahuja Radios. "Talking about new products- we have introduced many products with combos some with trolleys and some with easy carry with handles. There is also a move to make more and more products with the 'Atmanirbhar concept'. We have now introduced the sound lectern system **ASL 3000** on our booth. It has a podium microphone, a light and a charging unit for mobile phones. It also has two wireless microphones. We have on display the complete product range required in a small auditorium, we have amplifiers and court room systems. We have got specially designed microphones which work on fathoms supply. Lots of courts around the country are being installed with these systems."

"After the gap of two plus years, the expo provided opportunities to meet with Industry experts, musicians, new players and stakeholders as well as to showcase the latest audio solutions that we had missed during the pandemic period," said **Neeraj Chandra**, Director, Sun Infonet Pvt. Ltd.



On display at the Sun Infonet booth was the **Shure Stem Ecosystem** for board rooms to training rooms to huddles and every type of conference room and the **Shure KSM11** wireless vocal microphone capsule which redefines vocal performance by providing a prized combination of full lows, clear mids and high-end detail, without the need for extensive EQ. A cardioid condenser designed specifically for live performance, event recording and premium streaming, the KSM11 allows digital wireless systems to present strong live vocals. Also showcased at the booth besides other products was the Allen & Heath **Avantis and AHM32**. The third mixer based on 96kHz XCVI FPGA engine, Avantis puts next-generation technology in a 64 channel / 42 configurable bus console, with dual Full HD touchscreens, a super-flexible workflow with Continuity UI, extensive I/O options, add-on processing from our flagship dLive mixing system, and a rugged full metal chassis. With 32 zone outputs, echo cancelling and audio networking options, AHM-32 is ideal for multi-room installations in hospitality, corporate and education environments.

On display at the Beta3 booth was the **DT series** of professional touring amplifiers, designed with the goal of achieving unmatched performance and outstanding reliability. The DT series is available in eight different models with various channels and power alternatives, each comprises of efficient zero-temperature-difference temperature



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Thump212
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control, functional limiter designed for low distortion, and complemented by precise detection and protection control. Also on display was the **SLA12H 3-Way Full Range Speaker** and the **VX12a 12" Two-Way Full-Range Active Speaker**. The Beta Three® SLA-12H Series is a high SPL line array speaker used in applications including sound reinforcement for Houses of Worship, Events, Indoor Stadiums, Theme Parks, Multifunctional Auditoriums, Schools, and Transit Terminals etc. These are excellent for live, rental, and portable sound reinforcement applications. The SLA Series line array loudspeaker delivers extraordinary performance where high SPL, high speech intelligibility and natural sounding music is required at unmatched value. The VX12a is a two-way full-range active speaker composed of a 12" LF woofer and a 1" HF compression driver with Titanium diaphragm. Its characteristics include big dynamic, high sensitivity, clear MF and HF with powerful LF. VX12a adopts the design of combining the horn with the cabinet, with rigging points surrounding the cabinet, and there are mounting holes at the bottom of the cabinet to facilitate the formation of an array. Standard hosting structure and 2-way XLR/TRS input mode ensures ease of use and simple installation.

Audible Avenue displayed the **AA Series** at the Aerons booth, which was the first in their line of commercial installation solutions. With the series comprising three discreet multi-purpose loudspeakers i.e. the AA 3M, the AA 6F, and the AA 8M, along with the ultra-compact AA B10 subwoofer; Audible Avenue's AA Series has been designed to seamlessly fit into any room and blend in with any style of décor with minimal visual intrusion while assuring a wide dispersion pattern and full range frequency response. On display amongst others included leading transducers from **FaitalPRO** and **the Audiocenter K-LA210**, a passive crossover line array speaker, for touring, rental, and fixed installation.

Clay Paky showcased the **Xtylos** compact beam moving light, the **Arolla Profile MP**, which is the smallest and lightest moving head fixture available in its class, and the **Sharpy X** Frame from the family of the award-winning SHARPY fixtures.

"Meeting partners who are patrons of Clay Paky and whom we personally know for more than 25 years now, was very exciting. Certainly, market is improving in terms of shows, events etc. and more and more international events have started coming to India – which is a good sign as these international events are driven only on specified lighting equipment and Clay Paky is really strong in it. The expo was indeed the apt place to meet new customers and support them with our products," says Sales Director of Clay Paky, **Alberico Emilio D'Amato**.

Another latest edition at the show was from Digico. Attendees to the expo witnessed the new **Quantum 338**, representing a dramatic leap forward in power and connectivity within a remarkably compact format. Digico's VP of Sales, **Ian Staddon** says, "The popularity of SD series from Digico is incredible and now with Quantum 338, we are geared up to take the game to the next level. Thanks to Rajan Gupta, Nirdosh Aggarwal and their equally dedicated team, Digico has carved its own league among Indian audio engineers, Bollywood artists and rental companies."

The Quantum 338 follows the Quantum 7 in defining the future of audio mixing. Boasting a wealth of new design features and enhancements to create ultimate flexibility of use plus the speed of operation, Quantum 338 is based on seventh generation FPGAs with an entirely new system architecture.

The expo was also the apt platform to introduce the full-range **K3 series** from L-Acoustics designed to deliver big sound for events with audiences ranging from 1,000 to 10,000. "It's always a great experience to attend PALM Expo", shares **Peter Owen**, Sales Manager, L-Acoustics. "Our authorized distributor Hi-Tech Audio & Image has been pro-active to promote L-Acoustics across the country. The unveiling of K3 at their booth was really a moment to cherish. We hope to start a new era for event industry with K3 series for India."

Part of the K Series, K3 is a full range line source element designed for mid-sized mobile applications. Housing K2 components, K3 delivers exceptional bandwidth with reinforced LF contour for its size and high output capacity for use as a stand-alone line source. Designed as a two-way active loudspeaker, K3 requires two channels of amplification resulting in high density of loudspeaker per amplified controller. K3 features Panflex to increase flexibility.



"We are so overwhelmed by the response in our booth. It was a milestone year for us as for the first time in India, we have introduced **DiGiCo Quantum338** and compact full-range **K3 line source system** from L-Acoustics. Beside these we have showcased the Business Music Solution range from RCF along with the brand's **NX900 and ART900** series. Moreover, we have also dedicated separate light areas in our booth to give live demo of Clay Paky products and grandMA3 consoles respectively", shares **Rajan Gupta**, of Hi-Tech Audio & Image. With the support of brand partners, Hi-Tech Audio & Image was able to accomplish its business goal in the expo.

Also, on display at the Hi-Tech Audio & Image booth was the **RCF BUSINESS MUSIC** range offering a complete range of products to design audio systems for background and foreground music in public spaces, the **RCF NX 9** series for solo musicians, bands, and DJs, and the **RCF ART 9 Series** for professional applications—on the road, on the stage, and is also suitable for fixed installation.

Nx Audio continued to expand its MT series power amplifier line-up with two new models **MT1801 and MT2201 Amplifier**. The MT2201 is a class D amplifier using pulse width modulation to rapidly switch the output devices between off and on states at a switching rate of 50MHz. D Class uses less heat sinking and is usually lighter than other amplifiers, though the MT2201 uses the same rugged chassis as its siblings MT1901. The MT2201 uses extensive protection circuitry and advanced technology to ensure RF/EMI rejection with an LF filter. Narain Audio also launched the **BlueBass Blade-15 and XB-21**. The BlueBass Blade-15 represents the best-in-class loudspeaker for today's demanding audio professionals, using a cutting edge 32bit DSP & 48dB/Oct crossover to deliver superb acoustic fidelity across its frequency range. Class D LF Amplification ensures superb Efficiency with a lightweight portable design making it excellent for both Live and DJ. The **XB21** features a nano fibre loaded cone assembly, sandwich suspension damper along with optimum excursion constant geometry surround with high Conex fabric and 4-layer Copper 2:2 windings technique VC together provide remarkable strength. Also on display at the booth was the **Lavoce 21" SAN215.30 and SAF214.50**.



SK Pyro introduced new products from **Showven and DJpower**. "Our special product for this year is smoke bubble machine. We have participated in PALM expo for the first time, and it's an amazing experience. We have had very good footfall from the last two days," said **Sonu Khiani** of SK Pyro.

LD Systems displayed a wide range of products at the Adamson booth, including whole range of installations products, modular line array curve series, column speaker systems for the rental and installation markets. "We also have a complete range of installation stands, and some more unique products that can be used in studios and by individual musicians. We have a range of DI boxes and accessories as well as some studio monitor controllers from **Palmer**. We have also launched the **Kansas light controller**," informs Nitesh Narayan of StageMix.

"The new products we are selling are audio over internet, like UNIKA's Dante's products for instance. We have more weatherproof equipment on the show and also tour grade, microphone stands and speaker stands are available," said

Karan Nagpal, Director of Sonotone Audio LLP. "Footfall has been great, and in line with our expectation. It's the only platform in India, where we get to interact with so many customers together; professionals living not only in the city but also living in the interior villages as well."

Luxury Personified LLP conceptualized an acoustically treated booth to display their brand portfolio of world-class exclusive luxury brands. On display was the **Devialet PHANTOM II CUSTOM**, which is tailored to custom commercial and residential projects. The Phantom II Custom boasts professional features such as



Dante™ network and analog/AES input, is fully compliant with technical integrator requirements, simply configurable through IP address webpages and guarantees unrivaled sound and total reliability, coupled with eye-catching design.

Alphatech the exclusive distributor for multiple audiovisual (some of them being very iconic brands) like, Genelec, API, Tannoy, Labgruppenn, Klark Teknik, Midas, Berhinger, etc. displayed a lot of technologies, and products from all their brands. "This time around at PALM. We have a special effect processor from **Outboard**, and we have also launched a few new products like **Midas HD 96** digital mixing console, and **Turbo Sound Manchester** Line array speakers. Alphatech has also put up a dedicated home theater room, with the **Genelec** and **Christie** 4k Pure RGB Laser technology," said **Mayank Gaurav** - Director Sales, Alphatech Audio Video Pvt. Ltd. "From footfall perspective, we have missed PALM from the last four years. We participated in 2018 and after that we are participating this time around. We can see big queues outside the venue, and people are waiting from eight in the morning to come inside the hall. it's a very good and positive thing which we are seeing this year. We have received a very good response for the product line. PALM is a very established and very important show for any distributor or OEM who's in Pro-AV industry."

A-Pro Lighting displayed new led range pars, sharpies, led lights as well as smoke machines at their booth in the lighting hall. "This year the expo had an excellent footfall and we are overwhelmed with the response," said **Raj Malhotra** of A- Pro Lighting.

China Pavilion

PALM remote exhibit solution gave an opportunity to China manufacturers to be present at the 20th PALM expo. Attendees connected directly with China manufacturer team via mobile and discussed with Indian buyer their product interest and other business queries. The display played videos of product giving attendees and buyers the complete experience and benefit of sourcing at the expo.

China Pavilion had a total of **31 exhibitors** representing all the product categories at the PALM expo.

China imports were considerably reduced in 2020-2021 due to shortage on factory closures in China. Imports were impacted due to travel restrictions and cargo restrictions. China market depends on distributors in India and supply situation adversely affecting the pro audio and lighting market for China brand and product. Indeed supply and market recouped to quite some extent in 2022. China Pavilion was a reflection of the beginning of a turn around.



THANK YOU PALM & AV-ICN EXPO 2022 EXHIBITORS AND SPONSORS!

For your overwhelming trust in us and valuable contributions to the expo

Your vigor, passion, and support were crucial to produce a successful expo in these uncertain times. We have received positive feedback from attendees and exhibitors alike. Our success was in no small part due to you.

WE LOOK FORWARD TO SEE YOU AGAIN NEXT YEAR!

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Array Demo

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Lighting Design
Showcase

FOR PARTICIPATION, CONTACT:

ramesh.chetwani@hyve.group

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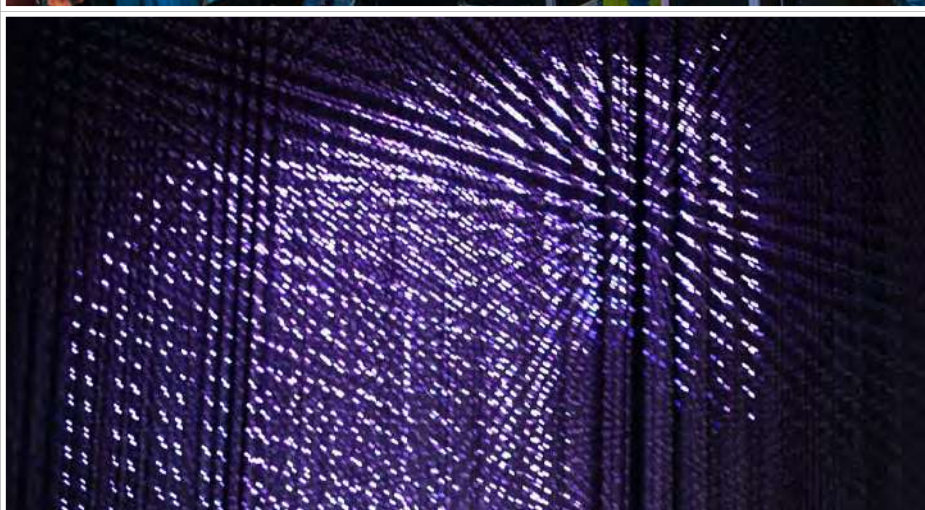


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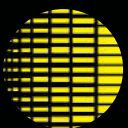
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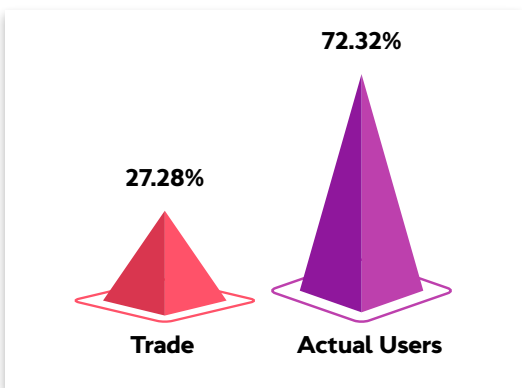
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Attendees to PALM & AV-ICN Expo 2022

PALM AV-ICN 2022 proved to be far busier and well attended than expected. Who exactly attends and exhibits at India's foremost audio, lighting, and audiovisual technology expo? This detailed breakdown of the attendee figures from PALM AV-ICN 2022 gives deep insight and sharp understanding of the market dynamics and the mix of professionals and well-defined target audience who attended the show to source their audio, lighting and audiovisual requirements.

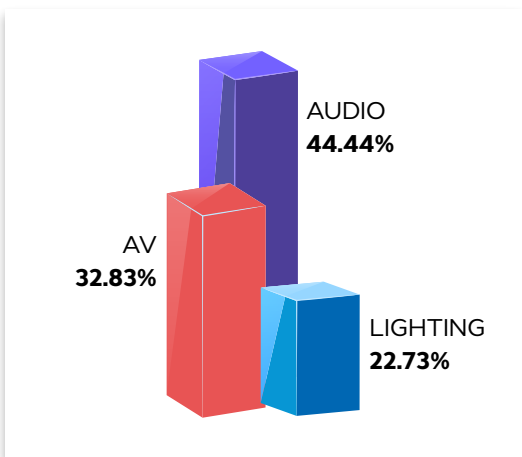
PALM & AV-ICN 2022 BUYERS & SELLERS WHO ATTENDED



Actual Users comprised professionals from Educational Institutes; Government Organisations; House Of Worship; Hospitality (Clubs / Pubs / Discos / Lounge Bars / Restaurants); Multiplexes / Cinema Theatre / Home Theatre / Auditoriums; Other Venues (Malls, Commercial, Retail, Theme Park); Rental Companies; Studios (Recording / Post Production), Media & Advertising, corporates, communications / telecommunication, Event Management Company, Finance & Banking, Healthcare.

Trade comprised of Manufacturers; Distributors & Dealers; Systems Integrators; AV Consultants.

PALM & AV-ICN 2022 PROFESSIONALS WHO ATTENDED

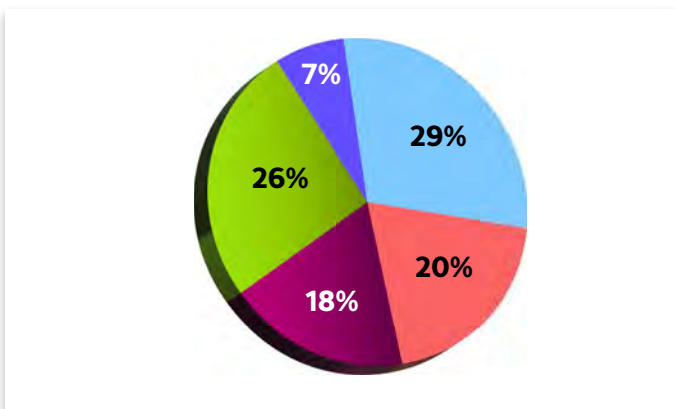


AUDIO: Professional Sound Engineers, Manufacturers, Rental/Staging Contractors, Purchase Managers, Professionals (Musicians / Artists), DJs, Recording Engineers, Production Managers, Senior Management, Manufacturer Representative (Distributors, Dealers), etc.

