palm + AV-ICN

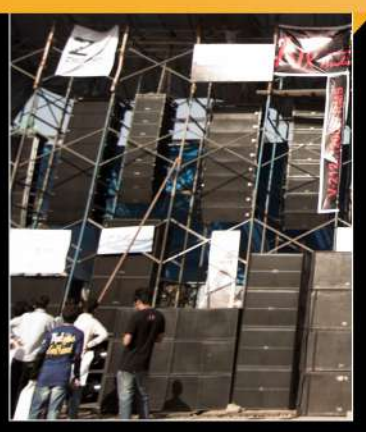
EXPO MAGAZINE

PRO AUDIO | STAGE | STUDIO | AV INTEGRATED SYSTEMS | BROADCAST | DISPLAY | LIGHTING

20 YEARS OF PALM

PERSPECTIVE – RISE OF INDIA'S PRO AUDIO INDUSTRY

PALM AV-ICN
***Preview* Issue**



Milind Raorane sets the tone at **ToyRoom Mumbai**

The CHORDFATHER Experience with Sunny M.R.
Neumann's first Studio Monitor Experience Center in Mumbai

MARCH-APRIL 2022

Hyve

7 SERIES | MASTER REFERENCE MONITORS

POWERED

JBL PROFESSIONAL by HARMAN

NEXT-GENERATION SYSTEMS FOR POST AND BROADCAST PRODUCTION IN CONTROL ROOMS AND TRUCKS

- NEXT-GENERATION JBL DRIVER TECHNOLOGY
- REVOLUTIONARY IMAGE CONTROL WAVEGUIDE
- INTEGRATED DUAL-AMPLIFICATION SYSTEM
- COMPREHENSIVE ROOM EQ CONTROLS
- COMPACT ENCLOSURES

To know more, call **1-800-208-8880**

AKG AMX BSS crown dbx DigiTech JBL COMMERCIAL JBL PROFESSIONAL lexicon Martin Soundcraft

harmanprofessionalindia@harman.com | pro.harman.com | in.jbl.com/professional | harmanaudio.in/professional

harmanproindiaofficial **harmanproindia** **harmanproindia** **Harman Professional India** **harmanproindia**

All product images shown are for illustration purpose only and may not be an exact representation of the product. Actual product may vary in colour, size and finishing. © 2022 HARMAN International Industries Inc. All rights reserved.

VMT

WAVESLIVE

Think a live gig will never sound as perfect as the studio?

Time to change your mind, without changing your budget.

eMOTION LV1

Live Mixing Console
Studio-Quality Sound

64 Channel eMotion LV1 system starts at **15.90L***. Visit **VMT Mumbai** for a hands-on demonstration.

Let us help you plan your system. Contact **Jeff Mandot** on **+91 865 786 4948** or **jeff@vardhaman.net**

vmt.in

PALM AV-ICN

CONTENT CHIEF
Anil Shiv Raj Chopra
achopra@palmexpo.in

CONTENT ANCHOR
Smita Rai
smita.rai@hyve.group
Mob: +91 9289368200

CONTENT MANAGER
Tamshil Choudhary
tamshil.choudhary@hyve.group
Mob: +91 9311378570

EDITORIAL CONTRIBUTOR
Abdul Waheed
CTS, Managing Director
Eyte Technologies Pvt. Ltd.
abdul@eyte.sg
Mob: +91 9702877087

GRAPHIC DESIGNERS
Lalita Tengle
lalita.tengle@hyve.group
Mob: +91 9311378569

Peter Pereira
peter.pereira@hyve.group
Mob: +91 9311378568

DISTRIBUTION
Komal Jadhav
komal.jadhav@hyve.group
Mob: +91 9311378566

CONTENT PRODUCTION & RESPONSE OFFICE
Hyve India Private Limited
(CIN no. U92490DL2004PTC124343)
5, Workafella,
AK Estate, Off Veer Savarkar Flyover,
Next to Radisson Blu Hotel, SV Road,
Goregaon (West), Mumbai – 400062.
Maharashtra, India.

Neumann monitors complement the Dolby Atmos Music Mix Room 7.1.4 configuration setup at Chordfather Productions.

Features

STUDIO INSTALL SHOWCASE
10 In conversation with **Sunny M.R.** on the collaboration of **Chordfather Productions** with **Neumann**.

INSTALL STORY: NIGHT CLUB
16 **Milind Raorane** deploys a comprehensive Sound and Audio design solution at **ToyRoom** Mumbai

ANNUAL PLANNER LAUNCH
57 PALM Expo Unveils the PALM AV-ICN Annual Calendar Project Planner, designed and conceptualized as a high purpose, high utility tool.

Show Preview

CERTIFICATION COURSE AT PALM AV-ICN 2022 (CAVS)
19 PALM AV-ICN is fully committed to galvanize professionalism with this three-day certification course to be conducted by, **Abdul Waheed**, Managing Director, EYTE Technologies Pvt. Ltd. and **Arif Patil**, Principal Consultant at EYTE Technologies Pvt. Ltd.

33 20 YEARS OF PALM: PERSPECTIVE - RISE OF INDIA'S PRO AUDIO INDUSTRY

PALM AV-ICN SUMMIT 2022
41 PALM AV-ICN - industry's premier forum engaging industry professionals on topics of technological advancements & latest trends in the industry at the Expo.

IRAA
44 IRAA AWARDS 2021- A Report on the 15th consecutive edition of Indian Recording Arts Academy Awards 2021. **IRAA 2021 Felicitation Ceremony and Open Forum** on **28th May 2022** at the **PALM Sound Light Summit – Conference & Seminar Programme platform.**

CONTENTS

8K by Marantz

Crystal clear video resolution that perfectly compliments the legendary Marantz sound

8K Ultra HD

AV8805A

Modern Musical Luxury

8K UHD HDR / HDCP 2.3 · Dolby Atmos · dts:X · Auro-3D · IMAX ENHANCED · Dolby VISION · HDR10+ · HDMI · HEOS BUILT-IN

works with alexa · works with Hey Google · JOSH · works with Apple AirPlay · Wi Fi CERTIFIED · Bluetooth · AUDYSSEY MULTEQ XT32 DYNAMIC VOLUME · AUDYSSEY LFC · Hi-Res Audio · roon tested · Spotify · pandora

amazon music · TIDAL · TUNE IN · iHeartRADIO · DEEZER · napster · SOUNDCLOUD · SiriusXM · isf ccc · App Store · Google Play · domotz · OVRC

marantz · Magnat HECO · Q ACOUSTICS · LOEWE · B·I·C AMERICA Top rated since 1973 · MISSION

episode · QED · OEHLBACH · bridge · LG · Optoma · ViewSonic See the difference

E-mail : info@mzaudiodistribution.co.in | al@mzaudiodistribution.co.in | Toll Free : 1800-209-7848

CONTENTS

News

06 Audio & Music Production

Presonus Expands Revelator Family; AHUJA Unveils AI-22 USB Audio Interface; L-Acoustics Updates L-ISA Studio 2.4 Software; Dear Reality Launches Stereo Production Bundle; Rode Introduces NTH-100 Headphones; UA Launches UAD Spark Plug-Ins.

13 Install

India's Hope Unlimited Church Uses Grandma3; Tricolor India Schauspiel Installs Projection Mapping at Statue of Equality; Ek's Tricaster Enables Hybrid Learning At Sanskrit University

24 Audio Visual

Christie Expands the GS Series; Kramer Launches Kds-7 AVOIP Streaming Solution; Optoma Unveils WUXGA Projector Series; Pure Resonance Audio Debuts S5 Surface Mount Speaker; Yamaha Unveils Adecia; Vuwall Presents PAK; Directout Releases 3rd Generation Andiamo Series; E6-N Pixel Screen From DMT.

30 Industry News

Chawla Movies Adds Digico Console to Its Inventory; Shure Welcomes New Senior Manager, South Asia; Disguise Acquires Polygon Labs; Sennheiser Group Invests in Its Pro Audio, Business Communication & Neumann. Berlin Business Units; Focusrite Group Acquires Linea Research; Indian Super League Football Chooses Tellyo; Sugandar Acquires Adamson E-Series; Mega Sound India Upgrades Its Inventory With Rcf Ttl33-A; Delhi's Led Solutions Investments In DLIVE; Automotive Manufacturer AAMP Global Acquires Audiocontrol.

60 Audio Install

St. Thomas Church Reinforces Sound with LD System; Woodside Inn Installs Martin Audio; Beta3 Revamps Sound at Ashirwad Church; VMT Reenergizes the Acoustic at Craftbar & Lockdown; QSC Reinforces Sound at Indian Music Experience Museum.

71 Lighting

Chauvet Professional Presents Well STX; City Theatrical Launches Beam Control; ETC Debuts Cyberlight Led Moving Mirror; Martin by Harman Updates Software for P3 System Controllers; Showtec Lights Up Prateek Kuhad's Concert; Prolights Extends Mosaico Range; ADJ introduces the New Encore Pro Colour.

78 Sound & Stage

Amate Audio Unveils Ultra-Compact Coaxial Point Source X14fd; N-LABS Expands X Series Amplifier; Jewar Airport Foundation Stone Ceremony Supported by JBL; Void Acoustics Debuts Bias Q3 Touring Amplifier.

80 DJ Technology

Pioneer DJ Introduces HDJ-CX Professional Headphones.

Outline Mantas-28 FOH was deployed on the axis to complement the proactive playfulness of ToyRoom

16

Columns

48 Guest Column

Post Pandemic Video Conferencing Rise: Abdul Waheed talks about the evolving Video conferencing market and the dynamic increase in hybrid workplace solutions.proceed as the markets have become uncertain.

68 The Bright Spark

Cautious Smart: Viraf Pocha talks about how businesses should cautiously proceed as the markets have become uncertain.

Products

20 PRODUCT FOCUS - ProAudio

Studio Monitors- Featuring a variety of essentials studio gear for audio and music production.

64 PRODUCT SHEET

Guntermann & Drunck (G&D) VISIONXS-IP-DP-UHR; HK AUDIO LINEAR 9 210 LTA; ADJ VIZI CMY300; Prolights SUNBAR 2000FC; M-Audio M-TRACK DUO; EAW MW10; SEADA SWMICRO; TASCAM MIXCAST 4.

76 PRODUCT FOCUS - AudioVisual

A line up of **Video Conferencing Solution**

Jabra PanaCast an all in one meeting box with plug-and-play technology for Instant collaboration

Fully Loaded Sound Lectern for New Age users

ASL-3000R

Compact, reliable and easy-to-assemble PA Lectern System with built-in 90W Class D amplifier.

18" detachable gooseneck condenser microphone & a reading light, for the podium top.

Built-in Dual Channel VHF wireless receiver & two nos. of VHF wireless handheld microphones.

Combo socket for connecting a wired microphone through a 6.3mm (1/4") phone plug or a line source through an XLR male plug. Facility for connecting an auxiliary source through a 6.3mm (1/4") phone plug.

Built-in digital MP3 recording, playback and Bluetooth facility. Recording or playback can be done using either a USB pen drive or a SD card.

Wireless microphones & gooseneck podium microphone have switchable voice priority over all other inputs.

MIX OUT, through a 6.3mm (1/4") phone socket, allowing the lectern system to be connected to external amplifiers for further amplification, if required.

USB outlet on podium top for charging of Mobile phones.

Rugged & stable floor standing base. Mounting clamps are provided for fixing the product to the floor.

Self-sufficient integrated solution for the sound re-inforcement needs of small auditoriums, hotel banquet halls, conference and seminar rooms, educational institutions, places of worship etc.

AHUJA RADIOS

marketing@ahujaradios.com www.ahujaradios.com

PRESONUS EXPANDS REVELATOR FAMILY WITH NEW USB VOCAL MICROPHONE AND AUDIO INTERFACE

PreSonus Audio Electronics, Inc. has announced the global launch of two new products in its innovative Revelator line. As with other Revelator-series products, the new **Revelator Dynamic USB vocal microphone** and **Revelator io44 Audio Interface** combine studio-grade audio recording quality with powerful onboard processing and a simple software-controlled mixer that can blend sound from multiple applications for monitoring and live streaming.

The Revelator Dynamic mic offers easy-to-use presets that let recording vocalists quickly customize their sound and create a mix for studio recording, live streaming, and podcasting. The Revelator Dynamic utilizes the same custom-built, dynamic microphone capsule found in the PreSonus PD-70 broadcast microphone. Like the PD-70, the Revelator Dynamic is designed to capture the human voice cleanly and clearly by eliminating breathiness, unwanted reverberance, and even ambient room noise. This allows the Revelator Dynamic to be set up in virtually any space, capturing the vocal take, every time, allowing home recordists to set up their studio just about anywhere.

Following up on the Revelator io24 audio interface and featuring a compact, the Revelator io44 features a stylish design that fits in the palm of your hand. The new four-in, two-out audio interface is bus-powered via its USB-C compatible jack and can serve as the heart of an ultra-mobile recording studio as well as the core of a streaming rig. The Revelator io44 features a combo mic/instrument input with the clear, clean sound of PreSonus' famed XMAX-L mic preamp, as well as a ⅛-inch line-level stereo input for DJ mixers and mobile devices making it perfect for electronic musicians, guitarists, and streamers. A high-powered, ⅛-inch stereo headphone output works with regular headphones and TRRS gaming headsets (mic in, stereo out). Balanced ¼-inch stereo main outputs are provided to connect to professional studio monitors.

Revelator-series USB microphones and audio interfaces offer extensive onboard signal processing, with the same Fat Channel EQ, compressor, gate, and limiter algorithms found in PreSonus StudioLive Series III mixers, plus reverb and voice effects like delay, vocoder, and more. Professionally crafted presets deliver sound with a single click. Additional presets emulate concert halls, AM radio, robotic voices, and more. PreSonus' UC Surface software for macOS and Windows provides full access to the processor settings allowing users to create their own unique sound and save them as presets for instant access.

Every Revelator-series product offers a software-controlled mixer that makes it easy to blend audio from three different applications at once to add backing tracks, Zoom calls, or gameplay and create custom mixes with all available analog inputs while monitoring at near-zero latency and simultaneously streaming and recording with up to 24-bit, 96 kHz precision. For those wanting to go live on a mobile device, every Revelator-series product connects directly to iOS, iPadOS, and Android devices. Because settings are stored onboard the hardware, every saved preset is accessible right from the physical button, so users can take their favorite voice effect presets with them wherever they go.

Revelator Dynamic USB Microphone and Revelator io44 Audio Interface Offer Powerful Processing for Recording and Streaming Musicians

While compatible with virtually any recording software, Revelator-series products come with a complete suite of software and are ready to record right out of the box.

AHUJA CONTINUES LEGACY OF IDENTIFYING EVOLVING NEEDS FOR SOUND REINFORCEMENT: UNVEILS AI-22 USB AUDIO INTERFACE

For the last 82 years, **AHUJA RADIOS** has been at the forefront in identifying evolving needs of sound reinforcement users and introducing reliable, made-in-India products to cater to them. Continuing this legacy, AHUJA has now introduced the **AI-22 USB Audio Interface** for new-age audiophiles. AI-22 is engineered to deliver studio quality (16Bit / 48kHz) digital recording and extremely low-latency streaming.

AHUJA Audio Interface AI-22 takes inputs from variety of sources like microphones, mixers, amplifiers, instruments through two versatile inputs and starts recording audio directly to the computer. Combining leading technical specifications with incredible performance and sound quality, AI-22 is the perfect interface for beginners and professionals.

AI-22 audio interface delivers studio quality sound with extremely low-latency streaming

The compact and easy to use interface device enables users to record / livestream the content in PC or Laptop using Windows / Mac built-in recoding software. AI-22 is also compatible with most of commonly used professional DAWs.

AI-22 is Made for Streamers, Podcasters, Musicians, Artists, Creatives, Beat-makers, Producers, a smart creative device to deliver a powerful recording solution no matter the art form. Switchable 48V Phantom power supply allows both dynamic and condenser microphones to be connected seamlessly.

Stereo as well mono outputs are available through two mono 6.3mm (¼") line level outputs. Stereo headphone output with level control is provided for monitoring purpose.

AI-22 is a mobile audio interface in the best sense of the term. It can sit on a tabletop or fit in the pocket of a backpack or laptop bag. Its aluminum metal chassis is built like a small tank - yet it weighs just 0.5 kg.

Ahuja USB audio interface is designed for multiple applications like online teaching, video conferencing, recording professional quality digital content useful for content creators like YouTubers, vloggers, podcasters, and studio quality music recording for budding musicians.

L-ACOUSTICS UPDATES L-ISA STUDIO 2.4 SOFTWARE FOR IMMERSIVE MIXING

L-Acoustics expanded the spatial sound possibilities for music creators with the launch of the L-ISA Studio Software Suite, the updated **L-ISA Studio 2.4** harnesses the power and versatility of L-Acoustics L ISA technology, making it accessible for sound creators to design immersive audio whenever-and wherever-they're ready to create.

L-Acoustics expands access to L-ISA Studio with an unlimited free binaural output capability. The software, compatible with any Mac computer, is available on the L-Acoustics website. Through L-ISA Studio's binaural engine, users can create and monitor spatialized audio content from their laptop, using headphones and optional head tracking. L-ISA Studio software accepts up to 96 audio objects and sends 12 audio outputs to any soundcard. All binaural capabilities within L-ISA Studio are now free for an unlimited time.

"With platforms like Apple Music, Tidal, or Amazon Music enabling spatial sound, the ability to conceive music directly in immersive is not a luxury; it's a need," explains **Guillaume Le Nost**, Executive Director of Creative Technologies at L-Acoustics. "For this reason, we felt that it was important to make L-ISA Studio available to anyone, with any Digital Audio Workstation on the market. L-ISA Studio is an amazing platform from which users can explore spatial audio dimensions and share ideas with other creators."

The L-ISA Studio 2.4 interface is compatible with Mac

In the paid version, mixing engineers and creators can deploy L-ISA Studio in any multi channel mixing or recording studio with up to 12 loudspeakers for multi channel monitoring. Pre-production can be done with the L-ISA Studio software suite for live productions, then seamlessly transferred to a venue configuration using the L-ISA Processor.

Developed to improve the workflow and unleash the creative potential of all sound creators, L-ISA Studio seamlessly interfaces with leading digital audio workstations, show control software, and gaming engines. It also offers compatibility with various 3D audio formats, including Dolby Atmos and other multi-channel configurations.

DEAR REALITY LAUNCHES STEREO PRODUCTION BUNDLE

Dear Reality launches a **plugin bundle** to enhance any stereo production with a simplified mixing workflow and uniquely spatial audio. The **Stereo Production Bundle** includes the **dearVR MIX virtual mix room plug-in** and the **dearVR MUSIC spatializer plug-in**. While dearVR MIX ensures reliable headphone mixing in customizable virtual mix rooms, dearVR MUSIC adds a 360° panner and spatial reverb that gives depth and width to a mix.

"By combining our high-precision dearVR MIX virtual mix room with the advanced dearVR MUSIC spatializer, we are ensuring fully reliable stereo mixing through headphones while at the same time breaking down the barriers of stereo to add unique depth and width to a recording," explains **Achim Fell**, Co-CEO of Dear Reality.

The dearVR MUSIC plugin turns any DAW into a 3D audio powerhouse. This spatializer plugin has been designed to break down the limitations of crowded stereo mixes. It relies on 18 true-to-life virtual acoustic environments for music production, such as a concert hall, church, stage, drum room, and many more. "With dearVR MUSIC's advanced virtual acoustics, you can enrich every production with an immersive feel for the listener," says **Christian Sander**, Co-CEO of Dear Reality. "The plug-in provides a big sound to all instruments that you want to sound huge."

dearVR MUSIC spatializer designed for efficient crowded stereo mixes

dearVR MUSIC provides a big and wide sound to any instrument engineers and content producers can count on what they hear and be sure that their mixes will translate well to other sound systems and locations, whether they are on the road or in the studio. Based on advanced spatial audio technology, dearVR MIX turns any studio headphones into a world-class stereo mix room with carefully designed acoustics. The plug-in also features Dear Reality's Spatial Headphone Compensation. This adapts the 45 most used professional studio headphones to the selected virtual mixing room, enabling a model-independent, stable simulation of a perfect acoustic environment.

RODE INTRODUCES NTH-100 PROFESSIONAL OVER-EAR HEADPHONES

Rode debuts into the headphone market with **the NTH-100 professional over-ear headphones**. Combining sonic performance with features for superior comfort, topped off by the iconic style and quality that promises an audio experience that inspires creativity.

The NTH-100s are Rode's first-ever pair of professional over-ear headphones features custom-matched drivers that deliver accurate frequency response and low distortion – ideal for critical listening in all content creation applications. Precision-engineered acoustic construction optimized for exceptional detail and clarity Alcantara earcup and headband cushions for superior comfort. The unique ergonomic earcups with memory foam cushions for excellent noise isolation and revolutionary CoolTech gel for reducing fatigue are fully adjustable headband with FitLok locking system for a tailored feel.

The NTH-100s has been crafted to deliver sonic performance for critical listening, from monitoring to mixing to mastering. They are ideal for all forms of content creation at home, in the studio or in the field, including music production, podcasting, and livestreaming, location recording, and video production or editing.

The NTH-100s feature custom-matched 40mm dynamic drivers that have been crafted to deliver accurate frequency response and clarity. Their design is based around a custom voice coil with a four-layer ultra-high-tension aluminium alloy as its core, which is coupled to an ultra-stiff triple-layer Mylar diaphragm. Together with a rare-earth neodymium magnet, these high-grade components ensure optimal acoustic and electrical performance for extremely low levels of distortion and a highly accurate response across a broad frequency range. The earcups also feature high-density memory foam for excellent noise isolation.

The NTH-100s are precision-crafted to retain every detail and every nuance of sound they produce. In other words, audio as it's meant to be heard.

As well as sounding exceptional, the NTH-100s are comfortable. They have been optimized for long-format content creation to reduce fatigue, even during the most arduous sessions.

The NTH-100s feature Alcantara on the earpads and headband, which absorbs and dissipates heat, actively cooling the head and ears to significantly reduce wearing fatigue.

The ergonomic design of the earcups ensures maximum comfort. Each pair comes with a high-quality 2.4m (7'10") straight black cable that is lightweight and unobtrusive, with 1.2m (3'11") and coloured variants (pink, green, orange and blue) available separately. Also included are a storage pouch, a 3.5mm to 1/4" adaptor for use with professional audio equipment.

The NTH-100s feature 40mm dynamic drivers for accurate frequency response

UA LAUNCHES UAD SPARK PLUG-INS AND SUBSCRIPTION SERVICE

Universal Audio (UA), a manufacturer of Apollo and Volt audio interfaces, UAD plug-ins, mics, and UAFX guitar products, has introduced **UAD Spark**, a new subscription service that puts pro audio industry standard UAD plug-ins and exciting new instruments into the hands of music creators worldwide. This evolving collection runs natively on Mac and with Windows coming this fall.

"Right from our start in 2001, UAD plug-ins have been about recreating the authentic, inspiring sounds of classic studio and music gear," says **Bill Putnam Jr.**, UA's Founder, CEO. "With UAD Spark, we're able to extend that vision, and bring professional UA sound home for everyone.

UAD Spark features UA's popular plug-in emulations of recording studio hardware, running natively for the first time. The Studio gear includes Neve 1073 Preamp & EQ, UA 1176 Compressor Collection, Teletronix LA-2A Compressor Collection, Studer A800 Tape Recorder, and API Vision Channel Strip.

UAD Spark also introduces exclusive new UAD instruments, benefiting from UA's expertise in modeling, sampling, and synthesis. Instruments include, Opal Morphing Synthesizer (exclusive to Spark), Moog Minimoog, Waterfall B3 Organ, & Ravel Grand Piano.

"Over the past few years, accelerated by COVID and lockdowns, the number of music and content creators has exploded," explains **Sandeep Gupta**, UA's Chief Operating Officer. "With UAD Spark, we're putting the top tier of audio processing — including exclusive titles from Neve, Moog, Studer, API, and Lexicon — into everyone's hands. Combined with our new Volt audio interfaces, UAD Spark lets more creators experience UA's legendary sound."

"We're excited to be a part of **UAD Spark**, which brings the Moog synthesizer experience and uncompromising depth of sound to a new class of creators," said **Joe Richardson**, President of Moog Music Inc. "UA and Moog share a long history of collaboration and a common goal of designing tools that inspire musicians for a lifetime."

Another instrument exclusive to the UAD Spark service is the Opal Morphing Synthesizer, a new UAD instrument that blurs the lines between analog and wavetable synthesis, with built-in UA effects and fast, record-ready presets.

UAD Spark runs natively on Mac and all major DAWs

Creating the perfect UA studio experience, all UA Volt audio interface owners get an exclusive 30-day free trial of UAD Spark, and all UAD plug-in owners get the native version of their plug-in(s) for free.

Key Features include a professional collection of UAD plug-ins and instruments from Neve, Moog, API, Lexicon, Teletronix, UA. The New UAD instruments including the Opal Morphing Synthesizer runs natively on Mac and all major DAWs that support AU, VST3, and AAX formats without any UA hardware.

IES®

INTEGRATED ENTERTAINMENT SOLUTIONS®

Your Indian Distribution Partner

ProMotion

Forte

Diamond 9 215

Diamond 9 330

P10i

P10j

S210 P (IP 66)

Polar 10/12

ROBE®

AVOLITES

HK AUDIO

Aura
(Stand-Alone
Playback Unit)

MADRIX LIGHTING CONTROL

mxa-1502

ASHLY

Pearl

Topaz

Lucenti

Lumicore

Luminex

Eminere

Anolis

Moonlite

lumenradio

SPARK MACHINE

DJPOWER

CAPTURE VISUALISATION

CAPTURE 2022

PENTON

Pani

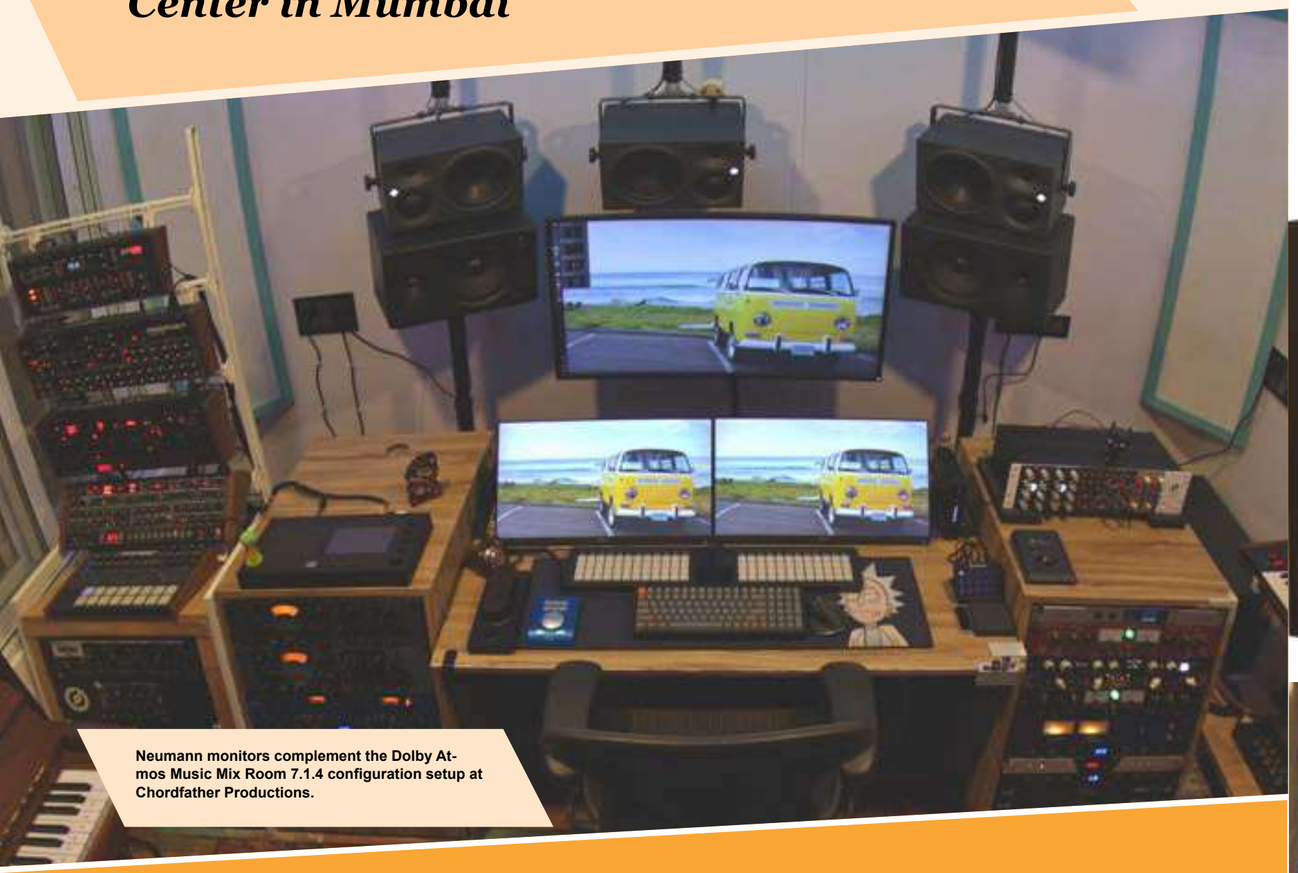
VMB

DJPOWER

Add: Shop#13, Lal Chimney Compound, Dr. A.B Nair Rd, Mumbai: - 11. INDIA.
Tele: +9122 2301 8804 / 05. E: iesolns@gmail.com W: www.iesolns.com.
Rasesh Parekh: 9821125579

The CHORDFATHER Experience

Neumann's first Studio Monitor Experience Center in Mumbai



Neumann monitors complement the Dolby Atmos Music Mix Room 7.1.4 configuration setup at Chordfather Productions.

*Recently **Neumann** in collaboration with well-known music composer, producer, sound engineer, and live engineer, **Sunny M.R.'s Chordfather Productions** announced the launch of its exclusive Studio Monitor Experience Center for audio professionals in Mumbai. India is one of the few countries worldwide to have a Neumann Monitor experience center. **PALM+ AV-ICN** met with Sunny at his Experience Centre to fathom the roots of this collaboration.*

Born in the city of Patna, **Sunny M.R.** boasts over two decades of experience in the music industry. He calls himself an accidental producer, he started his journey primarily as an engineer assisting his elder brother **Shadaab Rayeen** and moved to Hyderabad, where they worked for seven years. Sunny never had formal training in music but being surrounded by musicians piqued his interest, which led him to explore production and composition. "The learning should never stop. If I'm in one field, I'm just learning about that, but then I wanted to expand and explore. it's all about consistently learning as much as possible" says, Sunny.

The Sunny-Neumann Collaboration

Sunny opened his studio – Chordfather Productions, in a picturesque neighbourhood of Mumbai. The rise in demand and workload inspired Sunny to start his production studio, a space that offers an end-to-end solution to artists. The studio caters to services encompassing music composition, production, engineering, and recording.

Elaborating on the idea and vision behind the whole concept of the experience centre, Sunny says "In 2007 we did a partnership with **Sennheiser/Neumann** India, and they had sent Klein + Hummel speakers for us to try. They had recently integrated **Klein + Hummel** into Sennheiser & Neumann, and the company were redoing some designs. I was blown away by these speakers, and that's when I decided that these speakers were the best option for my Studio. Neumann is huge in the audio business, and I have been using many Neumann microphones for a lot of my recordings. Neumann India was kind enough to partner with us on this experience centre. The partnership is aimed at building a community for artistes striving to get their musical work done. We give a huge amount of credit to the quality and finesse that Neumann gears add to the sound. The idea is to make more and more music in an environment, which is loved by artistes alike."

Sunny's earlier studio setup had Sonodyne speakers but now for the new space, he wanted something even better. "I wanted my work to reflect well for which I chose the **KH 310 speakers**. The KH 310 monitors are special for me; Neumann speakers have been my favourite for a long time, and now 13 years later, I have 13 of them!" he says.

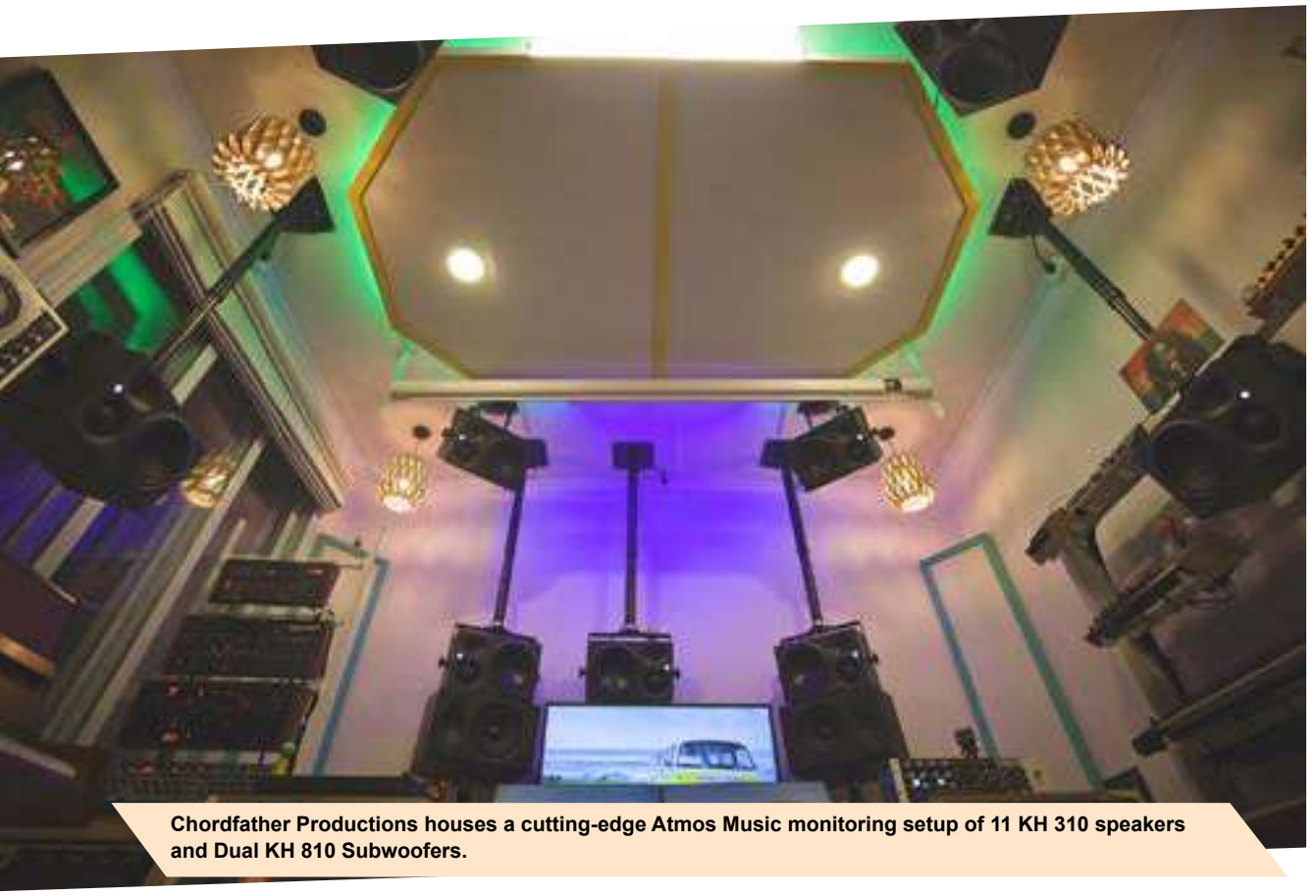
Sunny was working out of his home studio in an individual flat in a residential complex with a 7.1 surround setup but was seriously contemplating an Atmos setup to enhance his workflow. "When I decided I want an Atmos setup, I also knew I needed a bigger space," says Sunny.

In 2021 August, Sunny started building Chordfather Productions but before that in July, he reached out to **Rishikesh** from Neumann to plan and execute the speaker setup. Sunny and his wife designed the entire space and acoustic architecture layout after which they also reached out to Karan Grover of Dolby and his team for the 7.1.4 configuration. After the speaker setup was completed **Bhasker Pal** from Dolby came in to tune and calibrate the speakers.

The studio is a multi-room facility divided into three rooms. The primary room consists of Dolby Atmos Music Mix Room with a 7.1.4 circular configuration setup and two stereo rooms for music production, mixing and mastering for Bollywood films and Indie music artists. The mixing room is calibrated professionally for music production, monitoring, mixing, and mastering services. Chordfather Productions houses cutting-edge technology and an arsenal of various Analog gear. The Atmos Music monitoring setup has 11 KH 310 speakers and Dual KH 810 Subwoofers, driving the space.

Sunny M.R.

The studio boasts of Sunny's collection of synthesizers and hardware that he has collected over the years in his career. He is passionate about all his hardware equipment, especially the 808 Roland, which he proudly wears as a tattoo. "Getting a lot of hardware synths and hardware equipment made me realize and learn how to use software efficiently. Software plugins are easily accessible, but many don't respect them as much as the hardware counterpart. Only once you use the real hardware is when you realize that they are equally well made these days. I prefer to track using analog gear but mix completely in the box," says Sunny.



Chordfather Productions houses a cutting-edge Atmos Music monitoring setup of 11 KH 310 speakers and Dual KH 810 Subwoofers.