LIGHTING: Professional Lighting Engineers, Manufacturers, Rental/Staging Contractors, Purchase Managers, Production Managers, Senior Management, Manufacturer Representative (Distributors, Dealers), etc.

AV: AV Consultants, Manufacturers, Purchase Managers, Systems Integrators, Senior Management, Project / Design Consultants, Mapping Professionals.

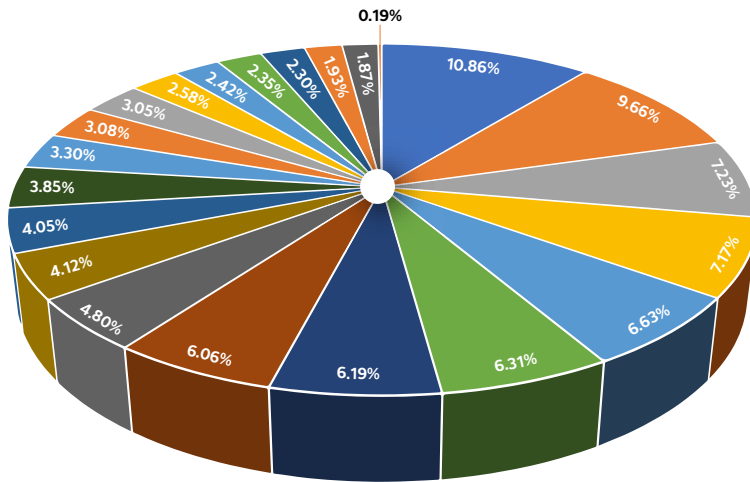
PALM & AV-ICN 2022 EXHIBITORS PRODUCT PROFILE



Number of Exhibitors for each segment across all halls of PALM AV-ICN

Stage Sound	63 (29%)
AV	44 (20%)
Lighting	39 (18%)
Install Sound	57 (26%)
Studio and Audio Production	16 (7%)

PRODUCTS / TECHNOLOGIES OF ATTENDEE INTEREST



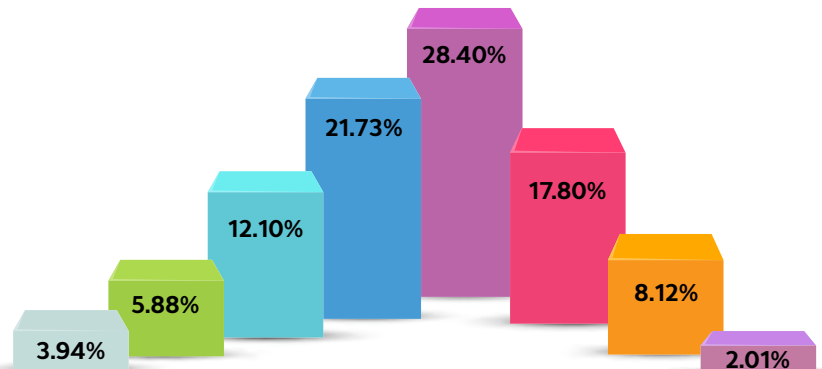
MAIN PRODUCT INTEREST

	%
Amplifier	10.86%
DJ Equipment	9.66%
LED	7.23%
Loudspeaker	7.17%
Console	6.63%
Stage Lighting	6.31%
Lighting Control	6.19%
PA Systems	6.06%
Microphone	4.80%
Special Effects & Laser Technology	4.12%
Stage Technology & Truss Systems	4.05%
Software	3.85%
Display & Monitors	3.30%
Conference Systems	3.08%
Part & Accessories	3.05%
Broadcasting Equipment	2.58%
Projection	2.42%
Digital Cinema	2.35%
Networking	2.30%
IT Solutions	1.93%
Digital Signages	1.87%
Others	0.19%

PURPOSE OF VISIT

PURPOSE OF VISIT

	%
New Products & Technology	28.40%
Purchase & Orders	21.73%
Connect with the Trade	17.80%
Looking for Business Expansion	12.10%
Networking	8.12%
Evaluate Show for Future Participation	5.88%
Seeking Representation Tie-up	3.94%
Others	2.01%



PALM & AV-ICN Expo Highlight Features

The PALM and AV-ICN expo highlights and features provide vitality and growth. The expo also showcased three spectacular highlight features on the show floor:

Lighting Design Showcase

The lighting design showcase, in its fourth consecutive year, was once again curated and conceptualized by **Ulhas Sahasrabuddhe** and his team at **SSL Media Technology & Solutions Pvt. Ltd.** SSL created a light design with the help of pixel paddle Mi bar along with a LED screen and moving light fixtures to give a unique feeling and experience. "This kind of design has never be built, its a unique design which will help the industry to learn more and use and create the concept for their future events," said Ulhas.

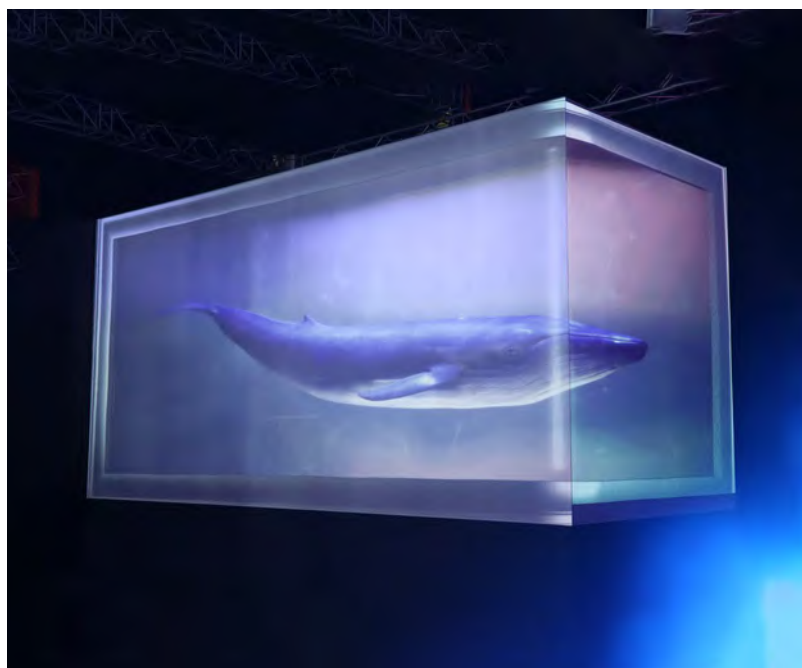


3D Immersive Projection & Mapping

PALM AV-ICN once again brought to visitors an immersive experience like no other. With creative cutting-edge content and new age techniques of video mapping, **Modern Stage Service Pvt. Ltd.**, curated and conceptualized this feature and presented the perfect amalgamation of Innovation, Technology and Creativity. This feature showcased Anamorphic display and a spherical projection surface creating 3D illusions using projection. These surfaces were used for creating mind boggling 3D visuals. "It's a pure amalgamation of art and technology, which is revolutionizing the digital signage/outdoor advertising and events industry. Distorted perspective display gives a visual shock and creates a wow/engaging experience for viewers when they see visual objects coming out in 3D projected on a flat surface. All this looks very futuristic. It's been used for product launches and as a hook for consumer engagement," said **Davinder Wadhwa**, Managing Director of Modern Stage Services Pvt. Ltd.

Intelligent Lighting Projection

In its debut year the Intelligent Lighting Projection demo area of PALM AV-ICN curated by Hi-Tech Audio and Image, unveiled zacktrack and Stops & Mops which was an innovative Automated Follow System for open-air events, theatre stages and TV-studios. The product zacktrack SMART presents the first "Plug & Play" tracking solution for the entertainment industry. "Any number of performers can be radio-tracked in real-time. zacktrack precisely aligns moving lights, video projections, cameras and 3D sound to the position of an actor," said **Rajan Gupta** of **Hi-Tech Audio & Image**. **Alan Roh** from MA Lighting conducted exclusive demo session of zacktrack. Another addition to Hi-Tech Audio & Images offering in this area was the recently launched Desk Dough® Beam from Stops & Mops, the first of its kind 100% digital lighting fixture, which turns any digital projector into a stunning beam machine. The showcase of these products attracted many visitors to witness the awe-inspiring result.





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PALM AV-ICN Conference & Seminar

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From l-r: Prashant Govindan, Kapil Thirwani, Claron D'souza and Abdul Waheed discuss "QUALITY PARADIGM OF MEGA SCALE AV PROJECTS"

Curated by PALM AV-ICN magazine, the PALM Conference & Seminar was the optimum learning and networking platform for attendees wherein the best talent and top-notch professionals from the country, shared their expertise, skills and knowledge on technology and industry trends through a range of topics covering pro audio, professional lighting and pro AV

The Conference opened on May 26th with an introductory keynote from **Anil Chopra**, Founding Director of PALM expo. "Demand and consumption are the two keynote factors I wish to impress upon. Innovation and quality are not the prerogative of established brands and manufacturers," said Chopra in his keynote address. "Markets determine product design and features, not manufacturers and factories. India possesses markets and demand, consumption, innovation, and brand power are automatic; the key lies in setting up factories and production. This is the keynote for the PALM AV-ICN Expo 2022. The pieces of the puzzle have fallen in place, it has indeed been a journey of great aspiration and almost as one man the enthusiasm and mojo of PALM addicts has resulted in manifesting the opportunity, we all sought – the opportunity of creating brand power and beauty of tantalizing product design and technology that is at the cutting-edge," he added.

Dedicated Live Sound tracks spur business friendly ideas

With India's top live sound professionals at the PALM Conference & Seminar, attendees had the opportunity to connect with these top thought leaders through various informative sessions conceptualized to spur new business ideas, as well as educate new entrants in the live sound industry and prepare them for a successful career.

Roger Drego, Rental Industry veteran and Managing Director of Electrocraft – one of India's premier rental companies, educated attendees on how to deliver Sound Reinforcement for events which cater to lakhs of people and cover thousands of sq. mts.

An insightful session on Monitor Mixing by well-known and respected Live Sound engineer **Ashish Saksena**, attracted a full house. This session educated attendees on all aspects of monitor mixing like positioning microphones, sound-check, tuning stage monitors and much more.

Audio engineer with an industry experience spanning over 35 years - **Dwayne Das**, core competence is his keen ear for a balance of sound - right from an untuned instrument to a dead speaker in a 16-box array and this was evident as he shared his knowledge of Systems Engineering for the Big Stage

which he has acquired over so many years. "I did not expect so many people to show up at the conference. I hope they have learnt from what I had to say. I did not expect a single question during Q&A but and I was pleasantly surprised to take so many questions and that was interesting. It's a good learning experience," said Das.

Studio technology and the future of Surround Sound

Respected studio engineer and Avid Dolby Certified Audio Application Specialist - **Sreejesh Nair**, addressed another packed session on Dolby Atmos and its techniques in mixing Music and Post. It covered a quick fundamental of the technology and how to use it in mixing and delivering a mix. "Here at the PALM Conference, I presented a session on Dolby Atmos for music, basically focusing on immersive audio - how do you listen to stuff in binaural audio, master it and tips on things you should look at and ideas for better recording and mastering," said Nair. "There is a





Anil Chopra



Roger Drego



Ashish Saksena



Warren Dsouza



Raghav Roy Kapur



Nazeef Mohammed



Deepak Pawar



Harshal Kothari



Dwayne Das



Sreejesh Nair

lot of footfall at the expo, lot of active enquiry and demos and many questions from the Conference attendees. We are getting back to where we were and the expo is helping the industry in a major way," he added.

With the popularity of Dolby Atmos and the recent momentum of Atmos Music and Dolby Atmos for Home Entertainment (HE), and more and more content being mixed and released in Dolby Atmos on the major music streaming platforms and OTT services globally, **Bhaskar Pal**, Content Lead - India, ME, Africa at Dolby India enlightened studio designers, acoustic consultants and system integrators as well as existing studio owners contemplating upgrading their mix room about the requirements for near-field Atmos mix rooms and provided understanding on the basic design requirements for these rooms. The novelty of the topic led to an extensive Q&A session which filtered outside the conference hall post the session for another three hours. "It was a privilege to participate as a speaker and share knowledge with the industry professionals about Dolby Atmos studio setup. It was an exciting session with great participa-

tion, with some very interesting question-answer follow up," said Pal. "It's really exciting to see the huge response and huge crowd; I haven't seen this in a long time. All the big brands that matter and all the top professionals that matter, can be seen here."

More pro audio sessions like the one on "Big Studios Make Big Soundtracks" engaged emerging and established professionals in a panel discussion, deliberating on the need for re-establishing focus on top of line studios with big, quality, state-of-art recording gear to record the big music soundtracks. Summing up the session, Senior Consulting Recording and Mix Engineer, **Shantanu Hudlikar** who was one of the panelists on the session said, "We are here to discuss the benefits of being in a big studio. Big studios are coming at a premium nowadays and few people are ready to build it. What we did conclude at the end of the session is that, yes there is still a need for big studios, and you still need big studios to get you the big sound that we are so accustomed to hearing. Can't thank PALM enough for making this happen, bringing us together and having the courage to comeback after two and

half-three years of doing nothing due to the pandemic."

AV Projects and Career and Home AV

AV Industry leaders and professionals participated in two intensive discussions - Quality Paradigm of Mega Scale AV Projects, which discussed how Indian Integrators can ensure global levels of quality for large scale AV Projects and Greater Opportunities in the AV Industry which discussed how as an industry we can do a better job in cultivating talent for the future as a win-win for all.

Another hot topic presented on the platform was Delivering high-end AV solutions for high-end residences. This session by Veeryavanta Pariat Bhide threw light on the current level of client's expectations, technology and deliverables in today's high-end solutions and the necessary SI/Consultant skill set required to meet new level of demand.



From l-r: Shantanu Hudlikar, Farhad K. Dadyburjor, Bishwadeep Chatterjee, K.J. Singh. Esteemed panellist on the "BIG STUDIOS MAKE BIG SOUNDTRACKS" session

DAY 1: 26 MAY 2022

PALM EXPO & CONFERENCE 2022 - KEYNOTE ADDRESS

Speaker: ANIL CHOPRA, Founding Director, PALM expo

PERFORMANCE GUARANTEE OF MEGA SCALE LIVE SOUND PROJECTS

Speaker: ROGER DREGO, Proprietor - Electrocraft | Roger Drego Theatre Management | Star Professional Audio

HOW GOOD MONITOR MIXING CAN BOOST A PERFORMANCE: INSIGHTS, TIPS AND TRICKS

Speaker: ASHISH SAKSENA, Live Sound Engineer for Shankar Ehsaan Loy and KK.

RESHAPING THE FUTURE OF EQUIPMENT RENTAL SERVICES IN INDIA

EESA PALM SESSION on Event Equipment Rental Services Market Dynamics

Speaker: WARREN DSOUZA, Founder & Managing Director - SOUND.COM / EESA Member

FUTURENOMICS: FUTURE OF EVENTS WORK | WORKERS | WORKPLACE

Panelists:

RAGHAV ROY KAPUR, Director, Livewire Events & Promos

NAZEEF MOHAMMED, Founder and creative director of BToS Productions

DEEPAK PAWAR, Secretary, EEMA & Managing Director at Midas Next Media Pvt. Ltd.

HARSHAL KOTHARI, Director, Rising Events

SYSTEMS ENGINEERING FOR THE BIG STAGE

Speaker: DWAYNE DAS, Application Engineer, Alphatec Audio Video Pvt Ltd

QUALITY PARADIGM OF MEGA SCALE AV PROJECTS

Panelists:

PRASHANT GOVINDAN, Regional Consultant - India, Generation AV; KAPIL THIRWANI, Principal Consultant and Partner at Munro Acoustics India;

CLARON D'SOUZA, Independent AV Consultant

ABDUL WAHEED, Managing Director at EYTE Technology Pvt. Ltd.

TOP 50 PRODUCTS & TECHNOLOGY

DAY 2: 27 MAY 2022

GREATER OPPORTUNITIES IN THE AV INDUSTRY

Speaker: PRASHANT GOVINDAN, Regional Consultant - India, Generation AV and ANIL CHOPRA, Founding Director, PALM expo

DOLBY ATMOS FOR MUSIC

Speaker: SREEJESH NAIR, Avid Dolby Certified Audio Application Specialist

CONVERGING TECHNOLOGIES THAT REINFORCE LIVE EVENTS OF THE FUTURE

EESA PALM Technology Session

Speaker: VIJAY SABHLOK, Technical Director | Event & Show Director / EESA Member

PALM Conference Audio Partner
HARMAN International (India) Pvt.Ltd.



Vijay Sabhlok



Veeryavanta Pariat Bhide



Narendra Naidu

AV Architect of the Year

PALM AV-ICN platform dedicated to Audiovisual Communication and Audio Video Integration and Networking has instituted the AV Architect of the Year award as a Recognition of Excellence in AV Integration.