Challenges

Being an Atmos setup, the placement of speakers and the dimension is calculated on paper with drawings, but Sunny faced a major challenge during the physical setup. "We had to fix the monitors at least four times. From theory to practical things differ a lot," says Sunny. "Technical detailing is time-consuming because we had to figure out routing in a way wherein, we can do our regular mixes, regular tracking, recording multiple instruments everything is interconnected. At first, it took a little while to configure and figure it out. I have four sound cards attached to one system and shuffling between those is a task."

The Idea behind Chordfather

The six-month old studio's unique name Chordfather Production is derived from Sunny's love for the movie Godfather. With Chordfather, Sunny hasn't just created a studio but an experience center that creates an exuberant environment for music and artists and people who can come and listen to the quality and finesse that Neumann gears add to the sound. Chordfather Studio is open for the old as well as new and upcoming artists who can come together and form a beautiful community of like-minded music professionals and admirers alike.

Sunny's admiration for Neumann equipment has grown over the years and he is now in the process of enabling the third room at Chordfather with an Atmos setup comprising a setup of Neumann KH 120 speakers.

Music with Sunny

The pandemic opened a new avenue for artists to unleash their creativity and unveil their music. Even Sunny embarked on a series called Unsung Verses- a solo project that he produced, composed, wrote, and even sang himself. "The challenge was to make one song every 15 days. I released ten songs in six months," says Sunny.

Sunny's secret to creativity is to ensure that he takes short breaks during his project to avoid monotony and mental exhaustion. "I practice not sitting for more than two hours and ensure a 15-minute break minimum to unwind and then resume," says Sunny.

Sunny is currently working on **Shalmali Kholgade's** album 2X side B, an independent EP for **Nikhita Gandhi,** and on films like **Laal Singh Chaddha** and **Brahmastra**. He is also touring with **Arijit Singh** as a show director, music producer and FOH engineer.

He also encourages people to listen to a lot of music without analyzing or criticizing it. He says it is essential to explore other music genres as well. "I have a different approach to listening to music, which is I keep my musician and technician side away. I listened to the song a couple of times, then dive into it if I like to explore what exactly is happening in the song," concludes Sunny. "For musicians, upcoming or existing ones, I have to say that to keep on learning and unlearning because these are the most important aspects of being an artist. The minute you stop learning or experimenting or unlearning, you're not going to be able to do new things in general in life and musically," concludes Sunny.

> **"Neumann India was kind enough to partner with us on this experience centre. The partnership is aimed at building a community for artistes striving to get their musical work done. We give a huge amount of credit to the quality and finesse that Neumann gears add to the sound. The idea is to make more and more music in an environment, which is loved by artistes alike, says Sunny."**

Chordfather Production's third room to be enabled with Neumann KH 120 Speakers

TRICOLOR INDIA SCHAUSPIEL INSTALLS STATE-OF-THE-ART PROJECTION MAPPING AT STATUE OF EQUALITY

Tricolor India Schauspiel, a renowned systems integrator in India specializing in architectural 3D projection mapping, chose **Christie** to illuminate the **Statue of Equality.** Christie's 3DLP laser projectors were deployed for a mesmerizing projection mapping showcase on the newly inaugurated Statue of Equality, which commemorates the 11th-century Bhakti Saint **Sri Ramanujacharya.**

The spectacle, which highlights the life journey and teaching of Sri Ramanujacharya, is accomplished using eight **Crimson Series laser projectors and four Griffyn 4K32-RGB** pure laser projectors. The Crimson Series projectors were installed within two towers to deliver bright and intensely colourful images on the surface of the statue. While the **Griffyn 4K32-RGB projectors** were used to display captivating imagery on the gates and walls surrounding the statue.

Located in Hyderabad, the capital city of Telangana state in south-central India, the 216-foot-tall Statue of Equality is one of the world's tallest metallic statues in sitting position. It is mounted on a 54-foot-high base building named "**Bhadra Vedi",** which houses a digital library and research center, a theatre, as well as an educational gallery detailing many works of Sri Ramanujacharya. The majestic structure was officially inaugurated by Indian Prime Minister **Narendra Modi** during an elaborate ceremony on February 5.

"This is a landmark project and we've spared no effort in bringing this highly anticipated projection mapping showcase to fruition using a very capable and dependable projection system that can withstand inclement weather conditions," said **Himanshu Sabharwal**, Creative Director, Tricolor India Schauspiel. "The Christie Crimson Series is our preferred choice due to its excellent track record in India, particularly in terms of performance, reliability and service support. We are also delighted to deploy Christie's Griffyn 4K32-RGB projectors for detailed projections on various structures overlooking the

Christie Griffyn 4K32-RGB projectors deliver lifelike projections on the Statue of Equality

Statue of Equality."

Rishubh Nayar, Sales Director for India, Enterprise, Christie, commented, "We're deeply honored that our 3DLP and RGB pure laser projectors have been chosen to illuminate the Statue of Equality, which symbolizes **Sri Ramanujacharya**'s ideals of equality in all aspects of living and driving home the message of equality for all. Our heartfelt congratulations to the Tricolor India Schauspiel team for putting together a spectacular show that aptly demonstrates the capabilities of our high-brightness laser projection systems, which has built a solid reputation for delivering numerous large-scale

(Continued on page 14)

N-LABS

POWER RATING (RMS)
2 X 2100W @ 8Ω
2 X 4200W @ 4Ω
2 X 4400W @ 2.7Ω

PEAK POWER
2 X 2500W @ 8Ω
2 X 5500W @ 4Ω
2 X 5500W @ 2.7Ω

20 x 22000uF Capacitors

WHY X1?

21193/94 Transistors

Ideal for Subwoofers

30 A Output

DESIGNED IN INDIA

4 Fans

>1500 Damping Factor

ITS NOT JUST AN AMPLIFIER, ITS A TANK FULL OF TECHNOLOGY

दूसरों के बहकावे में न आएं, हंमेशा सर्वोत्तम का उपयोग करें, केवल **N-Labs** खरीदें...

nlabsindia www.n-labs.co.in nlabsindia

NEWTEK'S TRICASTER ENABLES HYBRID LEARNING AT SANSKRIT UNIVERSITY

India's **Sanskrit University** has upgraded its video equipment **with NewTek's TriCaster** to create a hybrid education offering that has not only helped it ride out the pandemic, but also offer its courses online and worldwide. Students, meanwhile, benefit from being able to access and re-watch lectures on-demand any time and in any location.

The **Shri Lal Bahadur Sahastri National Sanskrit University** was created in 2020 by an Act of Parliament. Based in New Delhi and with a history that dates back to its initial establishment as a Vidyapeetha in 1962, its main objective is to promote and spread the use of the Sanskrit language and harness the vast knowledge available in millennia of Sanskrit manuscripts.

As with academic institutions around the world, it increasingly utilizes video technology to help teach its students in a hybrid environment and has established a dynamic online presence that has enabled it to broaden its reach and bring Sanskrit studies to students far beyond its campus. Hybrid learning is beneficial to the students, who are able to access lectures online and on-demand, rewatch parts they don't understand, and ensure they don't miss anything crucial in their busy studies.

Hybrid learning has also helped it ride out some of the worst effects of the Covid-19 pandemic, with the university being able to pivot quickly to online learning as the main focus where needed rather than merely as an option.

"The upgrade of our facility has helped us at the time of pandemic to conduct online classes, examination and evaluate the papers," comments **Dr. Alka Rai**, Finance Officer and Registrar at Sanskrit University. "All the teaching, learning, examination, and evaluation were completed in time."

Central to the Sanskrit University's continued success despite Covid-19 has been the establishment of a new video studio based around NewTek solutions. Prior to this, it was struggling with outmoded studio equipment and even had to hire an agency to produce lectures in line with its syllabus, a process it found both time consuming and that failed to deliver the quality it wished for.

"We had problems in shooting, editing and video production and understood that we needed to find a solution" comments **Banwari Lal Verma**, IT Head and System Administrator at Sanskrit University.

Sanskrit University's new facility is based around a **NewTek TriCaster switcher**, which is coupled together with an **NDI-based PTZ camera** for complete plug-and-play ease of use.

"Having an NDI-based camera is convenient for us in that we are able to fully control the camera — pan, tilt, zoom, and all that functionality — while sitting in our seats," explains **Jiwan Joshi**, System Operator at Sanskrit University. "We also find that we can now do video editing very easily too".

Banwari Lal cites the TriCaster's abilities in camera control, chroma key, and the fully featured virtual set editor with which the team can create its own virtual sets as particular strengths. One of the big benefits the University has also found with its NDI-based kit has been the ability to produce high quality video content with a very small team of people.

"Before, we needed separate persons for each job such as camera handling, lighting, and then later for video editing; it was a complete process and many people were required to do it," says **Jiwan**, "But with the help of the NewTek TriCaster, now one or two people can do this whole task."

"In spite of having a lack of technical knowledge, it is very easy to use these tools and also provide live streaming of various university programs on multiple platforms," says **Gyan Chand Sharma**, Assistant Programmer at Sanskrit University.

The new NDI-based system has given Sanskrit University the ability to live stream or record and edit its lectures for on-demand access, extending its outreach program to encompass an online student body from not only remote areas of India but also other countries such as Nepal and Japan. Indeed, so successful has the new studio been that it is already looking at the process of constructing other smart classrooms to be able to offer all of its classes via a hybrid online/offline model so that more and more students worldwide can get the benefit of Sanskrit studies.

NDI and TriCaster enables live streaming or recording and editing of lectures extending Sanskrit University's outreach program.

TRICOLOR INDIA SCHAUSPIEL INSTALLS STATE-OF-THE-ART... *(Continued from page 13)*

projection mapping projects in India."

Engineered to withstand the rigors of demanding, high-usage applications, the **Christie Crimson Series** projectors feature an IP5X-sealed, solid-state laser light source are equipped with 31,500 lumens and Christie Bold Color Technology, produce bright and stunningly colorful images. Along with the ultra-fast processing of Christie Tru-Life electronics and built-in warp and blend capabilities of Christie Twist, offer installation flexibility.

The projectors operate at less than 46dBA at full brightness, the Griffyn 4K32-RGB is designed for large venue applications, rental and staging It produces a wide color gamut, achieving more than 96% of the Rec. The Griffyn 4K32-RGB also includes the electronic color convergence (ECC) capability, which allows users to adjust convergence via remote control for easy, picture-perfect color alignment.

The Statue of Equality in the day

INDIA'S HOPE UNLIMITED CHURCH USES GRANDMA3

When **Hope Unlimited Church** in India wanted to revamp its live performances, they reached out to **Hi-Tech Audio Systems**, the exclusive distributor of MA Lighting in India. The church purchased three new grandMA3 lighting consoles – two **grandMA3 compact XT**, one **grandMA3 onPC** command **wing XT** and one **grandMA3 on PC command wing**. Hope Unlimited Church's additional sites in Secunderabad, Hayathnagar and Kolkata, as more campuses are coming across the country, are integrated with grandMA3.

Hope Unlimited Church founder and Senior Pastor, **Rev. Scott Norling**, has always been an advocate for quality equipment. "It is his vision and passion to ensure that the church is globally relevant both now and for future generations," explained **Sukesh Hickson,** Technical & Production Director. Sukesh, who heads up all the various Hope Unlimited technical teams around the country, stated, "grandMA3 is a perfect choice of console for all types of houses of worship, large and small, as it is so powerful and flexible and can meet all of our needs!"

This was followed by an MA on PC command wing, before upgrading to a grandMA2 light in Hyderabad's Hills Campus venue. Sukesh and the team of lighting volunteers in Hyderabad also think it is important to keep abreast of the fast-paced world of production technology and lighting control. "For us, using a grandMA is now the only way to program and operate lighting," Sukesh adds, "MA Lighting products are extremely reliable, well designed and built." This in turn enables their lighting designers, programmers, and operators to get the most out of the lighting rigs they are working with for the different services and other activities.

He's also impressed with the general level of training and support offered by MA, a big bonus to working with the brand as he co-ordinates in total around 70 volunteers across all sites who are running productions for the Sunday services, so the more educational opportunities there are for them, the better.

Most of the Hope Unlimited Church volunteers have been trained on the consoles in person, online and via MA Lighting's extensive and impressive raft of E-learning platforms and communities. "The software's one-application-all-platforms strategy makes it very straightforward for volunteers to learn and gain experience, whatever the size of the console they are using."

The Hyderabad campus hosts around 1,600 people for services each weekend, with events also streamed for a large online audience. The grandMA3 compact XT is running in full grandMA3 mode and currently controlling approximately 72 fixtures, a mix of moving lights, conventional fixtures, plus LED tubes and blinders all running across eight universes using 1,100 parameters.

The lights are deployed in eight different locations – on the overstage bars, on side trusses, at FOH and on the deck. In addition to the regular services, there is a lively mix of other events including movie audio launches, quiz shows and conferences, so it's essential to be able to deliver a diverse range of lighting and technical solutions. For special events, more fixtures are frequently added, another advantage of the MA system where the available parameters can be distributed over multiple universes without needing extra hardware just to expand that functionality.

Their grandMA3 onPC command wing XT and grandMA3 onPC command wing were already running in full grandMA3 mode and the switch with the grandMA3 compact XT came at the start of 2022. Volunteer **Harsha Davuluri**, a regular programmer and operator in Hyderabad, comments "The phasers have been the most interesting feature so far, opening up a whole new world of possibilities for creating truly dynamic effects."

For volunteers **Santosh Samuel Meegada** and **Bunty Mallarapuit** is the Selection grid along with the MAtricks options that are proving the best grandMA3 tools features so far, "especially in terms of new volunteers understanding the reasoning behind why things happen the way they do.While we still have the same underlying workflow for creating Phasers as we did with grandMA2 Effects, the new Phaser Editor Window together with its one-dimensional steps view mode offers a far better understanding as to what is happening with the values," elucidates Harsha.

Sukesh confirms with grandMA3, the duration of transition has been 'virtually none'. "The knowledge our volunteers had about creating presets, building sequences, running song-transition macros, etc., is exactly the same if not easier than before and while it will take time for them to develop their own flavour of grandMA3 programming and the most important things like the underlying command syntax have been pretty much the same, so we don't have to put our services at stake!" said Sukesh. He further emphasizes the importance of their volunteers and the vital contribution made by regular lighting team members including **Paul Abhishek, Benny Gundupalli, Rahul Thipparapu, Seshi Govatati, Vinitha Chitram, Peter Prudhiviraj (Pulli) and Kranthi Lingampally**.

Sukesh comments. "working at a House of Worship institution like Hope Unlimited Church means being prepared for some spontaneous and often unrehearsed worship moments, and now that the presets allow for timing information to be stored inside them, "it is very easy for us to use individually timed presets while busking!" Sukesh and the team consider grandMA a solid investment because as the equipment will not become obsolete and always maintains a good market price with low depreciation and the software upgrades are free for the lifetime of the console.

Hope Church creates dynamic effects with grandMA3 consoles

www.palmtechnology.in/Sound_Stage_Home.aspx

Milind Raorane sets the tone at ToyRoom Mumbai

*ToyRoom outfitted its second outpost in Mumbai with Electro-Acoustic Design Consultant **Milind Raorane** to deploy a comprehensive Sound and Audio design that would enhance the unapparelled ambience of the nightclub. PALM +AV-ICN Reports.*

Outline Mantas-28 FOH were deployed on the axis to complement the proactive playfulness of the space

ToyRoom Club incorporated with edgy hip-hop inspired graffiti murals and a fluid bar with multiple dancing platforms

Located in Kalina, Mumbai, Toy-Room Mumbai is established on the premises of the vibrant and stylish Grand Hyatt, one of Mumbai's sophisticated leisure and business destinations. ToyRoom Mumbai is the second project in India, launched after the success of its first outpost at Aerocity in Delhi.

ToyRoom is popularly known for its exciting nightclub experience focusing on delivering premium hospitality while retaining its proactive playfulness. The design and conceptualization bring an upscale sensation in Mumbai that progresses from a high-energy bar into a hip-hop bar as the night sets.

ToyRoom is present in eight different countries and is recognized as one of the biggest and hottest UK-based international entertainment brands, operating in London, Dubai, Istanbul, Rome, Mykonos, Athens, Sau Paulo and now India. ToyRoom was brought to India by **Ashis & Sikha Begwania** with Hospitality Entrepreneur **Akshay Anand**.

Since 2018 **Milind Raorane**, Electro-Acoustic Design Consultant at Soundframe, has been working with Akshay Anand - **Campbell Lounges & Beverages** as an Interventional Acoustic Consultant, helping the team eradicate real-time errors. For this project, *Raorane was consulting on acoustic and sound solutions.*

Milind provided his expertise in the Delhi outlet of ToyRoom, the success of which landed him an offer to design the acoustics and audio for the Mumbai ToyRoom project.

ToyRoom houses the ultimate setting for chic, fashionable party-goers with a fluid bar that acts as a central focal point with multiple dancing platforms. Reproducing the London flagship, edgy hip-hop-inspired graffiti murals cover the walls with indulgent cocktails, decadent interiors, and slightly liberated 'Frank the Bear' as their mascot delivering an unparalleled ambience from any other nightclub in India.

The club holds a capacity of 450-person and has quirky interiors that complement the aesthetics of ToyRoom. The layout encompasses a grand entrance lobby with a merchandise area, and ornate with an art piece on the right is a ToyRoom rendition of the classic Last Supper painting. The narrow passage of the lobby leads towards an L-shaped main hall with a big curvilinear island

Milind Raorane, Electro-Acoustic Design Consultant, Soundframe

bar with Frank- The ToyRoom Mascot on the entire bar front, which has approximately 2000 teddy bears stuffed in it. The club stands out internationally for placing children's toys in an entertainment setting for adults, bringing out the contrast between innocence and naughtiness.

The USP of the space has DMX controlled ceiling light that syncs with the music, which turns around the ambience at night and gives an upmarket and elevated vibe to the place. There is a disco cloud lighting feature that dissipates millions of fractal light dots onto the entire space highlighting the eclectic interiors. The club has several

BSS-BLU100 DSP Controller and Pioneer CDJ2000NXS with DJM900NXS were deployed to deliver explicit tonal quality

VIP corners colligated with the main hall that adds exclusive vibes and a separate private lounge on the upper level for hosting larger gatherings overlooking the main hall.

Milind started conceptualizing the design in May 2021 and overcame several challenging hurdles to install and calibrate the system, which took eight months to complete amid the second wave of the pandemic. By December 2021, the club was ready for people to experience the nightlife at ToyRoom Mumbai.

The challenging aspect of this project was to deduce a rugged sound design that would offer dispersion and coverage with no spillage of sound beyond the club premises. The prime task for Milind was to craft a solution that would enable sound abatement whilst maintaining optimum frequency.

"In the earlier run, Hyatt has faced severe noise-conduction issues. ToyRoom Mumbai is inside Hyatt premises, surrounded by guests accommodating the building and various offices adjacent to the club, which created a challenge to execute the high-energy club's sound architecture and design. Sound design is an aspect we enrolled in later as the project progressed with installation and calibration," said, Milind.

Milind had received ACAD drawings and 3D renders of the club's premises for a better understanding. The Hyatt team also shared the structural layout and details of the noise-conduction issues with him.

Milind said, "Sound-Isolation design in a pre-existing establishment is a tight rope because the structural load and space to build additional barriers are limited. There are existing services of the primary structure that one can't change or negotiate," he further adds, "the acoustic isolation walls were built first to be followed by interior design details. The ceiling was sprayed with acoustic plaster for reverberation control and made a customized acoustic door for the main entrance. We formed an "air-lock lobby" at the entrance to mitigate the sound escaping the main entrance that doubles up as a hostess desk."

The sound design is unique given the architectural design of the premises. It has an open ceiling design completely occupied with HVAC ducts and theme-mood lighting fixtures. The design layout restricted the deployment of conventional FOH loudspeaker arrangements.

"We divided the space laterally and created two mirrored zones. The FOH (Mantas28 cluster) is on the same axis facing the DJ (against the conventional practice of placing alongside the DJ). Here we had a fringe benefit of the FOH loudspeakers dualling as Monitors for the DJ. He gets to hear the explicit tonal quality of the sound as the guests on the floor." Said Milind.

The sound system deployed at the club were **Outline Mantas-28 -4box** per side, **Outline Eidos-s218 SUBs 3nos, Outline Eidos-12 Full range tops 4 nos**, as side-fills, **Eidos-Idos S118 2nos** as fill-Subs, **Outline X4 3nos AMPs, BSS-BLU100 DSP Controller** and **Pioneer CDJ2000NXS with DJM900NXS**.

"The project was challenging, given the acoustic architecture and the environment of the club, but achieving the right sound and acoustic design that did not compromise the high energy sound in the club space was a fruitful experience," concludes Milind.

CAVS

(Certified AV Specialist) Course 2022

Following the success of the CAVS (Certified AV Specialist) certification course conducted by Mr. Ranjit Singh in 2019, PALM AV-ICN 2022 will once again organize the 3-day three-day certification course from **May 26 – May 28, 2022**, in Hall 1 of the Bombay Exhibition Centre, Goregaon.

This particular edition of CAVS is dedicated to late **Mr. Ranjit Singh**, the first CAVS Director.

PALM AV-ICN is fully committed to galvanize professionalism with this certification programme. CAVS will be run by Indian professionals to train on Specs, Techniques, Tools, Technologies, Trends. The three-day certification course will be conducted by, **Abdul Waheed**, Managing Director, EYTE Technologies Pvt. Ltd. and **Arif Patil**, Principal Consultant at EYTE Technologies Pvt. Ltd.

The course aims to empower attendees with an understanding of technology and trends in AV. The CAVS Certification is aimed at providing knowledgeable manpower, replacing the 'electrician' with a 'qualified integrator' and creating a talent with specific learning for AV integration.

Anil Chopra, Founder Chairman, CAVS, Guidance Message

"CAVS is the mantra. The ethos of CAVS is to provide an independent neutral education forum suited to Indian AV ecosystems. AV professionals in India will be imparted basic knowledge of AV to gain their commitment to a future career in AV as a technician and join an integration team on par. Having a Certificate from AV-ICN platform providing the participant credibility to stand shoulder to shoulder with those who claim privilege. CAVS certificate launched, covers basic curriculum introducing the aspirant to essential AV protocol and standards, the must know factors. CAVS will introduce advanced courses in future, imparting learning in AV Design and Networking and Integration and full capability to practice AV consultancy for large projects.

Global Standards and Specs, latest techniques and products, adopting cutting edge solutions will be learned in the CAVS courses.

My guidance is clear, seize this opportunity to create and strengthen CAVS platform. Participate and have independence in developing communication and networking integration systems for our future infrastructure where India needs to compete with the world. CAVS IS THAT MANTRA. Join the force," said Anil Chopra.

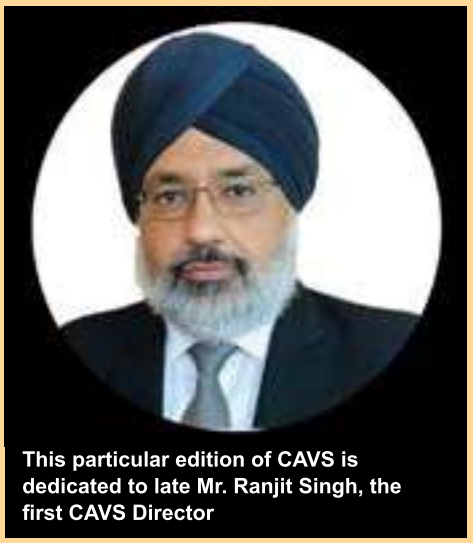
Founding Director, PALM AV-ICN Expo

Abdul Waheed, EYTE Technologies Pvt. Ltd.

Message from Abdul Waheed

Elaborating on the importance of the CAVS programme, Abdul Waheed said, "Learning should always be an important aspect of life. It is one of the major differentiating factors between winners and losers. The companies having erudite workforce prosper and shine. Post pandemic situation has made it more significant. During the lockdown situations, many institutions offered lot of training sessions and programs for people to learn and add value to their expertise. Sitting at home, they offered many opportunities to sharpen the skill sets. Many have taken advantage of it, many couldn't.

Technology is ever evolving field and to be on top of it, one always has to go through continuous learning. But when it comes to Audio Visual Technology, unfortunately there is no formal education available out in the field. There is Electronics and Telecommunication Engineering and Engineering in Computer Technology, whereas AV field is mixture of two along with the basics of Physics and Science. This is making it very difficult to get trained educated students in AV field directly from the institutes.



This particular edition of CAVS is dedicated to late Mr. Ranjit Singh, the first CAVS Director

AV dynamics are changing day by day. This pandemic has forced everyone to be at par with technology. Clients are now talking about experiences and not just about features or equipment's. Its time for us to talk in the same language and keep ourselves at par as the market dynamics are now becoming prosumer.

CAVS, Certified Audio-Visual Specialist, is a unique training program being brought to you by PALM AV-ICN expo every year. This year it is scheduled to be held in the month of May giving a wonderful opportunity to those who want to seek, learn and make career in AV field. This is equally important to the companies who have entered the AV market domain but want to have their staff to go through a formal training of AV to enhance their sales and quality of services.

Right from AV basics, the physics behind audio, the engineering behind videos, the equipment being used, and achieving integration and automation through control systems, the syllabus covers complete course of AV that a specialist in AV should possess. This is going to be a three-day classroom training program being taught by certified experience specialists who are in the field for more than 20 years.

To grow and enhance yourself in the AV industry register now for the course. Those who are interested should not miss the opportunity as the training program is coming to your doorstep!"

Register for CAVS at:
av-icnx.com/cavs/index.aspx

Studio Monitors

*This product focus features **Studio Monitors** that are essential gear to achieve great sound. Studio monitors are designed to enhance creativity in music and film production and attain accurate results. This feature is intended as a guide and does not endorse any of the products that are featured here.*

Focal Shape 65

Shape 65 is designed to meet the needs of nearfield monitoring, shape monitors combine an ingenuous design and numerous settings optimized for the acoustics of small listening rooms. The bass register is articulated and controlled. The lower mid-range and mid-range benefit from extreme neutrality, and without any masking effects, making equalization of these essential registers much easier. The new tweeter reveals precise sound in the very high end.

Main Features include:

- Frequency response (+/-3dB) 40Hz - 35kHz
- Maximum SPL (musical signal) 109dB SPL (peak @ 1m) Electronic section
- Inputs/ Impedance Type XLR: balanced 10kOhms Connectors RCA: unbalanced 10kOhms with sensitivity compensation
- Midrange and low frequency amplifier 80W, class AB
- High frequency amplifier 25W, class AB
- Automatic standby Standby on After approximately 30 minutes with no signal Standby off Signal detection > 3 mV
- Electrical supply Voltages 220-240V (T1AL / 250V fuse) or 100-120V (T2AL / 250V fuse) Connection IEC plug and detachable power cord
- Settings High pass filter Adjustable Full range 45/60/90Hz Bass (0 - 250Hz) Adjustable, +/-6dB
- Standby consumption < 0.5W
- Displays and controls LED for power on/ off and standby Transducers
- Woofer 6.5" (16,5cm) Flax Cone

- Tweeter 1" (25mm) 'M' profile Aluminum-Magnesium Cabinet
- Construction 0.6" (15mm) MDF
- Finish Vinyl, real walnut and black painting
- Dimensions with four rubber feet (HxWxD) 14 x 8.6 x 11.2" (355 x 218 x 285mm)
- Weight 28.2lb (8.5kg)
- Wall mount K&M Fixing kit 24471 + K&M 24359 adapter
- Ceiling mount K&M® Fixing kit 24496 + K&M® 24359 adapt

Genelec 8010A

The 8010A features reference performance and extended frequency response into an extremely compact package. The 8010A is a reliable monitoring companion for studios with limited space or for when you want to record on the move. A combination of enclosure, driver and electronic design gives the 8010A extremely neutral characteristics and the ability to adapt to your space via simple rear panel room compensation switches. So, whether you're in a bedroom studio, hotel room or OB van, Genelec 8010A's records audio seam-lessly.

Main Features include:

- Peak SPL: ≥105 dB (Maximum peak acoustic output per pair on top of console, at 1 m distance with music material.)
- Short term max SPL: ≥96 dB (Max. short term sine wave acoustic output on axis in half space, averaged from 100 Hz to 3 kHz, at 1m distance.)
- Long term max SPL: ≥91 dB Maximum long term RMS acoustic output in same conditions with IEC weighted noise (limited by driver unit protection circuit) @ 1m.
- Self-generated noise: ≤5 db. Self-generated noise level in free field at 1m on axis (A-weighted)
- Weight: 1.5 kg (3.3 lb)
- Height: 181 mm (7 1/8 in)
- Height with Iso-Pod: 195 mm (7 11/16 in)
- Width: 121 mm (4 3/4 in)
- Depth: 115 mm (4 17/32 in)
- Enclosure material: Die cast aluminium
- Enclosure type: Reflex port
- Bass Driver type: Cone
- Bass Diameter: 76 mm (3 in)

- Treble Driver type: Metal dome
- Treble Diameter:19 mm (3/4 in)
- 8010A Bass Amplifier: 25 W Class D
- 8010A Treble Amplifier: 25 W Class D
- Mains Voltage: 100-240 VAC 50/60Hz
- ISS Active: ≤0.5 W
- Idle: ≤5 W
- Full output: 30 W
- Input Connectors: XLR female, 7 k Ohm.
- Crossover Connectors: Bass/Treble 3000 Hz
- Harmonic distortion: 70···400 Hz ≤1 % > 400 Hz ≤0.5 %

KRK Rokit 7 G4

The ROKIT RP7 G4 bi-amp professional monitor with DSP-driven Graphic EQ with 25 settings helps condition acoustic environment while offering new levels of versatility in a studio monitor. Matching drivers made with Kevla ensures sonic integrity across all frequencies. A new scientifically designed

speaker enclosure and front-firing port offer exceptional low-end extension and accuracy, punch, and flexible room-positioning. The new powerful, yet efficient custom Class D power amplifier drives the speakers evenly at reduced operating temperatures and improves audio integrity.

Main Features of Shape 65 include:

- Available in- 5", 7", 8" (Bi-amp) and 10" (Tri-amp)
- Matching Woofer & Tweeter- Kevlar
- Amplifier- Class D power amp
- Visual- Onboard LCD visual DSP-driven EQ
- EQ Setting-25 visual Graphic EQ settings
- AMP Level- Brickwall Limiter
- Frequency Response- 42Hz - 40KHz
- Max SPL- 110 dB
- Power Output- 145 Watts
- Input Impedance- 5.12KΩ Balanced
- Balanced TRS/XLR Combo Jacks
- Height- 13.35" / 339 mm
- Width- 8.86" / 225 mm
- Depth-11.19" / 284 mm
- Weight-16.76 lb / 7.6 kg

Mackie MR824

MR Series monitors utilizes technology and acoustic tuning to deliver accuracy and clarity. The logarithmic waveguide provides an ultra-wide listening and enhanced stereo imaging while the Acoustic Space Control allows you to adjust the frequency response of the monitor to match your studio. Whether it's dialogue, hip-hop, rock, and beyond, it promotes listening with confidence knowing the mixes will sound great anywhere.

Main Features include:

- Frequency Response (- 3dB): 38 kHz - 20 kHz
- Frequency Response (-10 dB): 45 Hz - 20 kHz
- Sown Pressure, Level at 1 mater +4 dBu into Balanced Input: 107 dB SPL
- Maximum SPL Per Pair: 113 dB SPL at 1 meter.
- Low Frequency Transducer: 8.0 in / 203mm polypropylene woofer
- High Frequency Transducer: Neodymium magnet driven 1 in/ 25mm silk dome tweeter
- Low Frequency Amplifier Power: 55 watts, 4 Ω load, 110 watts peak
- High Frequency Amplifier Power: 30 watts, 6 Ω load, 60 watts peak
- Amplifiers Power: Monolithic IC, Class AB All with DM0S power stage
- Electronic crossover Type: 24 Db/Octave
- Electronic crossover Frequency: 1.9 kHz
- Sensitivity: +4 dBu at 300 kHz for full output
- Input Impendence: 20KΩ Balanced bridging; 10KΩ Unbalanced
- Power Requirements: ~100 V. 50/60 Hz
- AC Connector: 3-pin IEC 250 VAC, 15A male
- Fuse: 115 VAC: T 2 AL / 250 V
  230 VAC: T 1 AL / 250 V
- Power Consumption: 150 watts with music, loud mix
  12 watts quiescent (idle)
- Damping: Adiabatic batting
- Height: 1.57 in / 400 mm
- Width: 101 in/ 256 mm
- Depth: 12.6 in / 320mm
- Weight: 23.0 lb. / 10.4 kg

Neumann. Berlin KH 80 DSP A G EU

The KH 80 DSP enables filtering functions and room adjustment options, which brings reference level reproduction to any environment. Even with its compact design, it has reserve capacity - as well as the classic strengths with defined dispersion angle, distortion-free design and sophisticated material selection. The Ultra-compact, DSP-controlled bi-amplified near-field monitor with

exceptional power reserves mathematically and optimizes dispersion to deliver excellent detail in any surroundings.

Main features include:

- Free field frequency response ±6 dB: 53 Hz-21 kHz
- Free field frequency linearity deviation between 100 Hz and 10 kHz: ± 0.7 dB
- Sine wave output with a THD < 0.5 % at 1 m: 90 dB SPL (>200 Hz)
- Max. SPL calc. in half space at 3% THD at 1m: 108.8 dB SPL
- Analog input(s): XLR / 6.3 mm (¼") Jack: analog electronically balanced
- Analog input impedance: 14k Ohms
- Common mode rejection ratio (CMRR): >56 dB @ 15 kHz
- Volume control range resolution: 0 ··· -∞ dB; 0.1 dB
- Input gain control (sensitivity): 0 dB ... -15 dB
- Output level control (output level in 1 m based on 0 dBu input level)
- Digital converter: resolution-design: 24-bit DAC; Δ Σ
- Crossover frequency: 1.8 kHz
- Crossover slope: 48 dB/oct; 8th order with phase correction
- Mains Power Supply- input voltage- frequency: 100-240 V; 50/60 Hz
- Woofer: 100 mm (4") with protecting black metal grille
- Tweeter: 25 mm (1") with protecting black metal grille
- Mounting points: 2 x M6 threaded inserts with 70 mm spacing on back panel
- Height: 233mm – 9 1/8"
- Width: 154mm / 6"

PreSonus R80 V2s

R80 V2s is Driven by 65 watt Class A/B amp, custom-designed 6.8-square-inch Air Motion Transformer (AMT) for accurate reproduction of the high frequencies—those responsible for a sense of air, space, and dimensionality. R80 V2's woofer is eight inches of rigid, custom-woven composite that offers consistent dispersion across its frequency range for the flattest response we could design. A dedicated 75 watt Class A/B amplifier provides ample headroom and impressive distortion-free, non-fatiguing performance—even at higher volumes.

Main Features include:

- Frequency Response- 40 Hz – 22 kHz
- Crossover Frequency -2.6 kHz
- LF Amplifier Power R- Class A/B, 75W
- HF Amplifier Power- Class A/B, 65W
- Peak SPL at 1M- 107 dB
- Diaphragm- 6.8-inch2 (4,400 mm2)
- LF Driver - 8" Woven composite
- HF Driver -Type AMT Diaphragm 6.8 in2 (4400 mm2) Equivalent Diaphragm ø 3" (76 mm)
- Input Impedance Balanced- 20 kΩ
- Input Impedance Unbalanced- 10 kΩ
- Volume Range Type- A-type taper
- HF Control Settings +/- 6dB shelf @ 10kHz 12 4 Resources 4.1
- Mid-frequency Control Settings +/- 6dB @ 1kHz
- Cabinet- Vinyl-laminated, medium-density fiberboard
- Low Cut Settings Flat, 80Hz, or 100Hz
- Acoustic Space Settings Flat, -2dB or -4dB
- POWER 220-240V ~50/60 Hz
- Energy Conservation Mode- <0.5W
- Width-9.5" (241 mm)
- Height-15" (379 mm)
- Depth-12" (309 mm)
- Weight- 19.8 Lbs. (9 kg).

Yamaha HS8

HS8 Powered Studio Monitor is a two-way bass-reflex bi-amplified nearfield studio monitor with 8" cone woofer and 1" dome tweeter. The series features newly developed transducers that achieve astonishingly smooth response over a wide range of bandwidth. These transducers utilize an advanced magnetic field design that regulates the flow of magnetic response to provide seamless, natural sonic transitions. Utilizing a thick wave guide designed to minimize vibration the new tweeter is able to deliver smooth, distortion-free high end up to 30 kHz. With newly designed, ultra-responsive woofers that utilize large, carefully selected magnets, HS Series monitors produce low distortion sound with a well-defined bottom end at any output level.

Main Features include:

- System Type- 2-way bi-amp powered studio monitor
- Frequency Response- 3Hz - 30kHz
- Crossover Frequency- 2 kHz
- Transducers LF- 6.5" cone 8"
- Transducers HF- 1" dome
- Output Power LF- 60W
- Output Power HF-35W
- Input Sensitivity/ Impedance -10 dBu/ 10k ohms
- Input Connectors (Parallel)- XLR3-31 type (balanced) XLR3-31 type (balanced)
- PHONE (balanced)
- Level Control- (+4db/Center Click)
- EQ- HIGH TRIM Switch (+/- 2db at HF)
- ROOM CONTROL switch- (0/-2/-4 dB under 500Hz)
- Indicator Power ON- White LED
- Power Consumption- 55W
- Enclosure Type: Bass-reflex
- Enclosure Material: MDF
- Weight- 210 mm / 8.3"
- Height- 332 mm / 13.1"

JBL 305P MkII

Two-Way Powered 5" Studio Monitor with the unique JBL Image Control Waveguide and refined transducers, JBL 305P MkII offers detailed, precise imaging, a wide sweet spot and impressive dynamic range that enhances the critical listening capabilities of any modern workspace. Featuring patented technologies derived from the JBL 7 Series and M2 Master Reference Monitors, and sporting a sleek, modern design, JBL 305P MkII delivers commendable performance and an enjoyable mix experience at an accessible price.