With this award AV-ICN aims to recognize professionals who have achieved excellence in adopting latest technologies in AV Architecture Design, Installation and Program.

This year, for his exemplary work for the Statue of Unity Project and other visitor attraction projects, the Best AV Architect 2021 award was conferred on **Narendra Naidu**, Managing Director, M/s. Rhino Engineers Private Limited on the PALM AV-ICN Conference platform



Panel discussion on HOLISTIC AND NEW LIGHTING DESIGN CONCEPTS. From l-r: Naveen Deshpande, Sreekanth, Rasesh Parekh And Viraf Pocha

Dynamic Associations

Industry Associations like **EESA** and **EEMA** presented diverse topics centered on aspects of the event industry like the volatile nature of live event equipment rental services, future of events – work, workers, and workplace, converging technologies reinforcing live events of the future and conceptualizing streamlined approach to organizing world-class events.

Talking of his session on Reshaping the Future of Equipment Rental Services, Warren D'souza says, "It was about making our industry understand the challenges that we are going to face ahead and how we can overcome them and stay ahead in our businesses."

"Always a great to be part of a session where we were trying to build bridges with



Bhaskar Pal



Rolins Thomas Roy



Sagar Reddy



Felix Remedios



Suresh Madan



Roshan Abbas

world-class events and to be able to discuss ideas on how we can all come together. The technical, creative, planning and the servicing side of the businesses need to be working together a lot more. In places and forums like these, we can discuss a lot more ideas. The idea of collaborating on building unique cultures, focusing on scale and skill, was a wonderful point that came out. With EMMA we are committed to making sure a lot more of these kinds of collaborations happen. The technical aspect training is going to be a focus in the future, and I do hope we can come to many more such sessions and learn and even be able to educate these people," said event industry bigwig and President of EEMA, the consortium of event management and entertainment company leaders of the country, **Roshan Abbas**. "Coming to PALM expo is always unique, you get to meet the industry leaders, you get to see the best



Narendra Naidu (r) being felicitated with AV ARCHITECT OF THE YEAR for his outstanding work on the Statue of Unity and other major AV projects

of innovations and technology around you."

Worldwide organisation of audio professionals - **AES India section**, presented a session on the stages involved in projects with acoustic detailing & stringent spatial requirements. From the drawing board to setting acoustic design criteria & specifications and then moving onto the execution at site until completion - irrespective of the type of project i.e private & public spaces like studios, theatres, sports venues or cultural halls and more. The session was conducted by **Rolins Thomas Roy**, Partner, Rolins Arcoustics LLP. "It was an amazing experience meeting a lot of industry greats and speaking to them on this platform. It was a very productive session and I really congratulate PALM AV-ICN for putting together such a successful event," he said.



Rajesh KV



Betson Carvalho



Nixon Johny

DELIVERING HIGH-END AV SOLUTIONS FOR HIGH-END RESIDENCES

Speaker: **VEERYAVANTA PARIAT BHIDE**, Director of Residential Systems and Solutions, Alphatec Audio Video Pvt. Ltd.

BIG STUDIOS MAKE BIG SOUNDTRACKS

Panelists:

FARHAD K. DADYBURJOR, Recording & Mix Engineer and National Business Head - Studios at Alphatec Audio Video Pvt. Ltd.

BISHWADEEP CHATTERJEE, Film Sound Designer, Sound Editor, Audio Mixer and Partner at Q Factor and Orbis Studios

SHANTANU HUDLIKAR, Senior Consulting Recording and Mix Engineer

KJ SINGH, Audio Engineer, Music Producer and Partner at Asli Music LLP

AV ARCHITECT OF THE YEAR

Speaker: **NARENDRA NAIDU** Chairman and Managing Director, Rhino Engineers Pvt. Ltd., Ahmedabad

ANIL CHOPRA Founding Director, PALM expo

HOLISTIC AND NEW LIGHTING DESIGN CONCEPTS FOR STAGE AND SPECIAL VENUE EVENTS

Panelists:

VIRAF POCHA, Director, Landmark Productions (P) Ltd.

NAVEEN DESHPANDE, Founder and Director, Ground Control

RASESH PAREKH, Founder & Proprietor, Integrated Entertainment Solutions

SREEKANTH, Director, Cameo Light Academy

DAY 3: 28 MAY 2022

GETTING YOUR STUDIO DOLBY ATMOS READY

Speaker: **BHASKAR PAL** Content Lead - India, ME, Africa at Dolby India

Session Powered by:



► **NEUMANN.BERLIN**

'THE PROCESS' - DESIGN & CONSTRUCTION OF ACOUSTICALLY SENSITIVE SPACES. AES INDIA PALM TECHNOLOGY Session

Speaker: **ROLINS THOMAS ROY** B.Arch, M.IOA, M.ASA, : Partner, Rolins Arcoustics LLP

BUILDING BRIDGES: CONCEPTUALIZING A STREAMLINED APPROACH TO ORGANIZING WORLD-CLASS EVENTS

EESA PALM Panel Discussion

PANELISTS:

SAGAR REDDY, Director, Activ Solutions (Moderator)

FELIX REMEDIOS, Managing Director, Reynolds Professional Sound & Lighting

SURESH MADAN, Founder & CTO, Dynamix Media

ROSHAN ABBAS, Founder, Commune India | Director, Geometry Encompass

RAJESH KV, Founder / Partner of CAB

STAGE MUSIC PRODUCTION FOR LIVE VIDEO STREAMING

Speaker: **BETSON CARVALHO** Founder, BNA Talents

NIXON JOHNY, Founder, NJS Virtual Studio

IRAA 2021 FELICITATION CEREMONY AND OPEN FORUM

www.palmexpo.in/conference-agenda-new-2022.aspx

PALM **Conference** **& Seminar**

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**INDIA'S MOST PRESTIGIOUS,
ACKNOWLEDGED, PRO AUDIO
CONFERENCE**

Topics: Pro Sound, Stage Sound, Studio Sound, Stage Lighting and Pro AV

S P E A K E R S



ANIL CHOPRA



ASHISH SAKSENA



BETSON CARVALHO



BHASKAR PAL



**BISHWADEEP
CHATTERJEE**



DWAYNE DAS



DEEPAK PAWAR



**FARHAD K.
DADYBURJOR**



FELIX REMEDIOS



**HARSHAL
KOTHARI**



KJ SINGH



NARENDRA NAIDU



**NAVEEN
DESHPANDE**



**NAZEEF
MOHAMMED**



NIXON JOHNY



**PRASHANT
GOVINDAN**



**RAGHAV ROY
KAPUR**



RAJESH KV



RASESH PAREKH



ROGER DREGO



**ROLINS THOMAS
ROY**



ROSHAN ABBAS



SAGAR REDDY



**SHANTANU
HUDLIKAR**



SREEJESH NAIR



SREEKANTH



SURESH MADAN



**VEERYAVANTA
PARIAT BHIDE**



VIJAY SABHLOK



VIRAF POCHA



WARREN DSOUZA

**SINCERE GRATITUDE TO ALL
THE ROCK STAR SPEAKERS
OF PALM & AV-ICN EXPO
2022**

CAVS (Certified AV Specialist) Course returns for its second consecutive edition

The ethos of CAVS is to provide an independent neutral education forum suited to Indian AV ecosystem to gain their commitment to a future career in AV as a technician and join an integration team on par. AV professionals in India were imparted basic knowledge of AV from May 26 – May 28, 2022 at the CAVS three-day training. The CAVS certificate covered basic curriculum introducing the aspirant to essential AV protocol and standards, they must know. CAVS will introduce advanced courses in future editions, imparting learning in AV Design and Networking and Integration and full capability to practice AV consultancy for large projects.

Following the success of the CAVS (Certified AV Specialist) certification course conducted by Mr. Ranjit Singh in 2019, AV-ICN 2022 once again organized the second consecutive, three-day certification course from May 26 – May 28, 2022, in Hall 1 of the Bombay Exhibition Centre, Goregaon.

PALM & AV-ICN is fully committed to galvanize professionalism with this certification programme. CAVS was run by Indian professionals to train on Specs, Techniques, Tools, Technologies, Trends. The three-day certification course was conducted by, Abdul Waheed, and Arif Patil.

Abdul Waheed is a dynamic AV industry leader and Managing Director at EYTE Technologies Pvt Ltd., a leading AV, IT, IOT and Acoustic consultant in India. Abdul, a CTS holder from Avixa and a Member on Certificate Committee of AVIXA, he has been in the AV industry for more than two decades and EYTE has contributed to and delivered many successful projects that includes MNCs, Hospitality, Government and Educational segments.

Arif Patil is the Principal Consultant at EYTE. A Certified Technology Specialist- Installation (CTS-I) by AVIXA (along with CCNA Certification), he has 21+ year Experience in the field of Audio Visual and IT Infrastructure. Working in the technical team of EYTE, he is involved in project Designing, Testing & Commissioning for more than 150+ projects.

This year the CAVS three-day training was aimed to leave the attendees with an understanding of the technology and trends that are driving today's meeting spaces while also covering some basic foundation on Audio, Visual, IT Passive for the participant to then research and do their own read up to increase their knowledge and was successful in empowering attendees with an understanding of technology and trends in the AV world. The speakers Abdul Waheed & Arif Patil provided knowledgeable information on how one can create talent with specific learning for AV integration and more.

"The CAVS is a loud and clear declaration of intent to provide genuine and meaningful certification

“

**I have 20 years of experience as an engineer
I joined this course to understand about AV
installation and these people have managed the
course very well and delivered it in three days.**”

Mukesh Sharma, Senior General Manager,
Ind. Agiv Commerce Ltd.



CAVS 2022 was conducted by Abdul Waheed and Arif Patil of EYTE Technologies, who trained delegates on AV Specs, Techniques, Tools, Technologies and Trends



“I came to know about this course through my company, which is into AV solutions. This course is very much important. It helps you understand audio and video technology, acoustics, and various other factors, that you should know, while designing the boardroom automation or auditorium or any other room or having a conversation with a client about AV solutions. Technology is changing every six months and this course is very much needed for anyone entering the AV or acoustics field.”

Arpit Mishra, Senior Business Development, Laser AV Solutions



The CAVS three-day training was aimed to leave the attendees with an understanding of the technology and trends that are driving today's meeting spaces while also covering some basic foundation on Audio, Visual and IT Passive

in India for AV professionals seeking to be credible for AV integration, communication and networking [AV-ICN] projects, to have a career in AV industry with certified credibility," said **Anil Chopra**. "The CAVS course provides a platform for people who want to enter this field and become AV professionals. The three-day training covers the physics of audio, electronic aspect of AV, and IT protocols. This is a very big opportunity that people are getting and specially this one is happening after three years," says **Waheed**. "I'm very enthusiastic to see so many people. PALM expo is specially for live AV and broadcasting, but since the past two years they have started focusing on Pro AV with the AV-ICN expo. The AV industry is a very niche field, we don't have formal education from any educational institutes so seldom we get the people rightly trained in this field, and this is one of the biggest challenge our field is facing. We do not get right people for the job, so attending these kinds of trainings and events not only educates the people but they get to see the various aspects



**CERTIFICATE
OF COMPLETION**

is awarded to

Partho Das

This recipient is hereby has successfully attended and completed the three days training for "DESIGNING WORKSPACES IN CHANGING TIMES" conducted by AV-Integration Communication Networking Expo 2022, from 26th to 28th May 2022.


ANIL CHOPRA
CONVENOR AV-ICN
CAVS PROGRAMME DIRECTOR

ABDUL WAHEED
MANAGING DIRECTOR,
EYTE TECHNOLOGIES PVT. LTD. (CTS)

Valid till 2025

**AV-ICN
EXPO 2022**
AV INTEGRATION COMMUNICATION NETWORKING EXPO

“This is a training for AV to help design the boardroom, conference room, etc. This certified course will help me in my career. This knowledge will help while implementing the design system. The course is very good and informative for those starting a career in AV.”

Ajit Patil, Sr. Design & Presale Engineer,
Resurgent AV

ers, signal quality & bandwidth, video signal encoding & decoding, viewer placement, aspect ratio & resolution, inverse square law, display technology, projector technology and screen size calculations, network – topology, standards, connections and types, OSI model, network switches & gateway, IP protocol and control ports and much more.

All three days, the training started at 11:00 in the morning and went on till 6:00 in the evening, interrupted only by a 40-minute buffet lunch break and a small evening coffee break organized by PALM AV-ICN. On the third day, the registered attendees took an examination which assessed their learning acquired over the three days. The Course ended with the successful attendees being handed their certificates valid for a period of three years, till May 2025.

DAY 1 (11am - 6pm): Going back to Basics

- Basics of Audio, Video and Control
- AV Maths
- Design Considerations

DAY 2 (11am - 6pm): Design Phase/ Designing

- Requirement Gathering (Need v/s Wants)
- Project Flow

Day 3 (11am - 5pm): Technology Post Covid

- Shift from Professional to Consumer
- Lifestyle and trends post Covid
- Technology and Experience



PALM **Conference & Seminar**

Sound • Light • Audiovisual

**WARM THANK YOU TO ALL THE
INDUSTRY ASSOCIATIONS FOR
PARTICIPATING IN THE PALM &
AV-ICN 2022 CONFERENCE**

AES
INDIA

Audio Engineering Society

EEEMA

Event & Entertainment
Management Association



EESA

EVENT EQUIPMENT SERVICES ASSOCIATION

REFORM | STANDARDISE | REVOLUTIONISE



The Opening act on the HARMAN Live Arena Stage: DRUMS SHIVAMANI & LYDIAN NADHASWARAM (FEAT. RUNAA RIZVII)

HARMAN Live Arena dazzles with a range of latest audio and lighting gear

The HARMAN Live Arena one of the most popular demo features at the PALM Expo entered its 11th year. The Live Arena facilitates live demonstrations of advanced sound and lighting systems, through three-day live musical performances, featuring popular and budding artists and bands from the country's independent music scene.

As in previous editions, HARMAN once again powered this PALM IP with top-of-the-line, newly launched products & solutions from brands in the HARMAN bouquet.

Deployment of the sound system at the live arena was entrusted into the capable

hands of Pune based ace technical services provider **SoundEffects** By **Uday Shah**, to ensure that the 2022 edition of the feature culminated into the largest and most flawless audience experience ever.

SoundEffects has commissioned various prestigious music festivals like Sunburn, NH7 Weekender, and Trikaal Festival besides countless private and corporate events featuring music big-wigs like Agnee, Kshmr, Pritam, Guru Randhawa, Lucky Ali, Rahul Vaidya, Falguni Pathak, Shalmali Kolgade, Salman Ali, Astha Gill, Stebin Ben, Swarathma and more.

With some of live music's biggest names like Sivamani, Runa Rizvi, Dipesh Varma, Darshan Doshi, Aditi Ramesh, MotherJane, Taufiq Qureshi, Louis Banks, and several more gracing the HARMAN Live Arena stage this year; the feature, as always, was equipped with an end-to-end technical infrastructure from industry leaders HARMAN Professional.

"It's great to be here at PALM AV-ICN 2022. Fantastic to see the footfalls. We have been meeting end-users as well as our partners. The HARMAN Live Arena features some of the most well-known artists in the country and it allows us to showcase HARMAN products in the most optimum manner," said **G Amar Subash** - Vice President and General Manager, Asia Pacific and India at Harman Professional Solutions

ASTOUNDING AUDIO INVENTORY

A stellar microphone inventory from **AKG** (451B / C1000S / D7 / C5 / D40 / HC81 / D12VR / 214B / DRUM KIT MICS / C411 / C5P / C51) was deployed for various vocal and instrumental exigencies and an all **JBL by HARMAN** loudspeaker system wowed the artists and audiences alike. The FOH system comprised the all-new VTX-A12 line array system accompanied by the G-28 subs along with the VTX V-20 modules deployed as center-fills and F15 modules along with F18s subs deployed as side-fills. Multiple numbers of the M20, M22 and VRX915 loudspeakers were deployed at the on-stage artist monitoring system, with the entire loudspeaker system powered through a formidable amplification infrastructure of **Crown** IT12000HD & Crown IT 4x3500HD power amplifiers (with VRack) and controlled through **Soundcraft** Vi3000 with the 9U Vi Stagebox deployed at FOH and the Soundcraft Vi2000 with the 9U Vi



ADITI RAMESH takes the stage

Stagebox deployed at MON positions respectively.