Main Features include:

- Patented Image Control Waveguide for detailed imaging and a broad, room-friendly sweet spot
- Next-generation JBL transducers for optimized transient response and improved linearity

- Patented Slip Stream low-frequency port for superior bass performance at all playback levels
- Dual integrated, custom Class-D amplifiers provide 82 watts of power
- Boundary EQ settings compensate for low frequency variants
- HF Trim switch adjusts high-frequency output to room acoustics or personal preferences
- Flexible connectivity with balanced XLR and 1/4" TRS inputs, +4dBu / -10dBV input-sensitivity switch and adjustable volume control
- Engineered to JBL Linear Spatial Reference design criteria for outstanding accuracy in any working space
- Strenuous JBL 100-hour full-power test ensures years of reliability to any studio
- Maximum Continuous SPL: 94dB
- Display Carton (H x W x D): 354 x 244 x 299mm (13.9" x 9.6" x 11.8")
- Net Weight (each): 4.73 kg (10.43 lbs)
- Shipping Gross Weight: 5.72 kg (12.61 lbs)

JTS®

SIEM-111 System

Stereo In-Ear Monitoring System

961 Selectable UHF Channels
4 Groups, with Each Group Having 16 Compatible Preset Channels
All Metal Case Construction
Outstanding Signal-to-Noise Ratio

SIEM-111T
UHF PLL Single Channel Transmitter

SIEM-111R
UHF PLL Single Body-Pack Receiver

IE-1
Monitoring Earphone

UDA-49A

Active UHF Directional Antenna

- Frequency Band: 470~960 MHz
- Effective Working Angle: 100 degree
- Antenna Gain: 10dB
- Power Supply: 12V, 50mA
- Booster Gain: 3dB/10dB Selectable

UA-960

Antenna Distributor

- Full Range UHF Antenna Splitter
- Amplifies RF Signals
- Bulit-in DC Distribution
- Supports Upto 4 Wireless Receivers
- Multiple UA-960s Can Be Cascaded

JTS, a complete range of professional microphones, wireless systems and headsets.

Distributed in India by Sonotone
102, Savoy Chambers, Above Mini Cooper Showroom, Linking Road Extension, Opposite Masjid, Santacruz (West), Mumbai 400054, India
• Phone: +91-22-66439999 • Fax: +91-22-66439900 • Email: info@sonotone.in • Website: www.sonotone.in

CHRISTIE EXPANDS THE GS SERIES

Christie has announced the addition of two new models to its **1DLP projectors**. The projector is designed and built to offer both performance and reliability for high-use environments, the new Christie **GS Series** models are available in two brightness options: **9,000 ISO lumens** and **10,600 ISO lumens**, and are ideal for installations including meeting rooms, education spaces, museums, houses of worship and more.

"With their compact footprint and quiet operation, the new Christie GS Series models won't distract audiences from the bright, vibrant projected images," says **Joel St-Denis**, Director of Product Management, Christie. "For installations that require multiple projectors, such as smaller entertainment venues, places of worship and themed attractions, the included warping and blending tools will save both time and money."

The new projectors feature laser illumination, which offers 20,000 hours of consistent illumination to 50% brightness and a low total cost of operation. Christie Twist warping and blending tools are built into the new GS models, allowing for quick and easy alignment onto irregular screens for multi-projector blending. With Christie Mystique Lite, an optional camera-based alignment software that works with an inexpensive webcam, up to three horizontal projectors can be automatically stacked and aligned on a flat screen or surface in minutes, saving significant time and labor costs. Mystique Lite is available for download at no additional cost and can be easily upgraded to other tiers of Mystique software, to warp, stack and blend larger projection arrays on a more complex screen or surface.

New DLP projectors featuring 20,000 hours of consistent illumination with 50 percent brightness

The new models deliver content to suit the application, including support of HD 3D content via sync in/out, picture-in-picture or picture-by-picture for video conferencing, and DICOM mode for medical imagery. For installation flexibility, GS Series includes DVI, HDMI, HDBaseT and 3GSDI inputs.

KRAMER LAUNCHES HIGHLY SCALABLE KDS-7 AVOIP STREAMING SOLUTION

Kramer Electronics has announced the release of **KDS-7**, a full AVoIP streaming solution for anywhere that low-latency, high-quality 4K60 content distribution and switching is required. Delivering a user-friendly experience, enterprise IT-grade security and intuitive management, the KDS-7 line is a fit for Enterprise, Education, Homeland Security, Military or Government sites of any size.

Built as a complete solution, the KDS-7 product line comprises a full range of networked end points, including encoders, decoders and auto-switch encoders, as well as a dedicated manager device. It supports 1K video sources and easily scales to suit the AV needs of numerous rooms and locations, for any size business or campus. Enterprise-grade IT security, built-in to all KDS-7 devices, protects the IT network.

The KDS-7 product line expands the benefits of AVoIP. With AVoIP, the AV encoders and decoders are connected to the end-points of the organization's IP network. Leveraging the switching power of the IP network eliminates the limits on AV deployments, which would otherwise be constrained by the number of physical AV ports on hardware, and that consume a great amount of real estate and energy. This simple and reliable approach enables huge numbers of devices in a single network and makes expanding into new spaces easier and less costly.

KDS-7 AVoIP streaming solution for high-quality 4K60 content distribution

Kramer's AVoIP offerings provides optimum scalability and flexibility, with multiple solutions adopted at growing scale by Enterprise, Education, Homeland Security, Military and Government organizations. Now, with the KDS-7 line, Kramer is introducing even greater scalability and flexibility. Plug-and-play integration into any IP network speeds up deployment and significantly reduces costs. High-resolution video, support for large-scale video wall installations, and full compatibility with end-user devices, including USB-C connection for simple collaboration and simultaneous charge, ensure an outstanding experience for users.

"At Kramer we're proud to be a leader in creating AVoIP products that accelerate hybrid work, improve hybrid learning across campuses and enhance performance of command and control centers at large-scale installations," commented **Gilad Yron**, CEO Kramer Electronics. "Our new KDS-7 AVoIP product line furthers our mission, providing a superior user experience with its ability to support a large number of video sources, with low latency, fast switching, intuitive manageability and advanced security capabilities."

www.av-icnx.com/magazine/AV_Tech_News.aspx

OPTOMA UNVEILS WUXGA PROJECTOR SERIES

Optoma, a manufacturer of display products has announced its brightness professional laser projectors to-date, for high-end installations, including the entertainment, exhibition, and digital signage markets. At 16,000, 18,000 and 21,000 lumens respectively, the Optoma **Ultra Bright Series ZU1600, ZU1800** and **ZU2100 projectors** establish an incredibly high brightness benchmark to the category, as well as extreme flexibility with eight interchangeable lenses to meet the needs of even the most complex installations.

As part of Optoma's DuraCore laser line up, the Ultra Bright Series high-performance projectors feature 4K HDR compatibility, pure engine video processing and colour matching to produce visually lifelike images with exceptional detail and high colour accuracy. Additionally, the new models feature Optoma's Visual Suite software, along with an integrated camera, creating seamless setups with automatic image adjustments, warping, and calibration for consistently bright and uniformed images every time while reducing installation hours.

Strong reliability is at the core of Optoma's Ultra Bright projectors, with 24/7 operation capabilities, up to 30,000 hours of laser lifetime, and an IP5X rating for optimal and dependable performance, even under more extreme conditions up to 122 degrees Fahrenheit/50 degrees Celsius. With a robust metal chassis and modular design for easier maintenance, a multitude of connectivity options, and failsafe redundancy mode for instant source switching, the ZU1600, ZU1800 and ZU2100 projectors offer a solution for intricate installations, including multi-projector and dome projection applications.

Speaking on this occasion, **Vijay Sharma**, Country Head-India, Optoma corporation said, "We are enthralled with the launch of range of High Brightness projector series which is going to deliver an unmatchable viewing experience in PROAV solutions. We are constantly innovating to address the unique and evolving performance needs of the ProAV market, and are thrilled to enhance Optoma's award-winning projection portfolio, offering a full line-up of projector solutions ranging from 3,000 to 21,000 lumens."

The Optoma Ultra Bright Series projectors with Eight Interchangeable Lenses for flexible installations

Gordan Wu, APAC Head, Optoma Corporation added "The Ultra Bright Series ZU1600, ZU1800 and ZU2100 projectors are carefully designed additions to our extensive range of professional display products, providing customers with high brightness, flexible solutions that deliver both on price and visual performance."

PURE RESONANCE AUDIO DEBUTS WEATHER-RESISTANT S5 SURFACE MOUNT SPEAKER

Pure Resonance Audio S5 70V outdoor surface-mount speaker features frequency response of 90 - 16kHz and sensitivity of 92dB SPL

Pure Resonance Audio introduces **S5 70-volt outdoor speaker**. This multi-functional weather-resistant commercial speaker is ideal for foreground and background music, paging, and general-purpose audio in restaurants, hotels, retail stores, fitness gyms, conference rooms, schools, or anywhere needing high-quality indoor and outdoor sound.

Designed to withstand the demands of outdoor conditions, the water-resistant IP65 rating on the S5 ensures protection against direct contact with water and dust, while the ABS housing is impact-resistance. The Polypropylene (PP) cone woofer makes the S5 an outstanding outdoor commercial speaker. Low moisture absorption, UV resistance, and low distortion resulting in consistency, stability, strength, and smooth well-damped sound quality regardless of the conditions. A rubber surround ensures high performance and long-lasting durability and reliability.

The Pure Resonance Audio S5 70V outdoor surface-mount speaker produces sound quality and clarity from a resilient, long-lasting design. While handling 40 watts of continuous performance, the S5 yields a full-range frequency response of 90 - 16kHz and an average sensitivity of 92dB SPL.

Installation of the S5 is quick and easy with the included 180-degree bracket for surface mounting under awnings, overhangs, press boxes, and more. For ultimate convenience, the S5 features a built-in, easy-to-access 70-volt or 100-volt transformer tap with an 8-ohm bypass and Phoenix Euroblock 4 pin screw terminal connector.

The S5 is available in a black (S5) or white (S5W) finish, sure to be aesthetically pleasing for any indoor or outdoor commercial installation. The stylish and durable weather-resistant design makes the S5 70-volt outdoor speaker an ideal solution to create the perfect atmosphere all year.

www.palmtechnology.in/Lighting

YAMAHA UNVEILS ADECIA WIRELESS CEILING MICROPHONE & LINE ARRAY SPEAKER SOLUTION

Yamaha Unified Communications has announced **ADECIA**, a complete and intelligent microphone and line array speaker system designed to remove all barriers to equip conference rooms with superior audio quality, is now Certified for Microsoft Teams. Available immediately, the ceiling microphone & speaker system has passed Microsoft Teams' tests for medium-sized rooms, meeting the standards for natural, clear audio that defines the Teams experience.

"Today's meeting room must be flexible, easy to use, and provide superior audio for both in-person and remote participants," said **Tatsuya Umeo**, Chief Executive Officer of Yamaha Unified Communications. "ADECIA leverages our world-class acoustic technology and extensive experience working with global enterprise customers. Now with full optimization within Teams meetings, our complete and customizable audio solution enables clear and effortless conversation, regardless of location."

ADECIA conferencing solution features Dante and Analog Connections for hassle-free configurations

Albert Kooiman, Senior Director, Microsoft Teams Devices Partner Engineering and Certification at Microsoft Corp., added, "In a hybrid workplace, it is critical to have the highest quality audio. The ADECIA products bring ceiling microphone & line array speakers to medium-sized meeting room applications for all users - in-person and those joining remotely - at the best quality Teams can offer."

Yamaha's ADECIA conferencing solution is an innovative family of communication products designed to work seamlessly together to provide a complete and customizable audio solution for any meeting or learning space. The easy-install solution is comprised of four Yamaha products: the **RM-CG ceiling array microphone** and **RM-CR signal processor**, as well as Yamaha's long-trusted **PoE switches** and **VXL Series line array speakers**. Featuring Yamaha's dynamic beam tracking technology, the ADECIA ceiling microphone utilizes four beams to automatically track voices within the room simultaneously, ensuring lively conversations are picked up and delivered clearly to the far end while eliminating unwanted background noise.

The complete solution immediately detects all components of the system and configures them to be optimized for the room environment, accounting for the location of speakers and microphones, reverberation, and echo behavior. Setting up a room is done through the system's configurator in four effortless steps. With USB, Bluetooth, Dante, and analog connections, this flexible system can fit a variety of meeting spaces.

Yamaha's ADECIA is also currently available as part of a special hybrid room-ready solution from Yamaha, Lenovo, and AVer. This bundle provides organizations with all the conferencing components needed for a high-quality, hybrid meeting experience, including the Yamaha ADECIA complete audio system, AVer AM520 Pro2 conference camera, ThinkSmart Core + touchpanel and controller. These devices have been tested to integrate quickly and are Certified for Teams Rooms use. Simple to set up and use, ADECIA is a complete and simple solution designed to allow customers to initiate and control meetings, share content, and collaborate with ease.

VUWALL PRESENTS SCALABLE VIDEO WALL-OVER-IP SOLUTION

VuWall, a provider of video wall control systems and unified visualization solutions, has launched **PAK**, an innovative solution for deploying and managing modular video walls in AV-over-IP environments. PAK is a networked, multi-decode node that can operate as a stand-alone device or be stitched with other nodes to build an IP-based video wall that is infinitely scalable. It simplifies video wall project deployments by reducing the number of connections and eliminating a single point of failure, reducing project risk, and offering improved reliability.0

"If we peek behind many of today's video walls, we'd expect to see an incredible amount of expensive hardware and lengthy cable runs snaking from an overcrowded rack that takes many labor hours to deploy," said **Mark Schmidt**, Chief Technology Officer of VuWall. "Unlike traditional video wall systems, it's extremely easy to build video walls with PAK. Whether large or small, all that's required are PAK appliances. To increase the size of a video wall, simply add a PAK. The only spare component needed to keep in stock is the PAK, reducing inventory costs and project complexity."

PAK Compact Appliance Deploys & Manages Video Walls in AV-Over-IP Environments

VuWall's high-performance PAK device features four HDp60 outputs or one 4Kp60 output and multi-format decoding up to 32 HD streams per device, including H.264, MPEG2, MPEG4, NDI, PNG, JPEG and VNC/remote desktops or virtualized browsers. As part of VuWall's ecosystem, PAK is managed by the company's TRx 3.1 software platform. Easy to set up and configure, PAK is perfectly designed for multiroom visualization, situational awareness, control rooms and corporate workspaces. Its eco-friendly design boasts a compact form factor and low power consumption. PAK is small enough to be mounted behind monitors, saving rack space, and reducing extended video cable runs.

Passion creates the show

SIRIUS HRI® - spectacular, every time

For all the lighting effects imaginable, you can rely on the crisp and clean performance of SIRIUS HRI® lamps. It's the perfect light for creating a spectacular show. Experience the limitless possibilities that will amaze audiences.

See you in PALM Expo 2022 at booth no. D43

Scan above QR code to know compatible OSRAM lamp for your **lighting fixture**

10 YEARS SIRIUS HRI

ams OSRAM

For sales queries please contact: Sagar Dwivedi - 7836996673/ Naveen Kumar – 9985007143

DIRECTOUT RELEASES 3RD GENERATION ANDIAMO SERIES

DirectOut the German-based audio and connectivity manufacturer has announced the release of the third generation of its popular **ANDIAMO series**. The device comes with newly designed AD/DA Converters, network based audio and remote control.

"When we launched our first ANDIAMO in 2010, we already had the feeling that it would be a game changer", **Claudio Becker-Foss**, CEO and CTO of DirectOut remembers, "and now, twelve years later, our clients can witness the evolution of ANDIAMO to again meet their expectations for an AD/DA Converter, they can count on."

Optionally supporting network audio formats RAVENNA, Dante or SoundGrid, the 3rd generation ANDIAMO offers an amazing value of channels compared to 1U rack space. Up to 288 inputs and 288 outputs with internal routing matrix and failover redundancy using EARS.

PAK Compact Appliance Deploys & Manages Video Walls in AV-Over-IP Environments

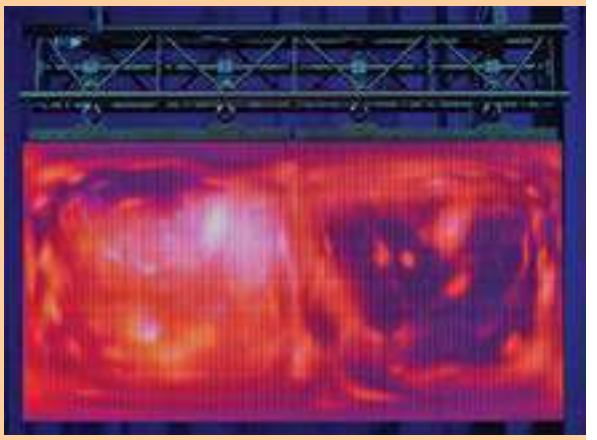
The device features eight Summing Busses, Input and Output Gains and TRIM, hardware monitoring for PSU status and temperature and of course redundant power supplies. Remote control over network is available via globcon.

"While modernizing the feature set of one of the most reliable AD/DA converters on the market, we still wanted to keep it simple", adds Becker-Foss. "Our goal was to make it possible to use the new ANDIAMO also without remote control if needed. A very straight forward bank routing, clock and I/O selection are directly accessible from the front panel."

NEW E6-N HIGH-RESOLUTION PIXEL SCREEN FROM DMT

DMT present their new **E6-N 50 x 100 cm LED pixel screen**. It is the follow up model of the popular E6. The screen has been updated and now has an on-board Novastar A5s receiver card. The indoor screen still has a light-weight frame that offers flexible mounting in five angles.

The DMT E6-N is a 1200-nits indoor LED pixel screen with a high resolution, intended for a minimum viewing distance of 6 m. Its pixel pitch is 6.25 mm, which makes for 80 x 160 pixels in one 50 x 100 cm panel. The new screen is equipped with an A5s receiver card from Novastar, offering an excellent and reliable control system. The black-face LED screen offers a high contrast ratio for an outstanding image quality and dynamic colours. Its light-weight frame keeps the total weight low (11 kg) and allows you to mount the panels in five different angles (15, 7.5, 0, -7.5, and -15 degrees), making it very versatile and flexible to rig in any shape you want. The rugged E6-N LED panel is suitable for rental applications and fixed installations.


The DMT E6-N indoor LED pixel screen integrated with Novastar A5s receiver card

ATLONA INTRODUCES HIGH-PERFORMANCE USB/BLUETOOTH SPEAKERPHONE FOR UNIFIED COMMUNICATIONS

Atlona has unveiled the first offering in its family of videoconferencing solutions. The **AT-CAP-SP100** is a USB and Bluetooth speakerphone designed for use with popular conferencing and unified communications (UC) platforms including Zoom, Microsoft Teams, Cisco, Webex, GoToMeeting and many more.

The CAP-SP100 provides microphone and speaker audio in a single, enclosure suitable for meeting rooms as well as executive and home office environments. The speakerphone provides 360-degree coverage to capture voices within a radius of up to 16 feet (five meters). Its six-element microphone array focuses audio pickup while suppressing background noises, allowing individual meeting participants to be heard clearly.

"Choosing audio and video endpoints for soft codec videoconferencing sounds like it should be easy, but with multiple USB standards and AV signal formats, compatibility issues between different vendors' devices and other AV infrastructure components may arise," said **Paul Krizan**, Product Manager – Networked AV and Audio, Atlona. "The CAP-SP100 is a fantastic speakerphone in its own right but also integrates seamlessly with the HDVS-CAM and Omega Series to enable optimized, frustration-free UC experiences. Systems integrators and end-users can now get all of the USB audio, video, and distribution components they need from Atlona, simplifying system design and ordering while ensuring interoperability."

AT-CAP-SP100 in-built six-element microphone array enhances audio pickup

The CAP-SP100's USB, Bluetooth, and analog audio connectivity provide compatibility with a wide array of computers and mobile devices. The internal battery allows the CAP-SP100 to operate for up to eight hours without a power connection and can be charged wirelessly or via USB. Bezel buttons on the CAP-SP100' provide user controls directly on the device, while LEDs display audio status and battery level.

G-2 Series

DynaTech

Professional UHF Wireless Microphone System

UHF Operating Frequency Range: 640 - 690 MHz
Two Microphones Can Be Used At The Same Time
Individual Channel Output With Level Control & Mix Output

G-2H Handheld Microphone
G-2L Bodypack
G-2R Receiver

SINCE 1991
The Ultimate Loudspeaker
Evolution in Technology,
Leads to Revolution in Music
15BM-500B
G15-400MB
12BM-300B
E10-300A

SONOTONE
Innovative Sonic Technology

Sonotone
102, Savoy Chambers, Above Mini Cooper, Linking Road
Opp. Masjid, Santacruz (West), Mumbai 400054, India
Tel: +91-22-66439999, Fax: +91-22-66439900
Email: info@sonotone.in, Website: www.sonotone.in

ADAMSON · SINCE 1991 The Ultimate Loudspeaker · JTS Professional Microphones · MARANI Digital Processors · UNIKA PROFESSIONAL AUDIO · DynaTech SUPERIOR SOUND · MACKIE · VOLITE

CHAWLA MOVIES ADDS DIGICO CONSOLE TO ITS INVENTORY

Delhi's **Chawla Movies** is an audio rental company that recently added a **DiGiCo SD10 console** to its inventory, allowing it to continue to deliver a state-of-the-art audio production service to its clients.

"Last year was a challenge for everyone, but we decided to take our time to work out how we could do things that were considered and meaningful," says **Ajay Chawla**, Managing Director, Chawla Movies. "We are still a relatively young company and in a competitive marketplace. We already had two DiGiCo SD9s, and we knew that we had to increase our inventory, adding maximum functionality and flexibility with systems that are powerful and applicable to a varied client base. DiGiCo was once again the obvious choice when looking at additional consoles."

Chawla's approach is from an engineer's point of view, and prides itself on adapting to each client's requirements, ensuring it provides solutions that will suit individual needs in demanding real-world scenarios, whether for headline touring, festivals, virtual shows, or corporate projects.

"Maximum capability and functionality were key points for us, as we never want to find our equipment unable to meet the demands of the client," continues Chawla. "We believe the SD10 and SD Rack are one of the best all-round packages available to the industry, offering the right balance of sound quality, versatility and all-round control, whether deployed at FOH or monitors. **Hi-Tech Audio Systems**, DiGiCo's Distributor for India, has been instrumental in providing us with the right solutions and has now supplied us the SD10."

Amit Kapur spearheads the audio team and is the system engineer of Chawla Movies. "I have been using DiGiCo for around eight years now," he says. "It's always been my desk of choice. My job is to make my artists sound great, and for the audience and management not to even think about the tech side of things. There is no scope for failure; I need to have 100% confidence that the gear will work every day. The way the SD10 is set out is similar to the way my head works. The workflow is so intuitive, and once you know the little tips and tricks to speed yourself up, you can fly through the setup. The SD10 is complemented by an SD-Rack running at 96kHz with full 32-bit I/O card upgrades."

Amit continues, "what I love about the SD10 is it has it all; huge sonic quality and an easy to use, intuitive, fully functional user interface. That's why I think it's the best solution for us as a facility and for me as a mix engineer. Being able to customize the SD10's layers for each artist at rehearsal, and then being able to quickly call those up during the show is what makes all the difference."

Vanshaj Sharma, Hi-Tech Audio Systems' DiGiCo Application Engineer provided product training at Chawla Movies' warehouse. "The training we had at the Chawla movies studio was a little different and spread out over two days," says Vanshaj. "The first day we covered a lot of basic setup for their on-site team to ensure they could set up the console for any event. We spent the second day trying different combinations of their DiGiCo consoles, all used in the same system. It was a very interesting in-depth training session and we all had a great time experimenting and learning."

By the end of the second day, the team had noted improved sound quality and added effects to all their recordings, with multiple outputs from the consoles delivering a controlled streaming output to various zones of Chawla Movies' RCF TT Series loudspeaker system. "We are thankful to Hi Tech Audio Systems for their continuous support during the pandemic for upgrading and maintenance of the system," says Amit.

"It's been almost a decade of our association with Chawla Movies," adds **Nirdosh Aggarwal**, Director Sales, Hi-Tech Audio Systems. "With their dedication and technical know-how, they have made their mark in live industry. Ajay Chawla and his team never cease to surprise their clients with their flexible service offerings." comments on Chawla Movies.

"Rental companies like Chawla Movies are go-getters who never compromise, even in the face of adversity," concludes **Rajan Gupta**, Director of Hi-Tech Audio Systems. "That's why their clients appreciate them so much. We are proud to partner with companies like Chawla Movies who have shown faith in our brands and have inspired the rental industry to stay strong and motivated."

Ajay Chawla, Managing Director, Chawla Movies with DiGiCo SD10 console

SHURE WELCOMES NEW SENIOR MANAGER FOR SOUTH ASIA

Shure Incorporated has announced that **Ravi Sharma** has joined the company's team in South Asia as Senior Manager. In this role, Sharma will manage and develop the business channels across India and the rest of South Asia. Sharma has 15 years of experience in the industry, previously working for companies such as Bose Professional India and Yamaha Music India.

He will also be responsible for leading the go-to-market team who are instrumental in bringing new products to the market and creating demand for solutions from Shure across markets and the region. He will Identify and execute sales and marketing strategies to address the growth potential in India and the region of South Asia.

"We are delighted to have Ravi on the team. He will help us drive the next phase of our Market Development presence in the region. With his strong experience in the industry and being based in India, he will be closer to the market to identify and act on opportunities together with the existing team in place," said **Chicco Hiranandani**, Director of Shure for Middle East, Africa and South Asia.

"I am very excited to be appointed as Senior Manager, and I can already count on an exceptional team and channel partners to help us achieve our goals, in step with the constantly changing needs of our customers and today's rapidly transforming markets," said **Ravi**.

Ravi Sharma, Senior Manager South Asia, Shure

REGISTRATION FOR INDIA'S LARGEST PRO SOUND, LIGHTING AND AUDIOVISUAL EXPO IS NOW LIVE!

SKIP THE QUEQUE AND REGISTER FOR FREE NOW AT

https://palmexpo.in/register/index.aspx

palm expo 2022

AV-ICN EXPO 2022

AV INTEGRATION COMMUNICATION NETWORKING EXPO

26 - 28.05.2022

BOMBAY EXHIBITION CENTRE,
GOREGAON (E), MUMBAI, INDIA

SHOW FEATURES

- AV-ICN SUMMIT
- CAVS – Certified AV Specialist
- palm DEMOQUBE
- palm LIVE ARENA
- palm LIVE RIGGING WORKSHOP
- INTELLIGENT LIGHTING PROJECTION DEMO
- palm 4th edition LIGHTING DESIGN SHOWCASE
- 15th recording arts awards ceremony – palm expo IRAA – Recording & Studio Equipment at PALM
- 10th edition PALM SOUND & LIGHT AWARDS
- PALM Sound & Light Summit

For more information: https://palmexpo.in/

Organised by: Hyve

DISGUISE ACQUIRES POLYGON LABS TO ENABLE CLOUD-BASED WORKFLOWS FOR BROADCASTERS

Disguise announces the acquisition of broadcast data and content visualization solutions platform, **Polygon Labs**. This is another step towards cloud-based production that will enhance disguise's workflow and address user needs in the fast-growing media production and broadcast markets.

Through its suite of software solutions and creative services, Polygon Labs offers a powerful cloud-native platform and turnkey services that have been trusted by world-leading broadcasters such as CNN, Univision, The Weather Channel and TV Globo. Polygon Labs dynamically controls and delivers high-end Unreal Engine graphics with real-time data visualizations via their cloud or on-prem solutions for some of the highest profile events including the US elections, Olympics, and FIFA World Cup.

By adding Polygon Labs to its workflow, disguise will build integrations that enable xR studios to have access to a wider range of broadcast workflows which empower remote production and cloud-based collaboration. Users of both disguise and Polygon Labs will be able to benefit from easy-to-manage, data-driven graphics workflows running fully native Unreal Engine, as well as extended design and production capability for graphics.

"I am very proud and delighted to welcome Polygon Labs to the disguise team! This is a key turning point for both our user communities, partners and customers, and a huge step in our direction towards cloud and new media production workflows. The future is cloud-based remote collaboration and our work with Polygon Labs will unlock a whole new level of productivity and connectivity for all our users," says disguise CEO, **Fernando Kufer**.

"Over the years, Polygon Labs has helped some of the biggest broadcasters turn data into engaging stories through powerful graphics and data visualisation. Joining forces with disguise will take us into the next chapter of accelerating our journey towards graphics production workflows in the cloud," says **Grigory Mindlin**, CEO at Polygon Labs.

"Our shared vision and passion for delivering the most engaging visual experiences will help us empower our users with a much more comprehensive solution to deliver the world's most engaging storytelling graphics," said, **Grigory**.

In the months to come, disguise and Polygon Labs will be working closely together to build out an integrated workflow that gives value to users across both platforms. In the near future, users can expect to achieve unified cloud-based data aggregation and graphics control that allow easy integration of broadcast workflows, as well as extended design capabilities for the creation, management and control of Augmented Reality, virtual background graphics and real-time animations for XR stages.

LINEA RESEARCH ACQUIRED BY FOCUSRITE GROUP

Focusrite a music and audio products company supplying hardware and software used by professional and amateur musicians and the entertainment industry, has announced the acquisition of **Linea Research Holdings** Ltd ("Linea"), a UK based designer and manufacturer of professional audio equipment.

Linea, headquartered in Letchworth Garden City, UK was formed in 2003 by a team of experienced professional audio specialists, and they design, develop, manufacture and market innovative professional audio equipment globally. Their products include a range of amplifiers, including M Series, together with Digital Signal Processors, audio networking and software products. Two of the original founders, Davey Smalley, Commercial Director, and Ben Ver, Engineering Director, will continue to lead the business post-acquisition.

Focusrite's subsidiary Martin Audio is a significant customer of Linea - Linea technology has the iKON amplifier series that powers Wavefront Precision line arrays seen on live tours and at festivals such as British Summer Time in Hyde Park.

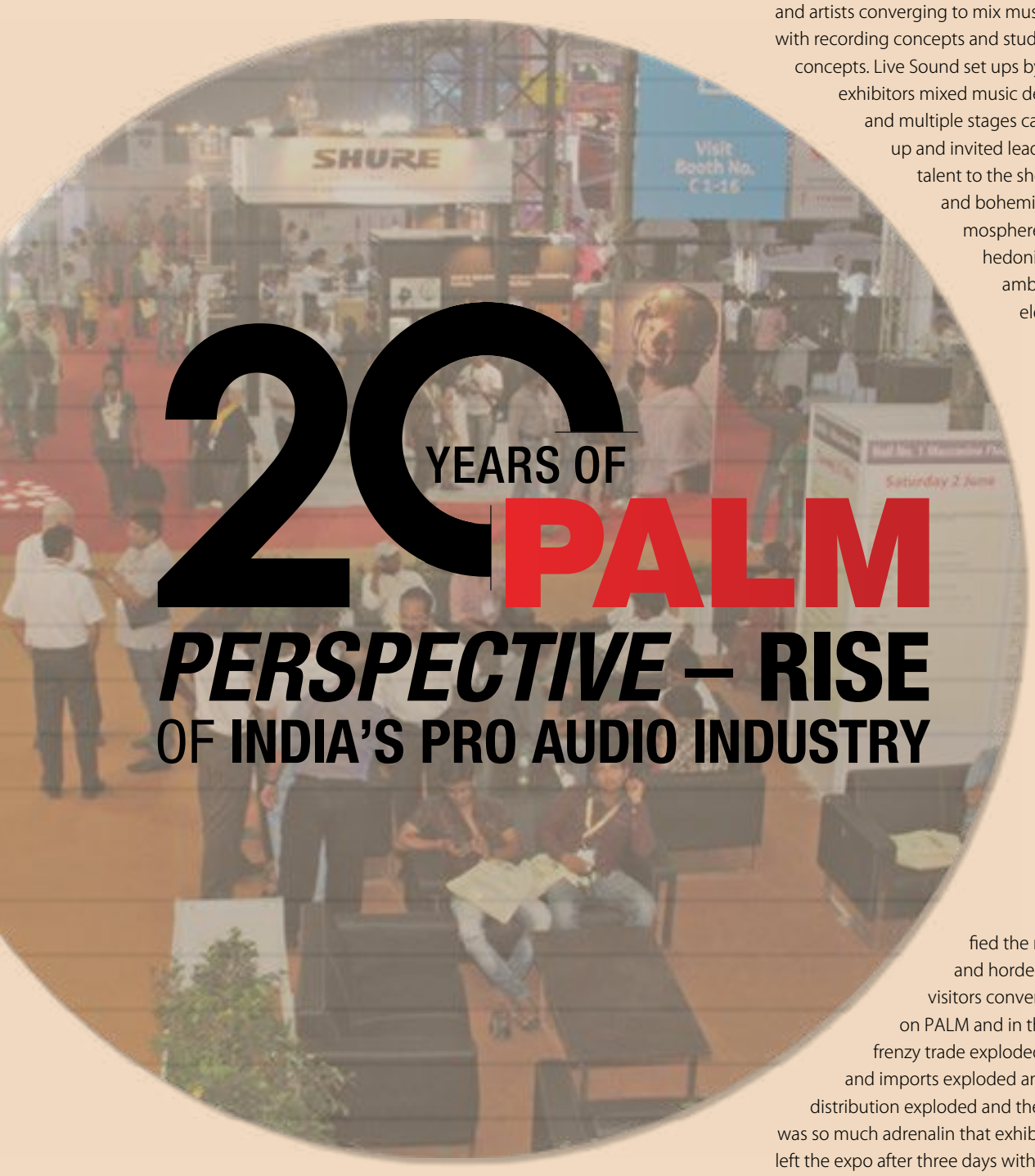
The acquisition strengthens the critical source of supply of amplifier modules for Martin Audio and will enable greater integration of loudspeaker and amplifier technology in Martin Audio products. However, it is also the intention to continue to develop the sales of Linea products through third-party distribution and to OEM loudspeaker customers.

By extending the Group's business into new products and markets, which complement its existing offerings, the acquisition is strategically aligned with the Group's previously communicated aims of growing the core customer base, expanding into new markets, and increasing lifetime value for customers.

Tim Carroll, Chief Executive Officer, said, "It is an absolute pleasure to welcome Davey, Ben and the entire Linea team to the Focusrite Group. We know the team and the business well given that Martin Audio is a major Linea customer. This will lead to many synergies and is expected to improve gross margin for both Martin Audio and the wider Group. Linea's products are globally recognised as best in class, and we are all excited about the opportunities and possibilities that lie ahead with the collective expertise of the Linea and Focusrite Group R&D and sales teams."

In a joint statement **Davey Smalley** and **Ben Ver**, Directors at Linea comments, "we are delighted to be able to continue the Linea success story from within the Focusrite Group. Having seen the support and growth of the brands within the Group, we believe this provides us with a secure foundation to further our R&D efforts and product portfolio, strengthening the Linea brand while continuing partnerships with our long-standing OEM partners. This can only be a good thing for our customers, end users and very much our staff."

www.palmtechnology.in



20 YEARS OF PALM

PERSPECTIVE – RISE OF INDIA'S PRO AUDIO INDUSTRY

PALM Expo was launched in 2001, in response to the top music recording engineers in Bombay desiring a dedicated pro audio expo. Bombay was the music recording capital and Bollywood Bombay boasted of the big studios and big sound rental companies and the beginning of the big stage. There was this earnest desire to prove India had what it takes to establish the best studios and best sound gear in the world. Pro Audio and Pro Sound industry magazine was Playback and Fast Forward and Pro Sound Systems the earlier avatars of PALM magazine. PALM just had to happen and it was a Karma trust upon PALM to produce an expo whatever it takes!! Fact is the industry responded in equal measure and ever since PALM has become an industry driven expo celebrating the mojo of the pro audio industry in India.

A.R. Rahman inaugurated the first PALM Expo; he was delighted in doing so. A.R. Rahman and his music spoke as much of sound engineering excellence and knowledge of the pro audio and PALM was ready to rock. The Rise of PALM indeed was due to the extreme enthusiasm of the pro audio industry to explore new technology, the trade was hungry to grab all the brands and introduce new product, PALM was the missing link that brought everyone together.

The next four years PALM was at **Nehru Centre** the expo venue in the heart of South Bombay. PALM was launched with **Cinema India,** its sister expo that focused on Cinema Surround Sound and Digital Cinema. PALM shifted to Nesco in 2005 expanding exhibitors and conference and seminars.

PALM growth was manifold on the exhibition floor with companies expanding their display, launching new brands each year. The global market heard of the buzz at PALM Expo and major brands came to witness the new rising market with the greatest potential.