The above technical solution was provided in part by HARMAN Professional, with the rest being sufficed by SoundEffects' own personal inventory – thereby making it a joint-endeavor that spotlighted not just the confluence of superior technology but also extremely astute technical minds. The SoundEffects team worked closely with members from HARMAN Professional in ensuring a flawless technical execution of the feature on all 3-days of the event, including system setup and de-rigging; with reputed engineers **Lakir Mehta** and **Zahid Khan** representing SoundEffects on FOH and MON respectively, and **Sudarshan Srinivasan** responsible for systems engineering. Additionally, the SoundEffects stage-tech team shouldered the responsibility of ensuring a completely seamless experience in terms of performance/artist change-overs (i.e the transition between different artists per the performance schedule). Also, with due consideration to the diverse range of live performances penciled in for the HARMAN Live Arena across all three days, SoundEffects deployed their own personal cache of world-class backline inventory to ensure that artists and musicians on-stage were equipped with only the best gear for their performances. The complete backline inventory deployed included **Pearl Masters** Drum Kit; **EBS Reidmar** 250 Bass Head with Classicline 410; Markbass Little Mark Tube 800 with 104HR; **Roland** KC-550 & KC880; **Fender** 65'Twin Reverb; Fender Hot Rod Deville ML 212 Michael Landau Signature; **Roland** JC-120 Jazz Chorus; Latin Percussion Classic & Matador Series Conga, Quinto & Tumbas; Latin Percussion Wind Chimes; Remo Djembes; Tycoon & Masterworks Darbuka, Latin Percussion Cajon; Latin Percussion Timbales; Yamaha Montage 6/7/8 keyboards; and the Korg Kronos 2 – 61 keys.

Needless to say, the 2022 edition of the HARMAN Live Arena at the PALM Expo lived up to every single expectation of a superlative experience – not just for the crowd, but also for the artists – with noted independent mix engineers who visited and worked on various different acts that performed at the HARMAN Live Arena; showering heaps of praise for the sheer quality of the system setup and technical solution put together.



UDAY SHAH (c) and his team at SoundEffects celebrate after a successful deployment of the sound system at the live arena

HARMAN Live Arena schedule 2022

DAY 1: 26 MAY

1.00 PM - 2.00 PM

DRUMS SHIVAMANI & LYDIAN NADHASWARAM (FEAT. RUNAA RIZVII)

2.30 PM - 3.30 PM

72/35 SOUTHERN STREET

4.00 PM - 5.00 PM

CONFLUENCE BY DIPESH VARMA

5.30 PM - 6.30 PM

DARSHAN DOSHI TRIO FEAT. HASH-BASS & RICKRAJ NATH

DAY 2: 27 MAY

1.30 PM - 2.30 PM

ADITI RAMESH

3.00 PM - 4.00 PM

MOTHERJANE

4.30 PM - 5.30 PM

TAUFIQ QURESHI FEAT. HIS BAND MUMBAI STAMP & ANIRBAN ROY

DAY 3: 28 MAY

1.30 PM - 2.30 PM

THERMAL AND A QUARTER

3.00 PM - 4.00 PM

TA DHOM PROJECT BY VIVEICK RAJAGOPALAN

4.30 PM - 5.30 PM

THE LOUIZ BANKS MATRIX BAND



LOUIZ BANKS MATRIX BAND end the three-day musical extravaganza on the Live Arena stage with their spectacular performance

Summing SoundEffects' first year of direct association with the HARMAN Live Arena, Uday affirms "This was such a fantastic experience for all of us; and I'd like to thank every member representing the SoundEffects team who put their heart and soul into making the Harman Live Arena an overwhelming success at the PALM Expo this year. Of course, my deepest gratitude to the entire team at HARMAN Professional, in particular **Bineetha Michael, Ankush Agarwal, Sundar Raj Thaddeus, Vinayak Kamath, Pavan Chawda, Elisha Gladson Yeswanth, Sajag Gupta, and Yogesh Nambiar** for their unwavering support and active involvement throughout the entire process of bringing the Harman Live Arena experience together. It is truly humbling to have so many people – audience members and industry peers – sharing kind words of appreciation about their experience at the HARMAN Live Arena this year. Not only does this instill a great deal of confidence within every member of SoundEffects; but it's also got us all excited and looking forward to building on this synergistic association with HARMAN Professional, and pulling off bigger and better production experiences for future editions of the feature!"

Complementing the audio gear was some of the latest lighting fixtures from **Martin Lighting** by **HARMAN**.



WE EXTEND A BIG **THANK YOU TO **HARMAN** FOR STAGING A FABULOUS THREE-DAY HARMAN LIVE ARENA AT THE PALM**

HARMAN LIVE ARENA ARTISTS:

- DRUMS SHIVAMANI & LYDIAN NADHASWARAM (FEAT. RUNAA RIZVII)
- 72/35 SOUTHERN STREET
- CONFLUENCE BY DIPESH VARMA
- ADITI RAMESH
- MOTHERJANE
- TAUFIQ QURESHI FEAT. HIS BAND MUMBAI STAMP & ANIRBAN ROY
- THERMAL AND A QUARTER
- TA DHOM PROJECT BY VIVEICK RAJAGOPALAN
- THE LOUIZ BANKS MATRIX BAND



AND A **THANK YOU TO ALL THE **MUSICIANS** AND **CREW MEMBERS****

IRAA 2021 WINNERS FELICITATED AT A GRAND FELICITATION CEREMONY

The Indian Recording Arts Academy Awards (IRAA) announced winners across 50 categories at a virtual awards ceremony streamed live on the PALM YouTube Channel on 5th Feb 2022. The IRAA 2021 winners were felicitated with a memento on the PALM AV-ICN stage on 28th May 2022 in the presence of Jury members. This ceremony concluded with an open forum discussing IRAA categories and the evolving Independent Music scene in the country.



Abhijeet Vishwanath Sapre | Dialogue Editor / ADR Engineer for Short Films



Abhishek Ghatak | Independent Song Recording & Mixing: Rap and Hip-Hop



Shijin Melvin Hutton, Abhishek Nair | Sound Designer (Film or Web Release) - Hindi | Sound Editor Effects & Ambience (Film or Web Release) - Hindi



Aman Arakh | Independent Song Recording & Mixing: Acoustic/Folk (non-classical)



Amandeep Singh | Foley Engineer (Film or Web Release) - Hindi



Anand Dabre, Reena Gilbert | Classical Recording & Mixing



Anish Poduval | Web Series Mixing



Arpit Mehta | Music Producer Web Series - Hindi



Arun Nambiar | Sound Designer for Web Series - Hindi



Aseem Dhaneshwar | Independent Song Recording & Mixing: Pop



Bhabani Mallick | Sync Sound Recording Web Series



Dattaprasad Desai | Dialogue Editor / ADR Engineer (Film or Web Release) - Regional



Debojit Sengupta | Song Recording & Mixing (Film or Web Release) - Regional



Divyang Arora | Music Producer Independent: Pop



Devang Rachh | Sound mixing for Advertisement



Foley Artist for Short Films | Karan Arjun Singh / Shankar Singh / Anil Pawar / Baylon Fonseca



Gandhar Mokashi | Mixing (Film or Web Release) - Hindi



Baylon Fonseca, Gokul K.R | Dialogue Editor / ADR Engineer for Documentaries



Hersh Desai | Independent Song Recording & Mixing: Progressive/ Alternative



Leslie Charles | Music Producer Independent: Rock / blues / Metal



Lochan Kanvinde | Sync Sound Recording (Film or Web Release) - Hindi



Manoj Yadav | Foley Artist for Web Series



Meghdeep Bose | Music Producer Independent: Acoustic (non - classical)



Mervin T Thomas | Independent Song Recording & Mixing: Electronic



Mohammad Iqbal | Foley Artist (Film or Web Release) - Hindi



Prasanna Suresh, Ishan Das | Music Producer - Hindi Film Song



Ishan Das, Anubhav Gogoi, Nawaz Hussian, Vivian D'Souza | Music Producer Independent: Alternative



Prasanna Suresh | Music Producer Independent: Rap and Hip-Hop

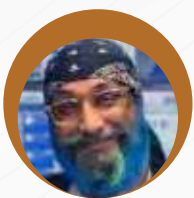


Nitin Muralikrishna | Independent Song Recording & Mixing: Rock / blues / Metal



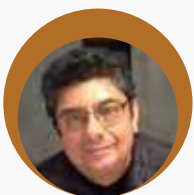
Karan Arjun Singh, Ram Kishan Nath | Foley Engineer for Short Films

IRAA ANNOUNCES JURY 2022



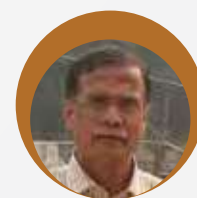
KJ Singh: Multiple-award-winning Sound Engineer / Designer, Audio consultant, Live Sound Engineer for A.R. Rahman & Hariharan etc., Partner at Asli Music LLP and Proprietor of Fast Forward Productions.

Anindo Bose: Keyboard Player, Arranger/Producer, Studio/Live Sound engineer, Music Educator and Owner of Plug 'N' Play Studios Delhi.



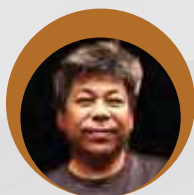
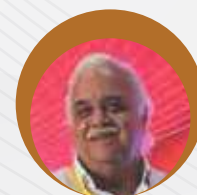
Atul Sharma: Multiple-award-winning Music Composer, Producer, Sitarist, Singer and Judge on the popular TV show "Voice of Punjab".

Avinash Oak: Multiple-award-winning Sound Engineer, Founder Member of AES India Section and visiting faculty for Sound Engineering / Sound Design at various audio engineering institutes.

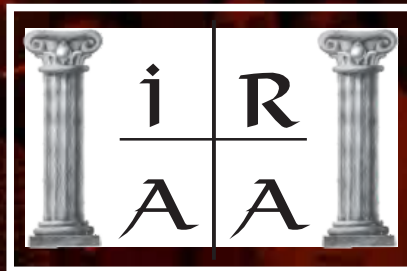


Baylon Fonseca: Production Mixer & Sound Designer of Feature Films, Ad Films & Documentaries, and Winner of multiple prestigious awards like National Awards, Filmfare Awards, IIFA, IRAA etc.

Daman Sood: Multiple-award-winning Sound Recording and Mix Engineer, renowned Studio Designer and Founder of Sound Team distribution company.

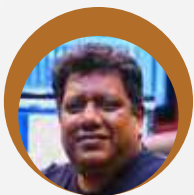


Dhruvajyoti (DJ) Phukan: Musician, Music Producer, Music Arranger, Music Programmer, Music Director and Background Music Director and Chief of Pritam Chakraborty 's Music Production/Arrangement/Programming Team.



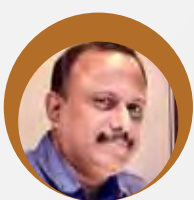
indian RECORDING ARTS ACADEMY AWARDS

For complete profile of Jury Members visit www.ira.a.in



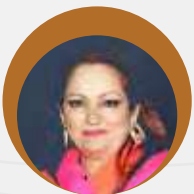
Goutam Basu: Sound Recordist and Song Mixing Engineer for Bengali and Bollywood music and films and Sound Recordist for Studio Vibrations, Kolkata.

Adrushta Deepak Pallikonda (P.A. Deepak): Mix & Mastering Engineer, Record Producer and two-time Grammy Award Winner and winner of several other awards such as Mirchi Music, GIMA etc.



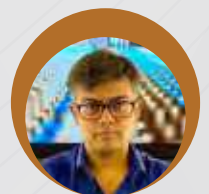
S Sivakumar: Chief Sound Engineer of A.R.Rahman's AM Studio, two-time recipient Of Tamil Nadu State Award and other awards.

Sai Shravanam: Musician, Music Producer, Recording/Mixing & Mastering Engineer, Sound Recordist and Additional Engineer for Academy Award winning film, 'Life of Pi' and recipient of several prestigious Government recognitions.



Sita Raina: Theatre, Television and Cinema actor, Theatre Director, Producer of music, theatre, television and Cinema content and Co-Founder & Director of The Peninsula Studios.

Vijay Rathinam: Sound Design Specialist with experience in Indian motion picture and British television industries, Golden Reel award nominated Sound Designer and Owner of The Audioville, Chennai.





Shantanu Yennemadi | Dialogue Editor / ADR Engineer (Film or Web Release) - Hindi



Shitalchandra Kulkarni | Instrumental & Fusion Music Production



S Sivakumar, Varun Venkataraman | Mixing (Film or Web Release) - Regional



Sidhardh Ramesh | Dialogue Editor / ADR Engineer for Web Series - Hindi



Teja Asgk | Sound Editor Effects & Ambience for Web Series - Hindi



Uttam Shah | Song Recording & Mixing (Film or Web Release) - Hindi



S Sivakumar & Varun Venkataraman | Mixing (Film or Web Release) - Regional



IIRA Awards 2021 Winners

10TH ANNUAL PALM SOUND & LIGHT AWARDS WINNERS

The PALM Expo, over the last 20 years, has introduced the latest technology, techniques, and trends, to the Indian Industry on its expo floor and the heart of the awards program is the independent neutral platform of PALM EXPO and the philosophy of the organizers to take the Indian market to the next level, meeting global standards of excellence and professionalism. The 10th annual PALM Sound & Light Awards continued to up the paradigm of excellence in AV, Sound and Light production in India by recognizing individuals and organizations for their unparalleled contribution to this industry by rendering outstanding services. In all, there were 14 categories for the evening's event. This event which also hosted the Exhibitor's Networking Cocktail & Dinner took place at the Hotel Sahara Star Jade Hall on 27th May.



Ahuja Family | OUTSTANDING CONTRIBUTION TO THE PRO AUDIO INDUSTRY



Narendra Naidu | AV ARCHITECT OF THE YEAR



KJ Singh | OUTSTANDING AUDIO FOH ENGINEER



Naveen Deshpande, Ground Control | OUTSTANDING LIGHTING DESIGNER



Sound Effects | OUTSTANDING SOUND RENTAL COMPANY



Mowzz Entertainment Services | OUTSTANDING LIGHTING RENTAL COMPANY



Electrocraft | EXCELLENCE IN STAGE DESIGN - CONCEPT & PRODUCTION



Kapil Thirwani | EXCELLENCE IN SOUND DESIGN & INTEGRATION



Vijay Sabhlok | INNOVATIVE PROJECTION MAPPING



All-Wave AV | EXCELLENCE IN AV INTEGRATION



Devasis Barkataki | CORPORATE EXECUTIVE EXCELLENCE IN INDIAN PRO SOUND & LIGHT INDUSTRY



Daniel Sennheiser And Andreas Sennheiser | GLOBAL AUDIO INDUSTRY LEADER



Alphatec Audio Video Pvt. Ltd. | MAJOR AUDIO BRAND DISTRIBUTION NETWORK



WINNERS OF PALM SOUND AND LIGHT AWARDS 2022

LIST OF EXHIBITORS 2022

HALL 1 - PRO AUDIO

- 4 SQUARES CORPORATION
- ACTIVE VOICE PROFESSIONAL
- ADAM HALL
- AERONS (INDIA) EXIM PVT. LTD.
- AHUJA RADIOS
- ALPHATEC AUDIO VIDEO PVT. LTD.
- APNA STUDIO PVT. LTD.
- APAGAR
- ASHISH WIRES
- ATI PRO AUDIO
- ATONE PRO AUDIO (A M PAPER)
- AUDIO LOGIC
- AUDIOPLUS
- AUDIOTONE PROFESSIONAL
- AVCS INDIA
- AVIS VISIONTECH PVT. LTD.
- LORD QUBIX (B S ELECTRONIC)
- BAASSFX
- BETA THREE AUDIO INDIA PVT. LTD.
- BPL PRODUCTS
- CANARA LIGHTING INDUSTRIES PVT. LTD.
- CAPITAL RADIO COMPANY
- CIRCLE PRO AUDIO LLP
- COMCON
- CONVERSATIONS MANTRA PRIVATE LIMITED (PRO TECH AUDIO)
- DASS AND COMPANY
- DATALOGICS INDIA PRIVATE LIMITED
- DECIBEL PRO SYSTEMS
- DELHI LIGHT AND MUSIC
- DEV ELECTRONICS (PROLINE)
- DI IMPEX
- DISC BOY
- ENBON LED / MAVEN
- ENERGY ELECTRONICS
- EXTINT DÉCOR
- G-AUDIO INDIA PRIVATE LIMITED
- G.M. AUDIO TECHNICS

- GH STAR LED
- GIRIRAJ SOUND SERVICES
- HARI INDUSTRIES
- HARMAN INTERNATIONAL (INDIA) PVT. LTD.
- HARNESS OVERSEAS PRIVATE LIMITED
- HAWAII LED
- HEINRICH CORPORATION INDIA PRIVATE LIMITED
- HITECH AUDIO & IMAGE
- HIFIDECO INDIA PRIVATE LIMITED
- HI-TECH PRODUCTS PRIVATE LTD.
- INTEGRATED ENTERTAINMENT SOLUTIONS
- JHM CASE CRAFT
- JINALI ENTERPRISE
- KADENCE / CRESURGE
- KIRAN SALES CORPORATION
- KRYSTAL CABLES INDIA PVT. LTD.
- LED INDIA - RZONE
- LEKSA LIGHTING TECHNOLOGIES PRIVATE LIMITED
- LUXURY PERSONIFIED
- MAHAVIR ENTERPRISE (POWER PACK)
- MAX EFFECT PROFESSIONAL SOUND SYSTEM AND LIGHT
- MAXHUB-CVTE / GUANGZHOU SHIRUI ELECTRONICS TECHNOLOGY CO. LTD.
- MEGA INDIA
- METRO PAPER
- MODERN STAGE SERVICE
- MODERN STAGE SERVICES PVT. LTD.
- MINTU ELETRONICS
- MX MDR TECHNOLOGIES LIMITED
- N-LABS / HEPL
- NARAIN AUDIO AND LIGHTING LLP
- NEWTECH VIDEO SYSTEMS PVT. LTD.
- NUMEN ELECTRIC COMPANY
- NIPPON ENTERPRISES SOUTH

- PARAS AUDIO - BE ACOUSTICS
- POONAM ELECTRONICS
- PPX ELECTRONICS
- HERTZ AND PIXELZ
- PINTO ELECTRONICS
- PREMIER RADIO & ELECTRONIC CORPORATION / SENNHEISER INDIA PVT. LTD.
- PREMIER INDUSTRIAL IMPORTERS
- PRO-KAB TECHNOLOGIES
- PROLINE
- R&S ELECTRONICS SYSTEMS INDIA PVT. LTD.
- R J ENTERPRISES
- R.J.V. SOUND
- SHAH AUDIO INFOTECH PVT. LTD.
- SHARP TRADERS
- SHIVAKRITI INDUSTRIES - DHOOM AUDIO
- SHREE PITHAD TRADING COMPANY
- SINGLA ENTERPRISE
- SONODYNE TECHNOLOGIES PVT. LTD.
- SONOTONE AUDIO
- SOUND LAND
- SOUND SOLUTIONS - A-PLUS
- SOUNDGLITZ
- STAGEMIX
- STAR PROFESSIONAL AUDIO - RD
- STAR AUDIO SYSTEMS
- SUN INFONET PVT. LTD.
- SUNIL ELECTRIC COMPANY
- SUN FLIGHTCASES ENTERPRISES
- SUNRISE LED TECHNOLOGY
- SWASTIK TRADERS
- SYSTEM & SYSTEM
- TELESPEACE
- TENON INDUSTRIAL CO., LTD.
- TENTECH LED DISPLAY PRIVATE LIMITED
- VARDHAMAN MEGATECH PVT. LTD.