The organizers actually allowed PALM to go wild during show dates. There was hedonistic ambience. PALM had music at the show, music instruments section, and artists converging to mix music with recording concepts and studio concepts. Live Sound set ups by exhibitors mixed music demos and multiple stages came up and invited leading talent to the show and bohemian atmosphere and hedonistic ambience electrified the market and hordes of visitors converged on PALM and in the frenzy trade exploded and imports exploded and distribution exploded and there was so much adrenalin that exhibitors left the expo after three days with crores worth of business and the professional community attending the expo grew to 25,000 no less, each one on a high after three days of innovative idea on all the latest tech experienced at the show.

In these years India's live sound and big stage acts action grew exponentially leading on sell-through sales of the top brands with big ticket budgets. PALM show rose to the moment:

The Rise of the **Line Array** and **Demo Qube** was organic. The need and demand was to be satisfied.

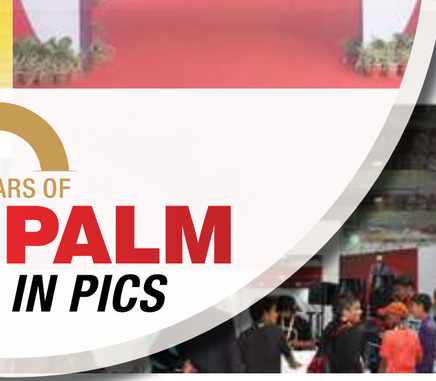
Organically PALM transformed into multi-dimensional experiential trade expo event. The Live Arena, Line Array, and Demo Qube were tremendously successful in satisfying the needs of the trade, market, talent, and buyers- rental as well installed.

Rise of PALM over twenty years evidently was also the growth of big stage rental sound and the rise of the big recording studios in the early years to today the explosion of project studios and the show going quiet and disciplined and dedicated to show casing the latest technology and innovation in pro audio. Every segment is represented-pro audio, stage sound, studio sound, install sound, surround sound, residential sound, soundtrack, post-production, music production, AV, integrated systems, lighting, display, large screen, cinema screen, and other.

Communities identified with PALM and AV-ICN the concurrent expo belong to the world PALM and having journeyed with PALM these two decades, rather 22 years, naturally seek their achievements recognized and it is natural PALM does this.

PALM Awards are cherished and do justice to the efforts of the community. RISE of PALM over a 22 year journey is the RISE of the participants. **PALM Sound and Light Awards, IRRA- Indian Recording Arts Awards, AV Architect of the Year Award** and the selection of top 50 products and the true recognition platforms that are bespoke of PALM integrity towards its communities and markets. In this respect PALM has tirelessly fulfilled its responsibility, towards the industry and markets in publishing the industry magazine **PALM Technology** since 2001. All the global news and all new product info brought to Indian readers and PALM participants.

Pro Audio industry in India enjoys very high aspirations. They industry is ambitious and have a vision to go global with their products and brands. Manufacturing in India is non-competitive due to cost and absence of exports and brands. China imports will see a decline in the next two decades with the industry decreasing their dependency on China for Pro Audio and Lighting products. 20 years of **Rise of PALM** is now to witness the growth of manufacturing of product in all sectors in India in the next 20 years.



PALM LIVE 2001 PRO AUDIO MUSICIAN EXHIBITION & CONFERENCE

20 YEARS OF PALM IN PICS

PALM CONFERENCE
palmexpo 2013
Numark
Prize sponsor
DJ REJI'S
Taster Course
Presents
SUNBURN
Session

SHURE

IES

Alphatec

NEXO

ProSoundVision
SYSTEM INTEGRATION MARKET
palmexpo 2013
May - 01 June 2013
Learn. See. Share
Pro AV

Shajith Koyeri

palmexpo 2019

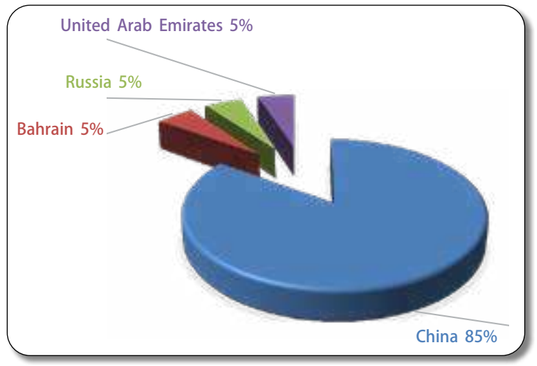
HITECHAUDIO
RCF
33
TTL33-A-II

DYNAMICS OF DEMOGRAPHICS OF 19th PALM expo and 1st AV-ICNx Expo

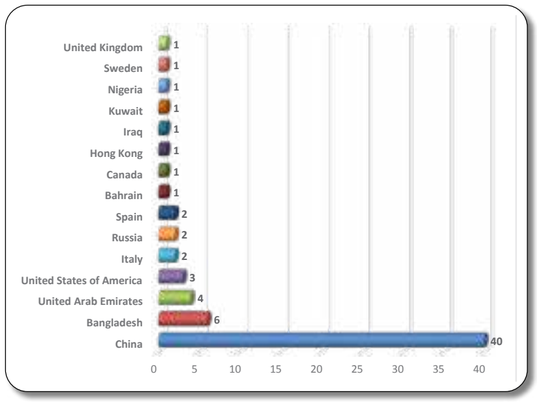
International Presence at PALM & AV-ICNx 2019

PALM AV-ICNx expo adopted a one-badge policy, wherein all visitors registering at the PALM expo registration hall or AV-ICNx expo registration hall were allowed access to all exhibit halls, demo and highlight features, conferences & summit across the entire venue.

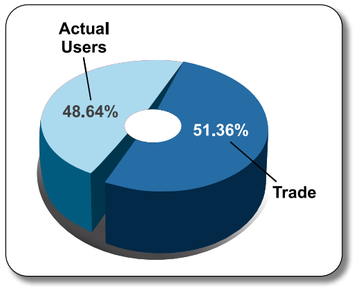
AV-ICNx



PALM



Visitor Analysis – Buyers & Sellers



AV-ICNx

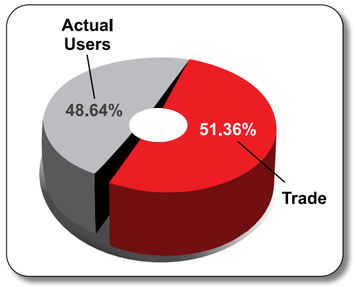
Actual Users *comprised professionals from AV Rental companies; Broadcasting & Information; Business / Corporate AV; Communications / Telecommunications; Defense; Education; Entertainment & Leisure; Finance & Banking; Government; Healthcare; Hospitality; Media / Advertising; Meetings / Events / Conventions; Venue Management; Real Estate Development / Architecture / M&E Consultancy / Facility Management; Retail*

Trade *Comprised of Manufacturer of AV equipment, systems and solutions; Manufacturers' Representative (Distributor / Dealer); Systems Integrators and AV Consultants.*

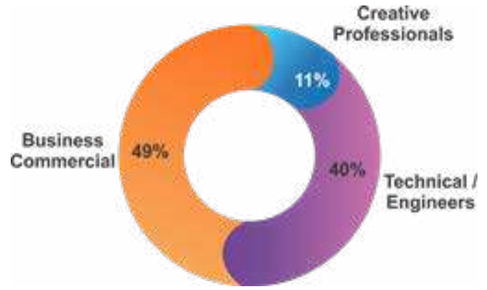
PALM

Actual Users *comprised professionals from segments which included 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)*

Trade *Comprised of Manufacturer, Distributors & Dealers; Event Management Company/Ad Agency/Entertainment Company; Stage Production Companies; Systems Integration.*



PALM Professional Analysis



Technical / Engineers *comprised of Professional Lighting Engineers, Sound Engineer, System Integrators, AV Consultant and Technicians.*

Creative Professionals *included Musicians / Artists, Set / Scenic Designers, Visual Artists / Visual Jockeys and Disc Jockeys.*

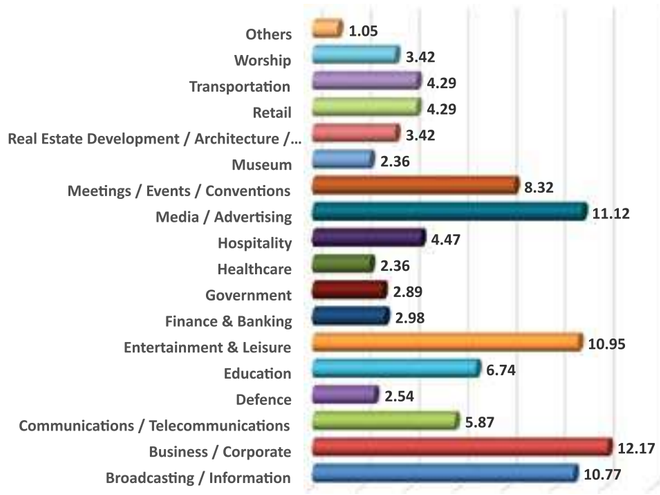
Business / Commercial *comprised of Production Manager, Project / Design Consultant, Purchase Manager, Senior Management, Systems Integrator / AV Consultant and Technician.*

Exhibitors Product Profile at PALM AV-ICNx Hall 1, 2,3

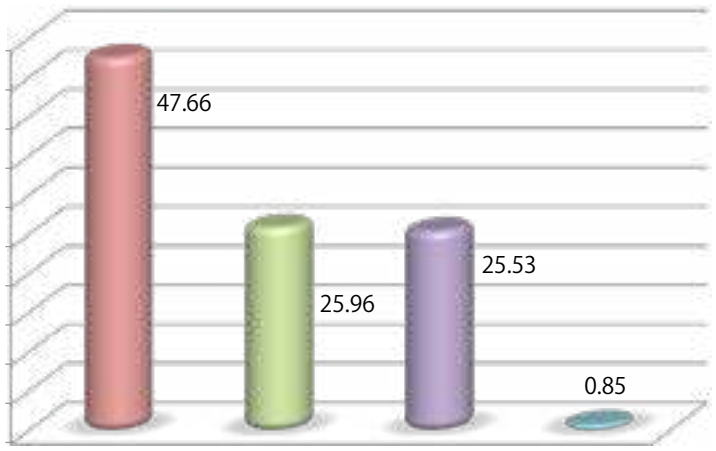
Number of Exhibitors for Each Segment across 11 halls of PALM-AVIcnx	
Product Segment	**Number of Exhibitors**
AV	60
INSTALL SOUND	102
LIGHTING	70
STAGE SOUND	138
STUDIO AND AUDIO PRODUCTION	27

Stage Sound accounted for 35% of all exhibits, while Lighting accounted for 17%, Install Sound for 26%, Audiovisual for 15% and Studio/Audio Recording & Production for 7% of all exhibits.

AV Industry Segment



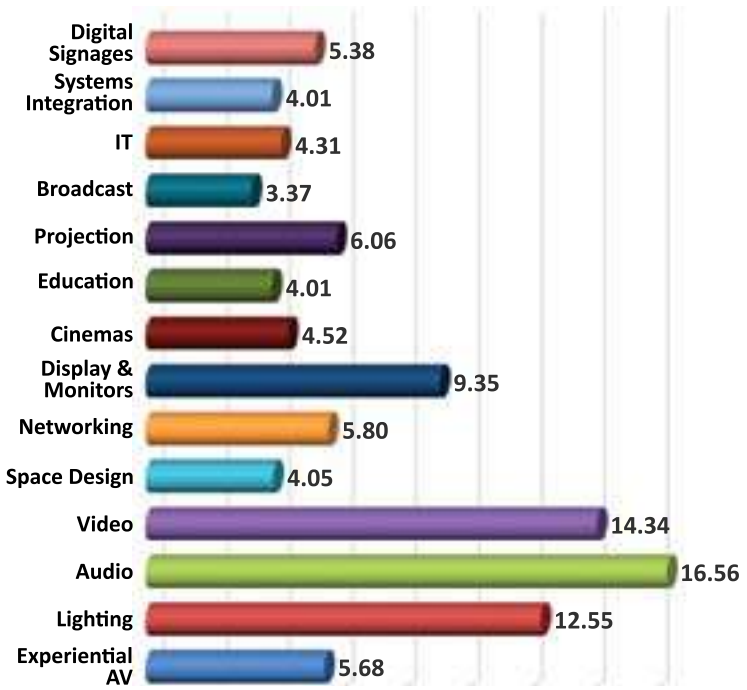
Information Technology Visitors at AV-ICNx



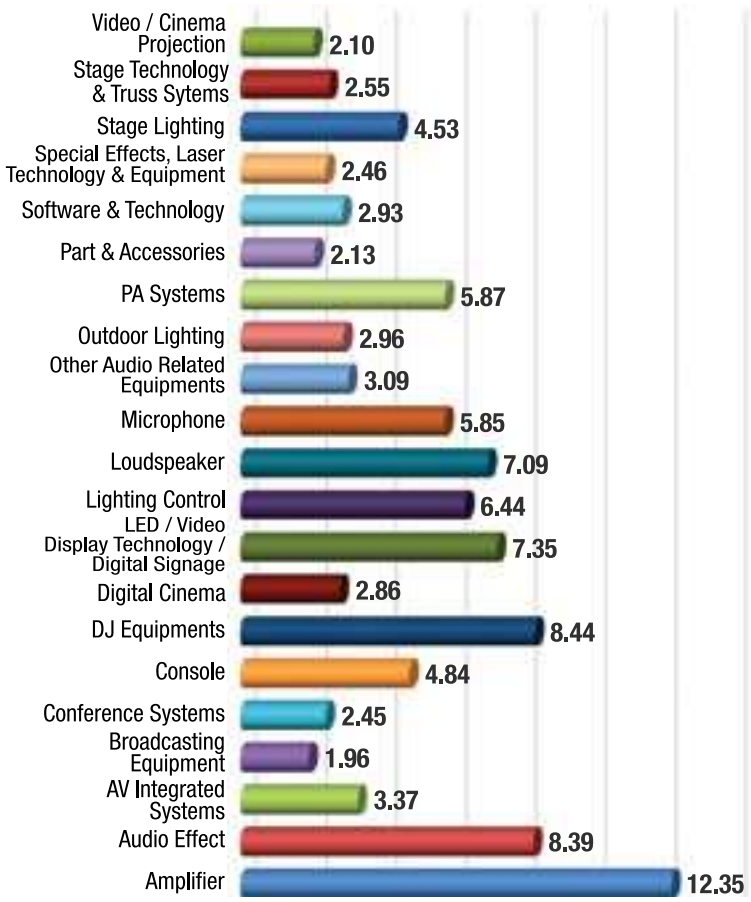
The adjoining chart classifies the Information Technology Visitors for AV-ICNx by their primary area of business focus.

- IT Systems Design & Installation
- AV -IT Manufacturers' Representative (Distributor / Dealer)
- IT Manufacturer
- Others

Products / Technologies of Visitor's Interestat AV-ICNx



Products / Technologies of Visitor's Interestat PALM



The PALM and AV-ICNx Products/Technologies charts highlight the broad gamut of technologies specified to be of interest to show visitors

PALM AV-ICN Summit 2022

CONFERENCE & SEMINAR PROGRAMME

PALM AV-ICN boasts of a three-day schedule of seminars, panels discussions and professional development forums. The PALM Summit – Conference & Seminar Programme is the industry's premier forum for sharing advances in Stage Sound, Systems Engineering, Mixing, AV technology & Trends, Light Design, Studio sound recording, mixing & production etc. The Conference programme provides holistic depth of purpose to the expo by engaging industry professionals and providing experts and thought leaders a platform to exchange knowledge and share experiences and expertise.

PALM has a history of getting world-renowned talent to the Summit platform and PALM AV-ICN 2022 will in its 20th anniversary engage a greater number of leading speakers on the PALM AV-ICN Conference Platform. The vision is to get experts and thought leaders, to facilitate discussions that will aid the advancement of the industry by preparing delegates with the latest trends and best practices in Sound, Lighting and Audiovisual. We look forward to providing an environment of learning that will keep the Indian industry on par with international counterparts. The topics chosen are going to be incisive and intelligent and focus will be on introducing the industry to new and cutting-edge technologies that will change this industry, providing a unique opportunity for future growth.

The PALM AV-ICN is also an ideal platform for networking with industry leaders, sharing information and ideas necessary to keep the industry ahead of the curve. Some interesting topics of discussion are enlisted in adjoining box.

Three-Day Schedule: 26th – 28th May, 2022

PALM Expo & Conference 2022 Keynote Address

Day: **Thursday 26 May**

Time: **11:00 AM - 11:15 AM**

State of Pro Audio, Lighting and Audiovisual Industry and PALM AV-ICN's role as a catalyst.

Speaker: **Anil Chopra**, Founding Director, PALM expo

How Good Monitor Mixing Can Boost a Performance: Insights, Tips and Tricks

Day: **Thursday 26 May**

Time: **12:15 PM - 13:00 PM**

Positioning microphone, sound-check, tuning stage monitors, attitude of the monitor mixer, monitor mixing techniques, dealing with expectations of artistes, creating space when mixing monitors for A-list artists, stage monitor vs iem - pros and cons, dealing with challenges such as occlusion effect etc.

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

Day: **Thursday 26 May**

Time: **13:15 PM - 14:00 PM**

The volatile demand for live sound solutions and challenges on inventory and changing profile of live stage events.

Speaker: **Warren Dsouza**, Founder & Managing Director · SOUND.COM / EESA Member

Dolby Atmos for Music

Day: **Friday 27 May**

Time: **12:15 PM - 13:00 PM**

This session will talk will be about Dolby Atmos and its techniques in mixing Music and Post. We will cover a quick fundamental of the technology, what to look for, how to listen, and techniques to use these details in mixing and delivering a mix

Speaker: **Sreejesh Nair**, Avid Dolby Certified Audio Application Specialist

Converging technologies that reinforce Live Events of the Future; EESA PALM TECHNOLOGY SESSION

Day: **Friday 27 May**

Time: **13:15 PM - 14:00 PM**

Tracking the increasingly evolved landscape of live events as we know it, with an emphasis on avant-garde technologies that allow show producers to assure ultra-immersive and hyper-engaging experiences to their audiences.

Speaker: **Vijay Sabhlok**, Technical Director | Event & Show Director

Best AV Architect Award

Day: **Friday 27 May**

Time: **16:30 PM - 17:15 PM**

PALM AV-ICN platform is dedicated to Audiovisual Communication and Audio Video Integration and Networking has instituted the Best AV Architect 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 **Mr. Narendra Naidu**, Chairman and Managing Director, Rhino Engineers Pvt. Ltd. has been selected as Best AV Architect 2021 for his exemplary work, knowledge of best practice in AV design for the Statue of Unity Project and other visitor attraction projects.