- VINCY IMPEX
- WINNER INC. (B.L.K FERRITES)
- WINS ELECTRONICS
- XTREME ACOUSTICS
- YASH ENTERPRISE
- YES LED
- ZYPHER POWER LABS PRIVATE LIMITED

PRODUCT PROFILE

HALL 1 EXHIBITORS

- Sound Reinforcement
- Line Array
- Stage Sound Systems
- Staging Technology
- Consoles, Players, Controllers
- Mixers
- Headphones
- Sound Monitoring
- Installed Sound, PA Systems
- Audio Networking
- Audio for Video (Film & TV)
- Radio Production & Playout
- Ceiling Speakers
- Original Software, DAWs, Plugins
- Consoles & Outboard
- Monitoring Systems
- Microphones



LIST OF EXHIBITORS 2022

HALL 6 - LIGHTING

- BOMBAY ELECTRICAL SUPPLIERS
- CAMEO LIGHT ACADEMY
- CINE AUDIO VISO
- DEVIL TRUSS
- EUROLEC ENERGY
- EON LIGHTING
- EVERSHINE ELECTRONICS
- GSR PYROTECH
- FEEL GOOD LIGHTING / PLANNING MANIA
- FOAM PARTY INDIA
- IBRA ENERGY INDIA PRIVATE LIMITED
- IMAX LIGHTING
- JIA LIGHTING & AUDIO EQUIPMENTS CO.
- KRISHNA LED LIGHTING SEMICONDUCTORS
- LBT ELECTRONICS PVT. LTD.
- LIFTKET INDIA PRIVATE LIMITED
- MANNAT PYROTECH / ANGELS SFX
- NEW ELITE ELECTRICALS
- OSRAM LIGHTING PVT. LTD.
- PIONEER LIGHTING SOLUTIONS INDIA PRIVATE LIMITED
- REVERIE CONSTRUCTIONS & SOLAR SOLUTIONS PRIVATE LIMITED
- SHIV INDUSTRIES
- SHIVA SYSTEMS
- SHOURYA LIGHTING
- SHREE TULSI EVENTS
- SRI MAHAVEER ENTERPRISES / VISION KEY
- SK PYRO
- A-PRO LIGHTING
- SOUND WAVES ENTERPRISES
- STAR DIMENSIONS INDIA PRIVATE LIMITED
- SWASTIK SFX



PRODUCT PROFILE

HALL 6 EXHIBITORS

- Stage Lighting
- Lighting Control & Automation
- Lasers & Effects
- Theatre & Auditorium Lighting
- Trussing
- Rigging
- Studio Lighting
- Club & Disco Lighting
- Architectural Lighting
- Laser Projection

CHINA PAVILLION

- SHENZHEN GLOSHINE TECHNOLOGY CO., LTD
- DONGGUAN MINGYANG ELECTROACOUSTIC PRODUCTS CO., LTD
- SUNNY-LIFE ELECTRICAL TECHNOLOGY CO., LTD.
- SANMING AUDIO ENTERPRISE (KUNSHAN) CO., LTD.
- JUMBOAUDIO ELECTRONICS CO., LTD.
- NINGBO EVERGREEN ACOUSTIC CO., LTD.
- ENPING CITY SOUNDER INTELLIGENT TECHNOLOGY CO., LTD.
- ENPING CITY SHENGHAO ELECTRONIC FACTORY
- GUANGZHOU BAOLUN ELECTRONICS CO., LTD. (ITC GROUP)
- ENPING MIFANDUN ELECTRONIC TECHNOLOGY CO., LTD.
- DONGGUAN A FRIEND INDUSTRIAL CO., LTD / GUANGZHOU TAIMEI ELECTRICAL CO., LTD.
- HEBEI HUAIGE HOISTING MACHINERY GROUP CO., LTD.
- GUANGZHOU SEER AUDIO CO., LTD.
- LEIPASI ELECTRONICS CO., LTD.
- NR AUDIO CO., LTD.
- CODE ELECTRONIC CO., LTD.
- GOLDEN STAR STAGE LIGHTING CO., LTD.
- GUANGDONG TUNA SHADOW INDUSTRY CO., LTD.
- MODE CHINA
- GUANGZHOU HONGHE LIGHTING AND AUDIO EQUIPMENT CO., LTD.
- CHANGZHOU QIANGYU METAL PRODUCTS CO., LTD.
- GUANGZHOU RUISENG POWER TECHNOLOGY CO., LTD.
- GUANGZHOU XINZHIJIE ELECTRONICS CO., LTD.
- GUANGZHOU LIGHTFUL LIGHT EQUIPMENT CO., LTD.
- GUANGONG MING JING STAGE EQUIPMENT TECHNOLOGY CO., LTD.
- SHENZHEN RUBY O&E TECHNOLOGY CO., LTD.
- GUANGZHOU MALANBAO ELECTRONIC LIGHTING EQUIPMENT CO., LTD.
- FOSHAN NANHAI HSE POWER
- GUANGZHOU SHENGHU LOUDSPEAKER COMPONENTS CO., LTD.
- VIVID ACOUSTICS TECHNOLOGY CO., LTD.

ASSOCIATIONS

- AUDIO ENGINEERING SOCIETY
- ALL INDIA ELECTRONICS ASSOCIATION
- EVENT & ENTERTAINMENT MANAGEMENT ASSOCIATION
- EVENT EQUIPMENT SERVICES ASSOCIATION
- PROFESSIONAL AUDIO & LIGHTING ASSOCIATION

MEDIA PARTNERS

- 4 SQUARE MEDIA PVT. LTD
- FILM INDIA DIRECTORY
- INDIAN TELEVISION DOT COM PVT. LTD.
- SATELLITES @ INTERNET INDIA MAGAZINE
- SCORE MAGAZINE
- SPINWORKZ ENTERTAINMENT TECHNOLOGY ASIA
- VISION MEDIA HITECH PVT. LTD.



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NEC INDIA DISPLAY SOLUTIONS TO DEBUT DVLED AT INFOCOMM 2022

NEC India Display Solutions, announced that it would be launching the **FE-012i2-E** from its dvLED FE series - for the first time in India at the upcoming Infocomm India expo.

The NEC direct view LED (**dvLED**) product range offers larger, brighter images compared to single

LCD display options, and can be built in virtually any configuration. Like building blocks, dvLED solutions can be built to fit a specific space or purpose and are designed without seams for one continuous image. The full line of

indoor and outdoor direct view LED video displays deliver attention-grabbing, high contrast and intensely bright images in the brightest environments. The modular, lightweight, cost effective design is perfect for command and control facilities, broadcasting backdrops, transportation hubs, sports venues, corporate signage, and retail environments.

For bezel-free viewing experiences using vivid LED technology, NEC's FE Series delivers essential visualization for scalable large digital surfaces. Even for cost-conscious deployments for presentation and signage, NEC's FE Series provides long-lasting NEC quality with industrial-grade power supplies in easy to install, off the shelf bundle solutions for safe operation with minimised downtimes.

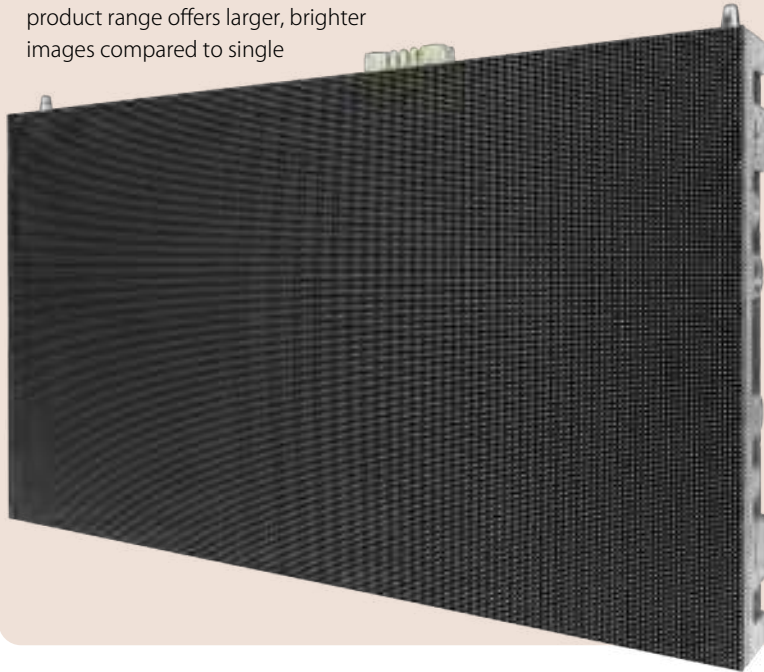
Either freestanding or for seamless integration into interiors, the slim design is sleek and chic as befits the latest innovation in digital content delivery.

The NEC LED-FE012i2-E is an indoor FinePitch LED Module with a pixel Pitch of 1.2 mm, brightness of 600 cd/m² and aspect ratio of 16:9.

Benefits

- **Ultimate Versatility** – small 16:9 modules allowing excellent flexibility within the available space.
- **Front serviceable modules** – with front access to the LED modules, maintenance is easy.
- **Large scale for perfectly detailed imagery** – completely bezel-less design with high contrast rates deliver an unhindered viewing experience.
- **Slim design** – with a flush rear profile, LED modules can be integrated very close to the wall with minimal gap necessary due to very low heat emission.

For more information, visit **NEC** booth no. - E20 at **Infocomm India 2022** from 5 - 7 September 2022 at the **BEC, Mumbai**.



YAMAHA LAUNCHES VXH SERIES PENDANT SPEAKERS FOR COMMERCIAL INSTALLATIONS

Yamaha's new **VXH series** combines high quality music reproduction with exceptional design, bringing enhanced audio to a wide range of commercial spaces where pendant speakers are the preferred solution.

Delivering superior sound in many larger retail, hospitality, entertainment, and corporate premises can be a chal-

lenge with conventional surface mount or in-ceiling speakers. Pendant speakers are often a better solution, delivering more localized sound to reduce the issues of reverberation, unwanted reflections and the resulting lower-quality audio, which speakers located further away from the listener can cause.

Suitable for high, open structure and sloped ceilings, the VXH series comprises two models, the **VXH6** and **VXH8**, engineered for optimum background music and voice reproduction.

Featuring a 120° dispersion pattern,

the 6.5-inch VXH6 has a peak power handling of 300W and is designed for use where the speakers are to be suspended at a relatively low level. The eight-inch VXH8 has a narrower dispersion pattern of 75° and a higher peak power output of 360W, for higher suspended positions. You can mix and match both models, as well as with other speakers in the comprehensive Yamaha range, to achieve the best sound and coverage for any application.

Weighing just 5.7kg and 7.2kg respectively, The VXH6 and VXH8 support high and low impedance connections, while the speaker wattage can be easily switched even after installation, thanks to the straightforward tap selector. This minimizes the need for additional units, letting you design systems to precisely meet the needs of a space.

VXH series speakers are IP45-rated for use in a wide range of environments, including outdoors, and are supplied with a Gripple suspension hardware and wire kit for easy, safe height adjustment during installation.

The enclosures feature a pleasing ergonomic, low impact design, the compact circular shape making them less visibly intrusive from below. Both models are supplied in either black or white finish, the magnetic speaker grille

has a contoured profile and is paintable to match any interior décor.

Both models can be used to create bespoke installations for a wide range of spaces, from the high open structure ceilings of warehouse stores and distribution centers to spaces with sloped ceilings like amusement facilities, gymnastic halls and design-conscious environments like clothing stores, larger restaurants and more.

"We are very pleased to announce the addition of VXH series speakers to our acclaimed Commercial Installation Solutions lineup," says **Thomas Hemery**, General Manager, Yamaha Pro Audio Marketing and Sales Department.

"Over the years we have progressively expanded our speaker ranges to satisfy a wide variety of applications and aesthetics. Although we have received very positive reviews for our extensive lineup of products, high quality pendant speakers have always been a much-requested addition. The VXH series fills a gap in our range that means Yamaha speakers can be used in system designs for large spaces and open structures with high or sloped ceilings, which have been difficult to satisfy in the past, while embodying the philosophies of quality and reliability that we stand for," said Thomas.



The ergonomic designed IP45-rated VXH series speakers are engineered for optimum background music and voice reproduction

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BOSE PRESENTS VB-S ALL-IN-ONE USB CONFERENCING VIDEOBAR FOR SMALLER WORKPLACES

Bose Professional has announced the **Bose Videobar VB-S all-in-one USB conferencing** device. Delivering video and audio to meeting booths, huddle spaces and rooms up to 10 x 10 feet (3 x 3 meters), the conferencing device is compact and so simple to use, it can be set up between meetings — creating an experience so engaging and clear, you can read the room from across the globe.

Contained within the elegant, low-profile design is Bose engineering that allows the Bose Videobar VB-S loudspeaker, microphones, and electronics to be housed closely together while delivering stunning performance without interference. The included option of either a table stand, or wall-mount kit keeps meeting spaces orderly and clutter free and makes installation simple.

The four beam-steering microphones actively focus on voices in the room, while exclusion zones help to reject unwanted sound and auto EQ delivers optimized audio to all participants. A 4K ultra-HD camera offers a wide field of view,



Videobar VB-S features a four beam-steering microphones with an auto EQ for optimization

ensuring that meeting participants can communicate and be seen more clearly. Its Auto-framing Mode is ideal for groups as it keeps in-room participants in view, enabling remote participants to follow conversations while understanding content on whiteboards, flipcharts, or other in-room objects. For the single presenter, the Follow-me Mode frames and dynamically follows the person, making it ideal for teachers or anyone leading training sessions or group discussions.

The Bose Videobar VB-S works across popular third-party cloud conferencing services including Microsoft Teams, Zoom and Google Meet, delivering enhanced video and audio performance to key unified communication platforms.

This means users can seamlessly join conference calls regardless of platform and collaborate with remote colleagues from anywhere and not miss a thing.

"The newest addition to the Bose Videobar family increases the locations where companies can ensure Bose quality and innovation to support their meeting needs," commented **Martin Bodley**, Director and Global Head of Bose Work for Bose Professional. "The Videobar VB-S is perfect for addressing those vital smaller spaces where IT managers are challenged to find the right solution that's transparent and ensures meeting experiences are clear and employees feel connected."

The Bose Videobar VB-S is easily configured with the Bose Work Config-

uration software for fast initial setup. It is available either as an app or via web browser and enables users to manage their devices remotely. The Bose Work Management software provides device status and control of critical functions for a single-device or all the devices enterprise-wide. Through the Bose Work mobile app, users can adjust device settings in real time from a smartphone — including volume, mute, pan, tilt, zoom, preset control and Bluetooth pairing. So, whether it's a single unit installed in one meeting area to thousands of units installed in conference rooms around the world, it is simple to deploy and manage the Bose Videobar VB-S from anywhere.

BARCO CLICKSHARE ANNOUNCES SMART MEETING FLOWS FOR WIRELESS CONFERENCING

Barco, a provider in professional meeting room visualization and collaboration solutions, announces a major software update to its **ClickShare** product range that includes smart meeting flows for wireless conferencing. Taking ClickShare to the next level of simplicity, the software update introduces a set of features that make hosting hybrid meetings from the laptop a highly intuitive experience. No hassle, no stress. Barco has launched a simplified ClickShare user experience for Button and App that makes running hybrid meetings from the laptop as simple as making a phone call. ClickShare answers the call for more meeting inclusion and brings more confidence to meeting hosts and users. Our intent-based technology makes meetings smarter and more intuitive, reducing stress for participants, solving four of the most frequently encountered hybrid meeting challenges: powering up the meeting room, connecting the laptop to room audio and video devices, joining a meeting from a calendar, and keeping

track of contents and people while hosting a hybrid meeting from the meeting room.

ClickShare smart meeting flows feature **PresentSense**, **HostFlow**, **One-Click-Join** and **ConferenceView** to fully automate and enrich the meeting flow for users in the room, making any hybrid meeting a highly intuitive, stress-free experience. As users walk into the meeting room with their laptop, ClickShare automatically connects to the meeting room using the PresentSense ultrasound proximity detection. With HostFlow users can start a conference from their laptop with ease, as the ClickShare App automatically guides them as meeting host or participant. And with just a single click (One-Click-Join), users can start the meeting from their personal calendar.

The new ConferenceView can host the meeting from the laptop, share your presentation and keep track of both contents and participants' video on the meeting room display, side by side, without the need for a dual-screen



Barco simplifies ClickShare user experience to automate and enrich hybrid meetings meeting flow

setup. The meeting host can choose to share full screen or just an application window, while keeping your laptop screen private for note taking. Bring Your Own Device friendly and enjoys the flexibility to work.

Barco enriches integration capabilities for ClickShare with digital signage,

offering companies an easy-to-use and affordable solution to broadcast general or customized information to guests and employees in the workplace such as welcome messages, news, social feeds, customized and branded content. Click-

(Continued on page 73)

ROE VISUAL BP2V2 FEATURES ON MUSHANG XR STAGE

Mushang Brings Virtual Production to Shanghai

MuShang has developed an XR space in Shanghai, equipped with cutting-edge technologies. These include ROE Visual Black Pearl panels, Brompton Technology LED processing, Mark Roberts Motion Control cinebots, Unreal Engine, and disguise media server hardware. The stage is now available for creative and high-quality virtual production content, bringing lifelike visuals and unforgettable experiences.

Shanghai-based MuShang Advertising Co., Ltd. is dedicated to enhancing

customer experiences in advertising, photography, film and television production, etc. With over ten years of experience in those areas, the company has built solid relationships with clients, offering better shooting solutions to satisfy their needs and attain marketing goals.

The recently developed MUSHANG XR STAGE marks a further step forward in the virtual production area. The stage utilizes industry-leading products, featuring a large LED canvas composed

of ROE Visual Black Pearl BP2V2 panels driven by two Brompton 4K Tessera SX40 LED processors. Disguise vx4, vx2, and rxll servers running Unreal Engine are also part of the setup, with Mark Roberts Motion Control high-speed cinebots completing this array of game-changing production equipment.

The high frame- and refresh rates and low scan lines make the BP2V2 LEDs perfect for this application. The main wall measures 5 meters high by 12 meters wide and delivers stunning visuals

and excellent in-camera performance. As an integral part of the full-functional setup, the screen works with all other state-of-the-art technologies, allowing users to achieve a complete virtual production solution.

Watch the video below to find out more about the stage. <https://youtu.be/IMklZsRIVsU>

"With the increasing use of virtual production technology worldwide, we also see a growing demand in Shanghai. We want to provide the best possible technology to facilitate content production in our region," states **Henry Sha**, the Founder of Shanghai MuShang Ad CO., Ltd. "ROE Visual's Black Pearl BP2V2 is the premier choice in this type of display solution. The screens are perfect for TV & Film projects, advertising, and other types of creative shooting. The LED panels deliver aesthetic visuals matching our clients' high expectations."

"Bringing our LED innovations to the MUSHANG XR STAGE offers a great chance for us to support the development of virtual production in Shanghai. It's such an exciting experience to take part in this advanced setup. We can't wait to see more future projects shot on the stage," states **Grace Kuo**, Sales Director of ROE Visual.



XR space, equipped with ROE Visual Black Pearl panels, Brompton Technology LED processing, Mark Roberts Motion Control cinebots, Unreal Engine, and disguise media server hardware.

ATLONA LAUNCHES INTERACTIVE LIVESTREAM SERIES

Series premiere of "The Hub" debuts August 23 with an episode focused on AV control and management and enhanced with a live chat feature

Atlona has announced a new interactive livestream series designed to bring AV professionals together worldwide for discussions on the past, present, and future of the AV industry. "The Hub" makes its debut on August 23rd at 10am Eastern Daylight Time with an episode focused on AV control and management. Hosted by Atlona Director of Marketing Garth Lobban, the episode will include three panelists whom viewers can interact with during the presentation via a live chat feature

on YouTube. The episode will also stream live on Atlona's Facebook and LinkedIn pages.

As Lobban explains, the general pur-



pose of The Hub is thought leadership and education from a customer perspective and will include discussions of

technologies used in AV projects from a system approach, not just a single black box. "By creating a forum that brings together integrators, consultants, end users and Atlona subject matter experts, we can create an environment where the viewer gains insight on the challenges and solutions that AV professionals address while implementing technology," he said. "The challenges we face on all continents are similar, but with some unique flavors. We see The Hub as a valuable learning experience where AV professionals globally can share concepts and examples."

Atlona has more episodes planned for the fall, with the next episode focusing

on how wireless presentation platforms are being implemented in the global corporate and education verticals.

"We are looking to have some fun with the platform, and develop a voice that will help us grow our audience with each episode," said Lobban. "That requires creating something that will resonate with viewers, engaging them through interaction and compelling panelists. The Hub will differentiate itself from similar initiatives by having the designers and end users provide most of the insights for the presentation, and then share ideas with our subject matter experts and viewers online. We intend to start conversations and let them run."

BARCO CLICKSHARE...

Share signage integration customers can maximize their meeting room technology investment and increase the ROI of their meeting spaces. Over the past weeks, digital signage partners Signage-

(Continued from page 72)

live, Seenspire and Korbyt have joined the ClickShare alliance program bringing additional integration capabilities.

"This spring we're taking a major leap. Every step of our design process

is focused on creating more flow, engagement, and interoperability for customers. With intuitive, automated meeting flows, we're helping customers address the challenges remote meeting participants face with inequality in hy-

brid meetings. New integration options for signage truly make ClickShare the most advanced agnostic room solution, bringing a superior TCO for a future proof, sustainable and smart workplace," **Michaël Vanderheeren** concludes.



A2K AUDO&AUX DEPLOYS TECH-SAVVY INFRASTRUCTURE AT MAYA FOR A PREMIUM NIGHTLIFE EXPERIENCE

When, **Vijay Ghattamaneni**, the owner of nightclub MAYA, located in Tito's Lane at Baga Beach, wanted to elevate their aural experience, he connected with A2K Audo&Aux to craft a comprehensive Acoustics system tailor-made for the club. Pune's technical solutions specialist A2K Audo&Aux seamlessly executed a state-of-the-art acoustic infrastructure that complimented the venue.

Aakash Sethi, Founder of A2K Audo&Aux, recounts, "Vijay Ghattamaneni got in touch with us via the Reference of **Sandeep Reddy** who is the owner of Chronicles in Vagator, where we had provided high-quality rental services in the last season. Ghattamaneni invited us to visit the site in its bare condition, and explained to us his vision for the kind of nightlife

venue he wanted to establish. With venues like Titos, Mambos, The White Goa, Cocktail dreams, The Pink Elephant etc already dominating the Tito's Lane strip – the brief for us was to ensure that MAYA had to be established as a venue that offered an experience unlike any other - from the lighting design to the LEDS and the sound and everything in between."

Acoustic Solution

Akash and his team of experts immediately commissioned an extensive analysis of the space, which brought to light key issues that needed immediate attention. As Akash reveals, "The venue sports a high ceiling of approx 16 feet, and after reviewing a basic plot of the location of the dancefloor, seating, bar and DJ console etc, we spotted that

two massive coulomb and a beam supporting the ceiling slab towards the end of the proposed dance floor section and the VIP section. When we ran a few tests to analyse the space, we found the RT time to be super high at 96. So before taking up the project, we knew it was imperative to commission a rather extensive acoustic treatment of the space, else even the best audio system



The VIP section of the club has been outfitted with 2 units of the high-performance CF-10 loudspeakers from CSC Audio, which is driven through a single unit of the ultra-efficient CSC Audio HPA 3602 amplifier.

wouldn't sound up to the mark."

After explaining this to Ghattamaneni and securing his permission to proceed with the necessary acoustic treatment for the space; Akash and his team collaborated with **Saint Gobain**, Sustainable Construction Solutions – to formulate a comprehensive, high-quality and efficient remedy spanning a total of over 3500 sq.ft to correct the acoustics of the space.

Detailing the solution, Akash informs, "In terms of the acoustic treatment, the team of specialists from Saint Gobain worked closely with our team to run simulations that gave us an exact understanding of the kind of solution the space needed. Based on the results of the simulation, we decided to first deflect all the four side walls by 110.5 mm, using 50mm of 32 density polyfill of 1000GSm; followed by a 46mm air gap with Gyprock Sixto perforated gypsum plasterboard with original company salt-water resistant special hardware channels, screws, studs, acoustic sealant, along with floor and ceiling sealants. The naked concrete ceiling is completely covered with a 24 density FR rated special cut diamond foam; and this comprehensive solution allowed us to ensure that the venue remains absolutely vibration-proof. The fact that we were able to achieve this mammoth task within an extremely tight time-frame of a few days is testimony to the dedication and determination of the combined efforts of team A2K Audio&Aux and team Saint Gobain – with a special vote of thanks to Saint Gobain's West Zone Manager **Pankaj Patel** for all his support in ensuring the entire logistics proceeded smoothly per plan."

Following the detailed acoustical treatment, team A2K Audio&Aux quickly outfitted the venue with an extremely formidable sound, light and LED infrastructure that was tailor-made to exactly meet the requirements of the space.

Lighting up Maya

The visual aura of MAYA as it stands today is thanks to an enchanting lighting, LED and SFX architecture put together by team A2K Audio&Aux, which comprises custom-made fixtures and products sourced from high-end OEM manufacturers.

Two plush LED walls of 3mm pitch from Quanli adorn the space, with each individual panel of the respective LED walls measuring 196mmx196mm seamlessly fitted onto an iron frame with magnetic feet. Not only does this arrangement affords a wall-deflection value of just 75mm thereby allowing for unparalleled viewing clarity, but it also provides for quick access to service the respective systems when needed. One LED wall system measuring 3m x 2m is outfitted at the main performance stage (DJ console), while the other measuring 4m x 1.5m is outfitted above the lavish bar section – with the entire LED infrastructure controlled through processing units from **Novastar** and powered through distribution supplies from **MeanWell**.

Additionally, team A2K Audio&Aux expertly commissioned a minimalistic trussing infrastructure within the venue to house the impactful lighting fixtures responsible for creating a visually mesmerizing ambience within the club. The venue is Loaded with 24 units of

mini-20 watt LED Moving Heads spread across the venue to evenly fill the space with colour and pomp, while 8 units of **10R sharpies** and 4 units of 1000 watts **LED colour washes** dish out the main high-energy club lighting design. Alongside this, the team have also installed **2m strips of Red Laser Battens** (total of 4 units with 6 heads each) on either side of the LED Wall at the main performance stage to afford a swiping effect, while 2 units of the Laser Battens have been installed diagonally on to the truss on either side to cover the entire venue with a similar swiping effect.

The visual extravaganza is further enhanced with a flurry of high-performance custom **designed SFX gear**, as a total of 6 units of CO2 jets afford a concert feel (2 units flanking the DJ console firing up towards the ceiling, two units installed at ceiling level firing downward into the crowd, and two units installed onto the far-end of the club firing into the crowd); while two units each of smoke machine and haze machines add to the visual grandeur of the visual spectacle that patrons carry home as cherished memories. Additionally, the venue also has quick access to 4 units of cold pyro guns and a tri-nozzle confetti gun supplied by A2K Audio&Aux, which comes into full effect especially during celebratory events. And rounding off the clubbing experience that MAYA offers to its patrons is the impeccable audio system that's responsible for the immersive sound experience that has won the hearts and ears of patrons and performing artists alike – with the venue having hosted dance music big-wigs like DJ Akhtar, DJ Akhil Talreja, DJ Vaggy and several

more; each to sold out capacity events.

Audio Infrastructure

Considered as the USP of the venue, the audio infrastructure at MAYA comprises a bespoke system. The main PA comprises a horn-loaded system of custom designed loudspeakers by A2K Audio&Aux that features dual LF drivers from B&C along with a co-axial 1.5inch MF and HF driver horn from BMS Germany. Custom designed subwoofers featuring dual 18inch drivers from Precision Devices complement the horn-loaded loudspeakers to create a deftly impactful and true high-quality soundscape within the club; with the main PA system powered through multiple units of the legendary L2400 power amplifiers from Dynacord with a damping factor > 3000, thereby offering ample headroom and the capability to drive the system at higher volumes without compromising on clarity.

Additionally, the VIP section of the club has been outfitted with 2 units of the high-performance CF-10 loudspeakers from CSC Audio, which is driven through a single unit of the ultra-efficient CSC Audio HPA 3602 amplifier. And completing the system - A2K Audio&Aux have chosen a dynamic ethernet enabled MS26 96Khz DSP from CSC Audio to control and manage the entire loudspeaker system.

Speaking about the experience of working on the project, Akash summarizes, "We were given a total of eight days to work this project from inception to delivery; and the fact that we commissioned such a high-quality job including the acoustic treatment and the eventual integration and precise programming of all the equipment in an extremely tight time-frame of just 6 days is truly an achievement that we not only cherish but also celebrate. Our team of dedicated experts and professionals worked 13 hour shifts around the clock to make sure we delivered true on our promises well before the deadline. Of course, we had a great deal of support from our partners at Saint Gobain and also the OEM manufacturers who not only ensured that the respective systems and solutions were custom designed, but also delivered precisely in time. Last but certainly not the least, a big thank you to Ghattamaneni for his faith and confidence in our capability to deliver, and for supporting our team throughout the process. In fact, Ghattamaneni and his team have been so impressed by our work, that he's insisted that A2K Audio&Aux take up regular maintenance of his other properties in Goa, and also work on projects lined up for the future. There can't be any bigger compliment than that for us!"

What to expect from **NEC** at InfoComm India 2022

*Joining PALM AV-ICN for a quick interview is **Krishna Tripathi**, General Manager, Display Solutions, NEC Corporation India Private Limited, wherein he elaborates on the exciting products attendees will be able to witness at the NEC Booth E20 at InfoComm India*



NEC has been recognized in the Top 100 Global Innovators list, for eight consecutive years and included in FORTUNE GLOBAL 500. Can you tell us a bit about NEC display technology; what makes your products unique?

NEC carries a long and rich history of more than 100 years in the electronics industry. NEC display products are equipped with the latest world class technology and is way ahead of its competitors, when we talk about quality and reliability. NEC display has a large portfolio of products i.e. large professional displays for all verticals, direct view LED, video wall displays, laser projectors, digital cinema etc. Most of them are designed for 24x7 working environment, dust proof with filter free design, multiple connectivity, and option slots.

The company is participating at Infocomm 2022. What should people expect from the NEC booth at the expo?

At Infocomm 2022, audience is going to experience NEC technology live and witness the performance that we have talked about.

What is the highlight product at the booth? Can you please elaborate on it?

The key highlights are DVLED 110" video wall and 110" LCD video wall with hiperwall. Both are having immense pos-

sibilities for digital signage, control room solutions and promotional activities. We have a laser projector of 8000 lumens with attractive features and WD551, MS certified meeting room solution.

What kind of audience and industry segments are you expecting to target through your presence at the expo?

Apart from AV professionals, we are looking for audience from all industries,

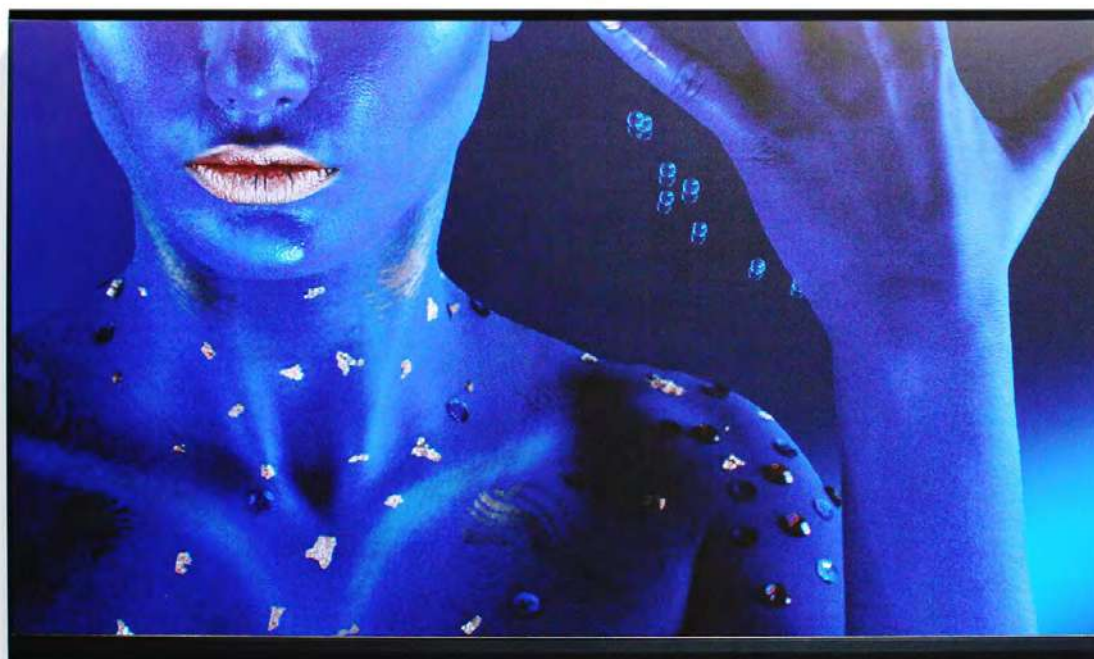
looking for control room, digital signage, meeting room; campus; auditorium and other solutions.

What is your growth strategy for NEC in India for the next 5 years?

We will target the premium segment enterprise customers, corporates, and the public sector for their requirements with appropriate solutions. Will convince them to consider TCO instead to

go with the price tag. Also, our products are highly reliable with a failure rate of < 0.7% & environment friendly with low carbon emissions which will be ZERO by 2030.

We are working to strengthen distribution Channel and market coverage and penetration across the region for better availability and serviceability of NEC display Solution Products.



The key highlights at the NEC booth at Infocomm is the DVLED 110" video wall and 110" LCD video wall with hiperwall

HARMAN PROFESSIONAL SOLUTIONS REINFORCES IMPORTANCE OF INDIA PARTNER NETWORK TOWARDS GLOBAL GROWTH

Senior leadership from **HARMAN Professional Solutions** leadership came together with its valued India partners on July 19 to share plans for the future and to emphasize the partners' critical role in contributing to HARMAN's global growth.

HARMAN Professional Solutions

for some of the most recognizable and respected entertainment and enterprise projects in India.

This was the first partner meet since **G Amar Subash**, Vice President & General Manager, APAC & India, HARMAN Professional Solutions, joined HARMAN in April 2022. The partner meet was

JBL Professional for loudspeakers, AKG headphones and microphones, AMX for video control and Martin lighting for stage and architecture.

"Our partners are the backbone for our success in the India market, and I could not be prouder to have this group of committed people who not

porate headquarters in the US was **Jaime Albors**, Senior Vice President, Global Sales, HARMAN Professional Solutions. Albors reinforced the importance of India towards HARMAN's global success.

"India has always been a key growth market for HARMAN and we strive to keep the brand expanding here. We're grateful to our partners for upholding the brand reputation to a standard of excellence in the Indian market and to maintain utmost confidence for our customer base as well. We've also made sure that our sales strategy roadmap for India is aligned with our global roadmap," said Jaime Albors.

The event was also attended by **Andy Flint**, Senior Vice President, Global Product Development, Professional Solutions who shared the business unit's high-level global product roadmap aligning with HARMAN's global strategy.

"India's economic growth is creating more opportunity to integrate our products into projects whether it be for the enterprise or entertainment market, therefore increasing demand for the highest standard of product development and reliability. India is a diverse marketplace and HARMAN is proud to have developed products to complement what our Indian customers require and that we have a strong partner network with the knowledge of the marketplace to satisfy that demand," said Flint. "The dialog we have with partners enhances our product plans for the future and for that we are very appreciative."



More than 70 prominent partners from India congregated for HARMAN Professional Solutions partner meet

is a strategic business unit of HARMAN International, a Samsung company, and is one of the largest providers of professional audio, video, lighting and control products and technologies in the world. HARMAN Professional Solutions products have been the core audio, video or lighting system solution

attended by more than 70 prominent partners from India, showcasing HARMAN's global commitment towards the Indian market and focus on the region as a key market for growth. Amar briefed the partners on HARMAN's focus on delivering technology forward products throughout the Professional Solutions portfolio of brands that includes

only understand their customers' needs but know how our product portfolio fits into those needs," said Amar Subash. "I'm more than thrilled to have spent this time talking with our partners and also learning from their feedback which only strengthens our ability to serve this market."

Attending the partner meet from cor-

SURGEX ANNOUNCES GENERATION AV AS SALES AGENCY FOR APAC

SurgeX has appointed **Generation AV** as its sales agency in the Asia Pacific region. The agreement will see SurgeX enhance its presence in the region, with Generation AV staff based in Asia providing a full service – encompassing sales, training and technical support for the brand in pro audio, residential and pro AV markets.

"We're very happy to be working with Generation AV, which has the specialist expertise and regional market understanding that we need to help grow our presence in APAC," said **Justin Peyton**, Director of Sales EMEA & APAC at SurgeX. "Generation AV has an excellent record of delivering for brands, and we're excited to work with

them to further establish ourselves in this territory with our extensive range of power management solutions. This deal will also be of huge benefit to our existing partners in the region, who will now have access to a team able to provide local specialist support, without needing to overcome time zone differences by liaising with our team members from farther afield in the UK or the US."

Singapore-based Generation AV has team members in Singapore, Philip-

pines and India. Its staff has decades of market experience in the AV industry from across the diverse territory. It will support SurgeX's entire surge elimination and UPS product range.

"It's exciting to be working with SurgeX, and we greatly value the trust they have placed in us to provide real-time support in APAC," said **David McKinney**, Managing Director, Generation AV. "SurgeX is a strong and complementary addition to our portfolio of leading brands."



CHAMSYS JOINS STAGEMIX PARTNERSHIP

PALM expo was an exciting event for **ChamSys**, not only due to the enthusiastic reception its award-winning line of lighting consoles received, but also because the May show marked a new chapter for the company in India, as it worked the show with its recently appointed dealer, **StageMix**.

"We are extremely happy to welcome StageMix as our Indian dealer," said **Aziz Adilkhodjaev**, ChamSys' International Business Development Manager. "Given the recent surge of interest in our products, we've been looking for a partner with the passion for growth that could help us seize opportunities in front of us. We're confident we found that partner in StageMix."

Nitesh Narayan, from StageMix is equally optimistic about future growth. "This is a wonderful opportunity for our company," he said. "Chamsys has great products with a lot of features and functionality that are not readily found elsewhere. We got some very positive feedback from senior lighting designers who had used Chamsys abroad. Our team is committed to providing top notch support to our customers, so we share this philosophy with Chamsys, which already has a great platform with online training videos,



Karan Nagpal, Director - Sonotone (3rd from left), Alessio Foti, Global Business Development Manager at Adam Hall Group (4th from left), Aziz Adilkhodjaev, ChamSys' International Business Development Manager (centre) and Nitesh Narayan, Product & Sales Manager at StageMix Technologies LLP (3rd from right) along with other members of the StageMix team at PALM expo 2022

webinars, and training sessions."

StageMix wasted no time in putting this service and training driven philosophy to work. As a run up to the **PALM expo**, the company conducted seminars in Bangalore and Mumbai, which attracted more than 60 lighting designers, programmers, and directors over a three-day period.

"Many of the guests at our seminars were experiencing the Chamsys MagicQ and QuickQ consoles for the first time,"

said Narayan. "They were blown away with the powerful lighting control features, shape generators, full lighting visualisation, pixel mapping, \ HD media playback, and other features."

"Our stand at PALM expo was very busy," said Adilkhodjaev. "Visitors were clearly impressed by how the MagicQ products are easy to learn and use."

For its part, StageMix is eager to emphasize these attributes in its market development efforts. "As part of our

promotion plan, we will be conducting regular in-person training for theatre and concert lighting professionals as well as sending out our demo boards on shows so that everyone can get their hands on the powerful features of Chamsys,"

With enthusiasm like this, it's easy to understand why ChamSys and StageMix are both looking forward so excitedly to a bright future in India.

NEUMANN AND MERGING TECHNOLOGIES JOIN FORCES

German studio specialist **Neumann. Berlin** and Swiss company **Merging Technologies** - one of the world's leading manufacturers of high-resolution digital audio recording systems - will now be working together under the umbrella of the Sennheiser group. Sennheiser has taken over the shares of Merging Technologies entirely. With this step, Neumann.Berlin will enlarge its range of high-quality audio solutions.

With its legendary microphones, monitors, and headphones, Neumann. Berlin is regarded worldwide as a reference not only by professional users - such as recording studios and broadcasters - but also by semi-professional customers. Neumann solutions stand not only for reliability and lasting value, but also for the ultimate in sound quality. Neumann is continuing to build on this strong position and is now strategically expanding its product range. The integration with Merging Technologies

is part of Neumann's growth strategy.

"We plan to strengthen Neumann's offering, particularly in the area of digital workstreams, in order to provide customers with holistic audio solutions in studio quality. Merging Technologies' products and solutions are an excellent complement to the Neumann product portfolio," says **Ralf Oehl**, CEO of Georg Neumann GmbH.

Merging Technologies is a world leading supplier of AD/DA solutions, digital audio workstations, as well as a pioneer in software development to support the AES67 standard.

The existing portfolio of the two companies will remain unchanged. The first joint product of the partnership between Neumann.Berlin and Merging Technologies will be a Neumann audio interface that enables the perfect integration of Neumann products into a digital infrastructure.

Merging Technologies will become



left to right: Ralf Oehl, CEO Georg Neumann GmbH, Dr. Andreas Sennheiser, Co-CEO Sennheiser, Claude Cellier, CEO Merging Technologies

part of the Sennheiser Group through the strategic partnership. Its team of around 20 people will continue to be located at the company's site in Puidoux, Switzerland, but will work closely with the Neumann team in Berlin; the companies see potential for new joint collaborations, particularly in the area of development and innovation.

"We are very pleased to welcome Merging's employees to the Sennheiser Group," said **Andreas Sennheiser**, Co-CEO of the Sennheiser Group. "As a family-owned company, we want to grow sustainably on the strength of our own resources in the coming years. To achieve this, we are investing significantly in our professional business."

EFFECTIVE 1 JULY 2022, BROADCAST SOLUTIONS GMBH ANNOUNCES ACQUISITION OF THE SYSTEM INTEGRATION DIVISION OF THUM + MAHR GMBH

After more than 40 years of successful activity, the managing partners of Thum + Mahr GmbH, **Peter Thum** and **Hanno Mahr**, have decided to continue the system integration division in the future under the umbrella of the Broadcast Solutions Group. Thum + Mahr GmbH will continue at the Monheim am Rhein location as an independent subsidiary of the Broadcast Solutions Group with an existing experienced team of 18 employees. Peter Thum and Hanno Mahr, with their many years of experience, will continue to support the company as advisors. **Stefan Mertens**, who has also been Managing Director of Thum + Mahr GmbH since 2004, will continue to manage the business of Thum + Mahr GmbH as COO. **Stefan Breder**, CEO of the Broadcast Solutions Group, will act as CEO of Thum + Mahr GmbH.

"I am very much looking forward to further developing Thum + Mahr GmbH in my new function and the new constellation. I am sure that the cooperation of both companies will only positively affect our customers. Together we can act more flexibly and more strongly on the market and respond even more



Wladislaw Grabowski and Stefan Breder from Broadcast Solutions with Hanno Mahr and Peter Thum from Thum + Mahr.

individually to our customers' needs," says Stefan Mertens, COO of Thum + Mahr GmbH.

"With Thum + Mahr GmbH, we welcome an experienced team under the umbrella of Broadcast Solutions GmbH; this has many advantages. The fields of activity of both companies

complement each other perfectly. Thus, we can jointly push our activities in the German-speaking region and the international field," says Stefan Breder, CEO of the Broadcast Solutions Group.

The now agreed cooperation between Thum + Mahr GmbH and the Broadcast Solutions Group will result

in far-reaching positive synergy effects from which the customers of both companies will benefit. The realignment aims to offer them even better services and also to be able to handle larger projects smoothly. In addition, the declared plan is also to open up new customer groups with the merger.

PRO INTEGRATION FUTURE ASIA EXPO 2023, FOR AUDIO, VIDEO AND LIGHTING (AVL) INDUSTRY TO DEBUT IN S.E. ASIA IN 2023

In partnership with Montgomery Asia, **The Professional Audio Visual & Lighting Integration Association (AVLIAS)** announced the inaugural edition of **Pro Integration Future Asia 2023 (PIFA 2023)** from **26 - 28 June 2023** at the **Marina Bay Sands Expo & Convention Centre**.

PIFA 2023 is a dedicated business gathering specially curated for commercial Audio, Video and Lighting (AVL) manufacturers, suppliers

and the Association of Independent Producers Singapore (AIPRO). PIFA 2023 is expected to draw more than 6,000 visitors over the 3 days to view the 100s of international brands present displaying their latest Audio-Visual Technologies including Digital Signage, Displays, LED, Projections, Studio Production, Stage Lighting Fixtures, Immersive Technologies, Presentation Systems and Smart Homes & Building gadgets, just to name a few.

exhibition will be supported by a series of industry conference and technical workshops across 6 key verticals namely, unified communications & collaborations, digital signage & out of home (OOH) media, parks & attractions, stage & mega events, production & immersive technologies and smart homes & buildings.

Supported by Singapore Tourism Board and Industry Associations including the Association of Electronic

and specialists to harness their AVL knowledge & technologies to sell real-world applications and solutions to multiple vertical markets in the Southeast Asia region. Focusing on the central theme **"Accelerating the Digital Transformation - Work, Education and Entertainment"**, the inaugural mega

Industries in Singapore (AEIS), Singapore Association for Private Education (SAPE), Singapore Photographic & Digital Imaging Trade Association (SPDA), Association of Small and Medium Enterprises (ASME), Association of Singapore Attractions (ASA), Singapore Industrial Automation Association (SIAA), Security Systems Association Singapore (SSAS)

pletely different and extraordinary experiences by accelerating digital transformation in your businesses."

Jackson Yeoh, Executive Director of Professional AudioVisual & Lighting Integration Association (AVLIAS) says, "More than 90% of the world's renowned AudioVisual and Lighting brand suppliers has either a subsidiary office or regional distributor in Singapore which looks after the channel distributions, installations, rental and staging markets surrounding our country. As business travel continues to normalise and S.E. Asian economies recover, the surge in demand for AVL equipment will be naturally directed back to Singapore head offices for both equipment supply and technical support. This is a unique business characteristic which cannot be ignored for our industry, and this is why Singapore has been identified as the chosen strategic location for PIFA 2023."

PRO INTEGRATION FUTURE ASIA 2023

PROLIGHTS EXPANDS FRESNEL RANGE WITH VARIABLE WHITE FIXTURES

PROLIGHTS expands its EclFresnel range with four new variable white variants. This includes the MINI, with a 60W LED engine and a 100mm lens, JUNIOR, with a 150W engine and a 150mm front lens, the 1K Fresnel with a 250W source and a 200mm front lens and finally, the 2K Fresnel, with a 500W LED source and a 250mm lens.

The variable white series include a CCT range between 2,700K to 5,600K, rendering skin-tones naturally whilst delivering a clean light beam and smooth fades between

warm white to cool white. Because these are variable white only fixtures, users get an incredibly bright beam across the entire zoom range, whilst keeping high CRI, TLCI and TM30 values.

The EclFresnel range are the perfect fixtures for high-demanding jobs like theatre and broadcast. There are many accessories for these units, including an eight-leaf barndoor and a 28mm TV-spigot that ship with these units. There are also dedicated pole-operated yokes available for all variants of the fresnels.

The units are packed with the latest

technology like 16-bit smooth dimming and adjustable PWM, colour temperature presets and much more. And just like the fixed white or full colour series, the EclFresnel VW range is also available in a white housing for concert halls and multi-functional venues.

The EclFresnel range fixtures for high-demanding jobs like theatre and broadcast



ASTERA UNVEILS HYDRAPANEL FEATURING TITAN LED ENGINE

Astera launches ingenious wireless LED lighting product – the **HydraPanel** with Titan LED engine.

The HydraPanel with a beam-shaper module, magnetic mounting, and Titan LED engine's colour mixing, dimming characteristics. The neat six-pixel product weighs 600g and has an inbuilt battery and wireless DMX module making it ultimately flexible and useable anywhere. It can also be run fully wired.

It is IP65 rated in both wired & wireless scenarios so it can be used outdoors or in damp or otherwise challenging atmospheric conditions.

Each HydraPanel emits 1300 Lumens of high-quality light giving 515 Lux at one meter (without filter) and a high CRI and TLCI. Accessories include a ConnectorPlate which connects two HydraPanels together, and up to four panels can be joined using three ConnectorPlates to create a medium size panel that is still very compact, lightweight, and

highly manoeuvrable.

The HydraPanel is IP65 rated in both wired & wireless scenarios so it can be used outdoors or in damp or otherwise challenging atmospheric conditions. Uses will include key for lighting people as well as illumination of more substantial areas such as stages, scenery, and buildings. Larger Arrays of HydraPanels can be used as a low-resolution screen / video effect, and the products look fabulous on camera, either highlighting people and objects or as cool back-of-camera fill. This is ideal for building bigger and more dramatic effects for stages, festivals, and events. Once arrayed, IR communication between HydraPanels enable multiple units to be controlled from a single console or controller for continuity of parameters like colour, brightness, etc. The fixture's display includes dedicated colour and brightness buttons for swift, accurate adjustment, and new 'TouchSliders' for



The HydraPanel is IP65 rated in both wired & wireless scenarios for outdoors or in damp or otherwise challenging atmospheric conditions.

tweaking these vital settings. For quick and easy rigging, the back side of the fixture is magnetic and can be deployed without needing any other mounting accessories. For quick and easy rigging, the back side of the fixture is magnetic and can be deployed without needing any other mounting accessories.

The units look unobtrusive when

ensconced as set 'practicals', and with scenic lighting and adaptability in mind, six beam modifiers are also available to adjust the HydraPanel's native 110° x 100° beam.

These include DiffuserSheet 100 which gives a soft light and 100° beam angle without increasing its height.

GRANDMA3 SOFTWARE RELEASE VERSION 1.8 OUT NOW!

MA Lighting has now released the **grandMA3 software version 1.8**. In a very short release cycle MA presents massive workflow improvements and new functionalities in the following areas:

- New workflow for symmetrical movements
- Selection Grid tools
- Multipatch
- Additional Store modes
- Reworked Update menu

In addition, lots of already existing features are taken to the next level. The DMX tester gets encoder bar control and the entire grandMA3 system can

be set up offline with the help of device configurations. XYZ programming gets more powerful than it ever was. grandMA3 version 1.8 introduces the possibility of fading between MARKERS and even between XYZ and Pan/Tilt positions in the same sequence.

The manual cue mode in the Content Sheet and the reworked LUA editor are just some more examples of a big variety of new features and functionalities.

The complete list of features and enhancements is documented in the release notes and under: www.malighting.com/grandMA3-software.



CITY THEATRICAL LAUNCHES QOLORFLEX NUNEON, TUNABLE WHITE HIQ HIGH CRI LINEAR LIGHTING FOR FILM AND VIDEO

City Theatrical is expanding its line of QolorFLEX LED Tape and Accessories with a ninth type of **QolorFLEX NuNeon**, which brings the brightness and flexibility of QolorFLEX NuNeon linear lighting to the film and video world by combining it with City Theatrical's HiQ High CRI LED Tape technology.

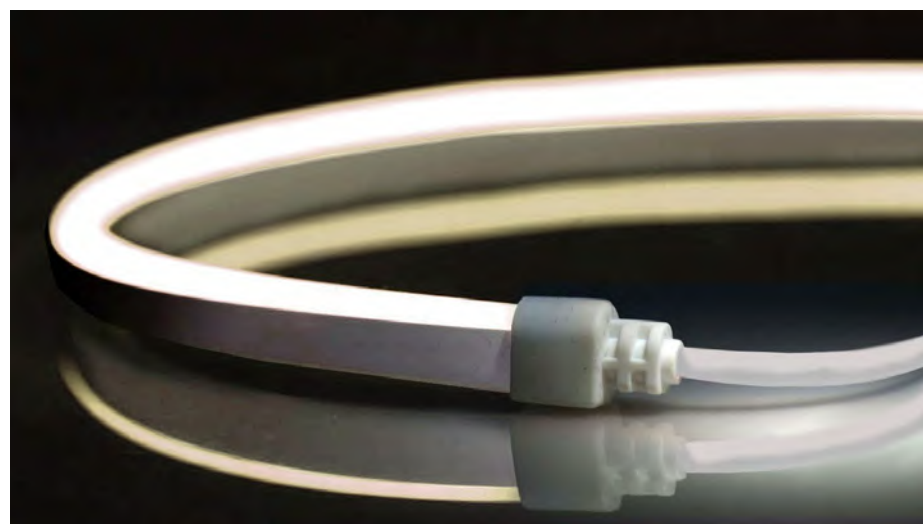
QolorFLEX NuNeon, Tunable White HiQ High CRI (P/N N914-H27006500-5) is a sealed LED linear product that is extremely flexible and IP67-rated for indoor or outdoor use. It offers exceptional on-camera color rendition with a Color Rendering Index (CRI) greater than 94, allowing lighting professionals to meet the needs of high-quality film and video lighting.

QolorFLEX NuNeon, Tunable White HiQ High CRI has a color temperature ranging from 2700 K to 6500 K, beam angle of 120°, brightness of 600 lm/m, power consumption of 70w/5m (4.27 w/ft), and density of 240 LEDs/m. QolorFLEX NuNeon, Tunable White HiQ High CRI is sold in 5m reels through City

Theatrical distributors worldwide, and is technology that is exclusive to City Theatrical.

Like all types of QolorFLEX NuNeon, QolorFLEX NuNeon, Tunable White HiQ High CRI is rugged, outdoor-rated, dimmable, can be cut to length, and offers nearly the same visual impact as traditional blown glass neon without the problematic issue of installation and maintenance. QolorFLEX NuNeon operates on 24VDC, can be powered and controlled by a variety of QolorFLEX Dimmers and power supplies for ultra-smooth, flicker-free dimming, and is ETL listed and CE and RoHS compliant.

To complement this new QolorFLEX NuNeon, Tunable White HiQ High CRI linear lighting, City Theatrical also offers four other QolorFLEX HiQ High CRI LED Tapes, in color temperatures that include 3200K, 6000K, and 2700K to 6500K in a single chip, as well as recently launched QolorFLEX 5-in-1 HiQ High CRI LED Tape (P/N 5050-24-RGBH27006500-60-5-20-1), which is a



City Theatrical QolorFLEX NuNeon Tunable White HiQ High CRI Linear Lighting

5-in-1 24V LED Tape with a CRI greater than 95 and is 25% brighter light than other 5-in-1 LED tapes for the needs of film and video projects.

Other new QolorFLEX products include recently launched Aluminum Extrusion, 45°, 2m (P/N 6693) which provides lighting professionals with more flexibility in LED tape installations,

such that they can easily mount and direct LED tape light at a 45-degree angle for cove lighting, wall washes, and foot lighting.

This expansion of the QolorFLEX NuNeon line aligns with City Theatrical's strategic direction to support film and video projects worldwide with innovative lighting accessories for film and video.

ADJ'S NEW HYDRO BEAM X12 IP65-RATED DEDICATED BEAM MOVING HEAD

ADJ has expanded its hydro series of IP65-rated moving heads. The new hydro beam x12 is a nimble fixture that outputs an intense, razor-sharp beam. It is ideal for generating aerial effects at concerts, tours, festivals, and dance events, and combines the punchy Philips platinum 12r LL MSD 6000-hour discharge lamp technology with a carefully curated selection of beam-shaping tools that include motorized focus and a dynamic 24-facet prism.

The Hydro Beam X12 combines the rugged IP65-rated exterior casing design that made the original ADJ Hydro Series fixtures popular with the light engine and optics that made ADJ's Vizi Beam 12RX an instant best-selling beam fixture. It directs the raw power of the Philips Platinum 12R LL MSD discharge lamp, with its impressive 6,000-hour life expectancy and 7800K cool white color temperature, through a high-quality optical system to create a piercing beam of light with a tight 2-degree beam angle. Delivering a huge output of up to 522,000 lux (measured at a 10m distance), the fixture is capable of firing its beam

across a vast distance, creating impressive aerial effects shooting right up into the night sky.

A 16-position (plus open) stamped metal GOBO wheel features a collection of break-apart patterns and simple shapes, including four beam reducers, which have been carefully chosen to allow the creation of engaging beam effects. The wheel offers bi-directional GOBO scrolling, as well as a GOBO shake effect. The fixture also offers motorized focus, with 16-bit fine control, which can be used to ensure projections are sharp or to deliberately blur out GOBO patterns to create more subtle effects. In addition, the fixture is equipped with a frost filter that can be used to generate a wash output.

The fixture features a separate color wheel, offering 14 dichroic filter options, including a mixture of vibrant primary colors as well as a selection of more subtle hues. It also

includes CTB (6000K) and CTO (3200K) color temperature correction options as well as a UV filter. The wheel offers bi-directional color scrolling as well as split colors utilizing adjacent filters.

A choice of two prism options complete the Hydro Beam X12's collection of beam-shaping tools, which can be used to multiply the output to create wider aerial projections. Both the 6-facet linear and 24-facet circular prism offer bidirectional rotation with variable speed, while the two prisms can also be overlaid, with different rotation speed and direction, to create complex diffracted beam patterns.

The fixture offers two DMX channel modes, 14 or 18, with the latter providing the addition of fine 16-bit control over pan, tilt, dimmer, and focus. DMX addressing, mode selection and configuration of the unit's various operating parameters is carried out using a menu-driven interface. This is displayed on a large, illuminated

LCD screen, located on the front panel of the fixture's base, together with four menu navigation push buttons. The Hydro Beam X12 also supports the RDM protocol, which allows for remote DMX addressing and the feeding back of fixture operating status information to a compatible DMX control solution. In addition, the fixture is equipped with a wireless transceiver compatible with ADJ's WiFLY EXR wireless DMX protocol, allowing it to receive a DMX signal wirelessly from a compatible WiFLY transmitter or another WiFLY-equipped fixture over a distance of up to 2500 ft. / 700m (line of sight).

Connection sockets are all located on the rear of the unit's base, each fitted with a rubber cap to provide protection during transit and when not in use. The DMX input and output are 5-pin, while locking power input and output sockets are also provided, allowing multiple fixtures to be connected to a single power outlet. Finally, a USB socket is also included to allow for quick and easy future firmware upgrades.



MAX KOPSHO JOINS CHRISTIE AS EVP OF BUSINESS DEVELOPMENT

Christie announced that industry veteran **Maxwell (Max) Kopsho** has joined the company as Executive Vice President of Business Development, responsible for supporting the commercialization and sales of Christie's advanced video processing and networkable content distribution solutions.

The appointment of Kopsho, effective immediately, sees him joining Christie's executive leadership working alongside EVP **Clark Williams** to focus on driving business and building key partnerships as Christie's advanced

video processing, network-based, and non-networked content distribution technologies continue to evolve.

Kopsho brings 35 years of experience in electro-optics, electronics, and information technology to Christie. His previous roles include the development of Christie's network solutions as a product manager, and successive roles in leadership and market development in the ProAV industry with a focus on executive leadership, sales, business development and training.

"Max's appointment is a pivotal step in our planned strategic growth in content distribution and video processing,"

says **Zoran Veselic**, President and CTO, Christie, "He will be a great addition to the leadership team."

"I am both honored and humbled to be working at Christie. This opportunity allows me to leverage my unique expertise and continue to grow my career at the company I have always thought of as 'home'," says Kopsho. "The entire Christie team shares the same passion and purpose for service in the AV/IT industry, and I look forward to working with Clark and his incredible team and being a part of the legacy of inspiration and innovation that is Christie."

Kopsho is based in Atlanta, Georgia.



Maxwell (Max) Kopsho, Executive Vice President

DTS ILLUMINAZIONE SRL ANNOUNCE NEW MANAGING DIRECTOR

Beginning 1st of July 2022 Italian lighting manufacturer **D.T.S. Illuminazione** issued a new organization chart, adding a general management position.

The Italian Company appointed **Carmen Savarese** as Managing Director with the aim to ensure an efficient and sustainable long-term growth worldwide.

Carmen Savarese has covered the role of International Sales Manager in DTS for the last 3 years. She joined the company from Tomcat USA Inc and Area Four Industries America, where she was Vice President Sales &



Carmen Savarese, Managing Director

Marketing.

Simone Francia, Executive Vice President D.T.S. Illuminazione, says, "The founding family, first and second generation, will still maintain the guide of this historical Italian company. **Dante Latteo** (the President) and myself, strongly believe that Carmen is the most skilled person to have in the Top Management team in this crucial moment for the growth of our family company. Carmen will have the full responsibility for the leadership and business development of DTS. She will play a key role in meeting the company's growth goals and will also be instru-

mental in consolidating our reputation among the industry key players."

"It will be through the specific skills acquired in my career and the support of a fantastic team, that I intend to improve the efficiency of the whole company. I'd like to confirm the will of the founders and current owners, which I strongly support, that the main production processes will stay in Italy. The core values of DTS have always been the family experience, the history and the passion of every single employee. I trust that everyone will support this renewal, first and foremost the founding family," concluded Carmen.

EXTRON ANNOUNCES PROMOTION OF JOE DA SILVA TO VICE PRESIDENT OF MARKETING

Extron has announced the promotion of **Joe da Silva** to the position of Vice President of Marketing. He will be responsible for setting worldwide marketing strategies in line with overall company objectives.

A 30-year veteran of the company, da Silva has overseen multiple departments at Extron, including Manufacturing Engineering, Quality Assurance, and Product Marketing. As Director of Product Marketing for the last ten years, he built the department into what it is today and

was responsible for establishing its direction and vision.

"Joe's contributions have had a significant impact on the growth of Extron over these 30 years," said **Andrew Edwards**, President of Extron. "With his outstanding leadership strengths, marketing expertise, and business savvy, he is the ideal choice to lead our marketing efforts into the future."

In addition, da Silva has been instrumental in the evolution of key Extron strategies related to Sales, Operations, and Marketing. In his new role, he will be responsible

for bringing the Marketing Team together to accomplish the company's initiatives and objectives for the future. With his comprehensive experience and unique skill set, he is well-equipped to drive successful results.

"I am pleased to congratulate Joe on this well-deserved promotion," said **Casey Hall**, Vice President of Worldwide Sales and Marketing for Extron. "His leadership on strategic initiatives has enabled us to bring products to market more efficiently and positioned us for continued success."



Joe da Silva, Vice President of Marketing

RADHAMOHAN RAJANI JOINS OPTOCORE AND BROAMAN'S TECHNICAL SUPPORT TEAM

Born and brought up in India, **RadhaMohan Rajani** is already a long-established user of Optocore solutions. After studying Visual Communications, he joined **Warren D'souza's** highly experienced Mumbai-based rental company, **Sound.com** in 2014, where he first started using Optocore devices on large stadium events and Opening/Closing Games ceremonies in which Sound.com specialises. In 2016 he relocated to Poland to work for Fotis Sound (another Optocore client) — working on festivals, tours and concert

set-up prior to the pandemic. In 2019 he underwent his full Optocore Certification Training (OCT) at company HQ in Munich. As a member of the Tech Support team, Rajani will focus on client communications and relations with a particular emphasis on building BroaMan's presence in the market. Speaking of his appointment, RadhaMohan Rajani says he was attracted to the position not only because of his familiarity with the products and the Optocore/BroaMan team members

"but also the prestige of both brands". He continued, "I am looking forward to increasing BroaMan's market presence and reputation by ensuring our clients' needs are well taken care of." Welcoming him to the company, BroaMan MD **Tine Helmle**, to whom he will report, says, "It is good to have someone with Mohan's experience who can hit the ground running. He will prove to be a valuable asset, in particular for BroaMan as we continue to build market profile."



RadhaMohan Rajani, Optocore

KEY DIGITAL APPOINTS ROBERT TAYLOR DIRECTOR OF DISTRIBUTION CHANNEL SALES

Award-winning developer and manufacturer of leading-edge digital video processing, video signal distribution, collaboration and communications solutions - Key Digital, announced the appointment of A/V industry sales veteran **Robert Taylor** to the position Director of Distribution Channel Sales. The announcement was made by **DeWayne Rains**, Key Digital Vice President of Sales, and underscores the company's ongoing growth. In his new position, Taylor will be responsible for leading and growing Key Digital's distribution business, both do-



mestically and abroad. Previously, Taylor held sales positions with manufacturers BIAMP Systems and TOA Electronics; served as regional manager for manufacturer's rep firm Southeastern Communications (SECOM); and ran his own design/installation firm, Audio Concepts. Taylor remarks, "I have followed Key Digital for many years, and I am honored to work with Mike Tsinberg, Father of the DVD and holder of over 40 high-definition video patents. And Key Digital's sales force is highly effective, as DeWayne Rains has built up a solid dealer base in the U.S. I am looking

forward to expanding our relationships in the U.S. and abroad, and I am excited to be on the leading edge of video technology." Rains noted, "We could not be more delighted to have Robert join the Key Digital family – completing a circle, as he actually introduced me to Key Digital more than a dozen years ago when I was an AV dealer and he was with our independent manufacturer's rep firm Southeastern Communications. Robert brings a wealth of knowledge and experience to Key Digital, and we look forward to his contributions to our expansion."

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