Getting your Studio Dolby Atmos HE ready

Day: **Saturday**

Time: **11:00 AM - 12:00 AM**

With the popularity of Dolby Atmos and the recent momentum of Dolby Atmos for Home Entertainment (HE), more and more content is being mixed and released in Dolby Atmos on the major OTT services today. This has also resulted in a growing demand for mixing facilities designed to international standards catering to Dolby Atmos HE mixes. Not everybody understands the requirement for near-field Atmos mix rooms and this session aims to throw some light on the basic design requirements for these rooms. This session will benefit all studio designers, acoustic consultants, and system integrators as well as existing studio owners contemplating upgrading their mix room.

Speaker: **Bhaskar Pal**, Content Lead - India, ME, Africa at Dolby India

AES - News Standards and Specs and Protocols applicable to Pro Audio

Day: **Thursday 26 May**

Time: **11:00 AM - 11:15 AM**

BUILDING BRIDGES: Conceptualizing a streamlined approach to organizing world-class events; ESSA PALM Panel Discussion

Day: **Saturday 28 May**

Time: **13:00 PM - 14:30 PM**

An engaging panel discussion that explores the possibilities of enhancing synergies between the event producer / event management community and the equipment rental services community, with a focus on improving communication, streamlining processes, and fortifying technical knowledge and expertise between the two communities.

IRAA 2021 Felicitation Ceremony and Open Forum

Day: **Saturday 28 May**

Time: **15:45 PM - 16:30 PM**

The Indian Recording Arts Academy Awards (IRAA) 2021 streamed live on 5th Feb 2022. IRAA announced winners across 50 categories at the ceremony, selected from amongst almost 1400 nominations received, for movies, soundtracks and albums released between 1 January 2020 and 31 December 2020. Click on link for Awards Ceremony video: **https://www.youtube.com/watch?v=QVN6r-SoobM**

The IRAA 2021 winners will be felicitated at this ceremony in the presence of Jury members. This session will also be an open forum for discussing the IRAA categories for 2022 and the evolving Independent Music scene in the country.

***All details are correct at time of going to press. Programme Schedule is subject to change. Please visit https://palmexpo.in/about_the_conference.aspx# for updated schedule**

15th recording arts awards ceremony

palm expo | IRAA

Recording & Studio Equipment at PALM

Supported by: HARMAN

IRAA 2021 a grand success

Know who won the coveted award in various categories, in this in-depth coverage of the IRAA 2021 which took place as a virtual only event. Winners across 50 categories at India's only technical excellence award for the sound recording and music production industry, represent the future of music in the country. Winners will be felicitated during PALM AV-ICN Expo 2022

> **"It is a matter of great celebration this year with IRAA having reached a very defining moment. The time has come for IRAA to take membership seriously."**
>
> **ANIL CHOPRA,**
> **Founder & Chairman, IRAA**

The **Indian Recording Arts Academy Awards (IRAA) 2021** which streamed live on **5th Feb 2022** was organised by **Hyve India Pvt. Ltd.**, leading organizer of trade exhibitions, conferences and business events in India, including the globally reputed **PALM expo**. Hyve India is a part of Hyve Group PLC which currently runs 75 market leading events in 11 countries, including USA, United Kingdom, Russia, South Africa, Turkey, Ukraine, China and India.

Despite challenges and cancellation of shows and gatherings, IRAA awards continued relentlessly into its 15th consecutive edition in a virtual avatar to deliver what is important, i.e., to recognize all those engineers and music producers who toiled untiringly behind the scenes to bring us the best "Sound & Music" of 2020.

IRAA announced winners across **50 categories** at the ceremony. The winners and final nominees represented the most talented pool of the sound engineering and music production community from across India, selected from amongst almost 1400 nominations received, for movies, soundtracks and albums released between 1 January 2020 and 31 December 2020.

Hosted by Ms. **Rishika Keshari**, the awards ceremony was streamed simultaneously on the **PALM expo** and Sudeep Audio YouTube channels. **Sudeep Audio** along with **PALM AV-ICN magazine** were the official Media Partners for IRAA 2021.

Awards Ceremony video on : https://www.youtube.com/watch?v=QVN6r-SoobM&t=1314s

Keshari started the evenings proceedings by inviting on stage, **Anil Chopra** - Founding Director of PALM expo and Founder Chairman of IRAA, **Smita Rai** - Deputy Project Director, PALM expo, **Pramod Chandorkar** - Honorary Chairman of IRAA, **Vijay Benegal** - IRAA Director 2021 and Jury member, **Mujeeb Dadarkar**.

Video messages from **Aditya Todi** - Senior Director, Sales and Marketing, HARMAN Professional Solutions, India and SAARC, **Tom Whelan** - Regional Director – Asia, at Hyve Group PLC. and **Gaurav Sood** - General Manager – India, at Hyve India Pvt. Ltd. got the tempo of the streaming going.

For the second consecutive year, the IRAA 2021 was supported by HARMAN Professional Solutions India, a global leader in studio technology boasting of an extensive catalog of signature products for the studio, from legendary brands.

Also, executing the Streaming Concept and Production of the event for the second year in a row was **NJSM Studios,** in association with **BNA Talent.**

IRAA 2021 Keynote Address

Anil Chopra, Founder & Chairman of the IRAA awards delivered the keynote address at the IRAA 2021 virtual Awards ceremony. Speaking on the occasion, he said that the idea of IRAA was born 15 years ago at the PALM expo and that he was proud that today IRAA had become globally reputed, with top engineers aspiring to an IRAA award. He thanked the august Jury members who ensured that the level of assessment was sincere and honest and complemented the Jurors on the tremendous hard work. Speaking about the nominations he said, "Each year we get more and more nominations for the IRAA awards and this in itself is redeeming. In 2021 there has been a huge change in IRAA as it is now far more dynamic than the previous years. We received 1400 nominations, i.e., 40% more nominations than last year, off which 46% were for Indie (Independent) music." Commending the explosion of Indie talent in the country he noted that one of the reasons for this explosion was the high level of music production at home, wherein home and project studios had become a part of the recording scene in India. "The response that we have received from the Indie segment just goes to prove that this segment has as much respect and aspiration for IRAA, as do the established, sound engineers and music producers who have been recording the soundtracks of major movies. This gives IRAA a lot of dynamism and scope in future and we hope and expect that in the future the nominations will cross many thousands" he said.

From l to r: Pramod Chandorkar, Smita Rai, Anil Chopra, Emcee Rishika Keshari, Vijay Benegal and Mujeeb Dadarkar

He emphasized that IRAA should have a very serious body of professionals managing the nominations, assessments, and selection of awards. "It is a matter of great celebration this year with IRAA having reached a very defining moment. The time has come for IRAA to take membership seriously," he said.

Chopra ended his keynote by throwing light on the upcoming PALM expo in May this year. "The PALM expo attracts almost 25000 professionals on its exhibit floors. There is a tremendous level of excitement on the exhibit floors. It's like an annual pilgrimage as these 25000 professionals are using cutting edge recording and live sound technology and the whole gamut of equipment involved in sound. They are there at PALM, to see new equipment. Engineers from all over the country, visit the expo and a lot of studios get generated here," he said. "We are all meeting after a two-year gap and PALM is expecting a jamboree, the likes of which have never been seen before. The whole world and all the major brands and major distributors will ensure that their latest equipment is on display," he added.

As a part of IRAA tradition of announcing the Award Director for the forthcoming year, Chopra also announced **Ashish Saksena** as the IRAA Award Director for 2022.

IRAA Assessment Process

The IRAA stands out distinctly from other film awards because of the high level of assessment and the focus on technical excellence rather than subjective opinions, budget or commercial success of the tracks and movies. Elaborating on the assessment process, Pramod Chandorkar, Honorary Chairman of IRAA said, "The assessment is getting complex year on year, reason being the great quality of work we are receiving. It feels great to see that. We have been constantly working on increasing the standards of assessment to ensure that the best one wins. The online assessment process is fool proof and has minimal or no margin of error. The selection of the winners is strictly on the basis of the quality of work. All the entries are anonymous to all the jury members. A detailed online filtering process is created, wherein each jury gives marks on individual criteria to each track. The top contenders at each stage are re-assessed by different jury members to ensure that we are being fair."

Indie Music Scene at IRAA

2020 and 2021 was a boon for music in India, as Independent music and independent artistes flourished in a country which is otherwise dominated by Bollywood. The success of Indie music in India resonates international trends, wherein audiences are now more receptive to experimental music. The growth in this segment has been remarkable and taking this into consideration, IRAA instituted a special jury, chaired by IRAA 2021 Director – **Vijay Benegal** and comprising of two new Jury members - music producer, recording engineer, multi-instrumentalist and founding partner at Cotton Press Studio - **Rohan Ramanna**, and award-nominated producer, engineer, guitarist and bassist from Ahmedabad, and also the founder of Compass Box Studio - **Raag Sethi**.

The decision to approach nominations for independent music has evidently shown results as almost 46% of the nominations received, were in the Independent music categories. Expressing his delight, Vijay Benegal said, "I'm most amazed and excited to inform you that we have received 1400 entries this year- largest number of nominees yet. This 15th Edition of IRAA Awards has received fantastic response from all over the country. Until this year the independent music category attracted very few entries so we decided we would like to expand these categories into different genres, to be as fair as possible in our assessment. A new group was introduced with me as Chair and two new jury members- Rohan Ramanna & Rag Sethi added to the team. Close to half the total number of entries this year fall into the independent music category and we hope that we would get even more next year."

Talking about his experience as IRAA Director for this edition, he said, "It was a great privilege for me as the Award Director to oversee the event this year. I'd like to thank the IRAA team and the entire Jury member for their tireless support. It has been an extremely fulfilling experience in the selection of the final winners."

> **“The online assessment process is fool proof and has minimal or no margin of error. The selection of the winners is strictly on the basis of the quality of work. All the entries are anonymous to all the jury members. ”**
>
> **PRAMOD CHANDORKAR, Honorary Chairman, IRAA 2021**

The Virtual Awards Ceremony

The awards were segregated into three main segments with the winners in Audio Engineering Segment being announced first, followed by the awards in the Music Production category and concluding with the Audio Postproduction awards.

Musical Performances at IRAA

The IRAA 2020 also featured special performances by two indie bands. The first band, **Nissima** is a multi-lingual rock band from Pune, formed by Harshad Sathe and Saket Rao in 2019. They released their eponymous 4-song E.P. the same year in July and what they performed for the IRAA streaming were three songs (**Barkhaa, Panaah** and **Nishaan**) from their second offering - a full-length album called “Panaah”! Joining Harshad and Saket for the performance was bassist Amit Gadgil

The second performance was by one of the winners, performing the winning track ***Desire***. 23-year-old songwriter and guitarist, **Chirag Todi** started his band **Heat Sink** in 2018 and his solo project in 2020. Over these years, his compositions have received national awards and several other honors. He has worked with maestros and industry titans like A.R. Rahman, Clinton Cerejo and Warren Mendonsa. For the IRAA streaming Chirag Todi teamed up with **Divyang Arora** on the drums, **Raag Sethi** on the bass, and **Protyay Chakraborty** handling vocals/ violin with **Meera Desai**.

Band Performance can be accessed on https://www.youtube.com/channel/UCv98arGvlEqWxj1zJHOl2jg

Please visit **www.iraa.in** for the videos and for more information about the awards.

IRAA Jury 2021

> **“Until this year the independent music category attracted very few entries so we decided we would like to expand these categories into different genres, to be as fair as possible in our assessment. A new group was introduced with me as Chair and two new jury members- Rohan Ramanna & Rag Sethi added to the team. Close to half the total number of entries this year fall into the independent music category, and we hope that we would get even more next year. ”**
>
> **VIJAY BENEGAL, IRAA 2021 Award Director**

Certified AV Specialist Course

Following the success of the **CAVS (Certified AV Specialist)** certification course conducted by Mr. **Ranjit Singh** in 2019, **PALM AV-ICN 2022** will once again organize the 3-day three-day certification course from **May 26 – May 28, 2022,** in Hall 1 of the Bombay Exhibition Centre, Goregaon.

The three-day certification course will be conducted by, **Abdul Waheed**, Managing Director, EYTE Technologies Pvt. Ltd. and **Arif Patil**, Principal Consultant at EYTE Technologies Pvt. Ltd.

The course aims to empower attendees with an understanding of technology and trends in AV. The CAVS Certification is aimed at providing knowledgeable manpower, replacing the 'electrician' with a 'qualified integrator' and creating a talent with specific learning for AV integration.

Course Structure:

Designing Workspaces in Changing Times

DAY 1 — GOING BACK TO BASICS

a) Basics of Audio, Video and Control
b) AV Maths
c) Design Considerations

DAY 2 — DESIGN PHASE/DESIGNING

a) Requirement Gathering (Need v/s Wants)
b) Project Flow

DAY 3 — TECHNOLOGY POST COVID

a) Shift from Professional to Consumer
b) Lifestyle and trends Post Covid
c) Technology and Experience

Training Conducted by:

ABDUL WAHEED
Managing Director,
EYTE Technologies Pvt. Ltd. (CTS-I)

ARIF PATIL
Principal Consultant,
EYTE Technologies Pvt. Ltd.
(CTS-I along with CCNA Certification

To register, visit: av-icnx.com/cavs/index.aspx

palmexpo 2022
sound ▶ light ▶ audiovisual

26 - 28.05.2022
BOMBAY EXHIBITION CENTRE,
GOREGAON (E), MUMBAI, INDIA

AV-ICN EXPO 2022
AV INTEGRATION COMMUNICATION NETWORKING EXPO

Organised by Hyve

IRAA Awards 2021 List of Winners and Nominees

INDEPENDENT SONG RECORDING & MIXING – PROGRESSIVE/ ALTERNATIVE

Winner: **Hersh Desai** for **Life, 2Pi**

Nominees: Ashish Manchanda, Aman Moroney (Hosh Ha: Alif); Santhosh Jayakaran (Vaan - The Sky)

INDEPENDENT SONG RECORDING & MIXING – ELECTRONIC

Winner: **Mervin T Thomas** for **Mer Song**

Nominees: Sujith Hydher Thaha (Open Your Eyes - Alai Payuthey Electro); Abin Paul (Manadalli)

INDEPENDENT SONG RECORDING & MIXING-ACOUSTIC/ FOLK (NON – CLASSICAL)

Winner: **Aman Arakh** for **Maana Ke (Gumaan), Yahaan**

Nominees: Abin Pushpakaran (Sandaali); Allan Samuel Vetha (Love); Shrey Kotecha (Tan Dhariya Sukhiya Kahoon Na Dekha - Saheb Ko Arpan)

INDEPENDENT SONG RECORDING & MIXING-ROCK / BLUES / METAL

Winner: **Nitin Muralikrishna** for **Kit Katt**

Nominees: Leslie Charles, Mrinal (I Love You - You're Nobody, You're Perfect); Himanshu Shirlekar (Mujhse Duur Ho Kyun); Samantha Noella (5 minute Fudge)

INDEPENDENT SONG RECORDING & MIXING - POP

Winner: **Aseem Dhaneshwar** for **Is It Sunny** (feat. Shakthisree Gopalan)

Nominees: Sujith Hydher Thaha (Marainthu Pogum); Shadab Rayeen (Woh Chaand Kahan Se Laogi); Ishit Kuberkar (Dangerous, BIGSAM)

INDEPENDENT SONG RECORDING & MIXING - RAP & HIP-HOP

Winner: **Abhishek Ghatak** for **Me and My Pen, Mr Nair**

Nominees: Sunny M.R. (Peeta Nahi); Rhitwik Raj Pathak (Paper Soap); Bhaskar Sharma (Bambai Main Ka Ba - Bhojpuri Rap)

SONG RECORDING & MIXING (FILM OR WEB RELEASE) – HINDI

Winner: **Uttam Shah** for Mann Tu - Atkan Chatkan

Nominees: Shadab Rayeen (Shayad - Love Aaj Kal); Pankaj Borah (Hayo Rabba - Thappad)

SONG RECORDING & MIXING (FILM OR WEB RELEASE) – REGIONAL

Winner: **Debojit Sengupta** for **Abar Phire Ele, Dwitiyo Purush**

Nominees: Shadab Rayeen (ButtaBomma, Vaikuntapuram); Debojit Sengupta (Je Kota Din - Duet New Mix, Dwitiyo Purush); Shadab Rayeen (Maguva Maguva, Vakeel Saab); Ishit Kuberkar (Kaadhal Theevey, Dharala Prabhu)

CLASSICAL RECORDING & MIXING

Winner: **Anand Dabre, Reena Gilbert** for **Devi Ragamala**

Nominees: Aftab Khan (Saiyaan Bol – Bhoomi 2020); KJ Singh (Ooch Apaar)

INSTRUMENTAL & FUSION RECORDING & MIXING

Winner: **Protyay Chakraborty** (Golden Monkeys- Lumiere (Live);

Nominees: Ishit Kuberkar (Thoppai Vibes, Jatayu); Kohinoor Mukherjee (Unexplored, Kaushiki's jamroom)

SOUND MIXING FOR ADVERTISEMENT

Winner: **Devang Rachh** for **Pooja Didi - Facebook**

Nominees: Jiten Solanki (Tata Tea Haryana TVC); Russel Stephen (WakeFit | The Hunt For India's - Sleep Champion); Shefinmayan (Paradise Holidays)

MUSIC PRODUCER - HINDI FILM SONG

Winner: **Prasanna Suresh, Ishan Das** for **Dancing in the Sun, Thappad**

Nominees: Ashique Elahi (Ab Na Phir Se, Hacked); Sunny M.R. & DJ Phukan (Haan Mein Galat, Love Aaj Kal)
Ishan Das (Hayo Rabba, Thappad)

MUSIC PRODUCER - REGIONAL FILM SONG

Winner: **Sreehari K Nair** for **Olu, Maniyarayile Ashokan**

Nominees: Naviin Ravindran (Lion Anthem - Kaattukkul Rajathan, God Father); Naviin Ravindran (Chella Kannanai, God Father)

MUSIC PRODUCER - WEB SERIES

Winner: **Arpit Mehta** for **Kab Tak, Dark 7 White**

Nominees: Ajay Jayanthi (Raakh, Mirzapur Season 2)

MUSIC PRODUCER INDEPENDENT - ACOUSTIC (NON – CLASSICAL)

Winner: **Meghdeep Bose** for **Maine Dekha Hai**

Nominees: Joshua Singh (Dear Mind (En Route); Samantha Noella (Wonderland Abhishek C S – Sandaali)

MUSIC PRODUCER INDEPENDENT - ELECTRONIC

Winner: **Lindsay D'Mello aka Dark Circle Factory** for **Good Vibes, Exhibit**

Nominees: Ishaan Gandhi (Destiny); Shamik Guha Roy (Bhromor)

MUSIC PRODUCER INDEPENDENT - RAP AND HIP-HOP

Winner: **Prasanna Suresh** for **Bambai Main Ka Ba, Bhojpuri Rap**

Nominees: Karan Kanchan (Divine - Satya, Punya Paap); Sunny M.R. (Peeta Nahi); Sanjeev Thomas (Not a love song)

SEE THE WHOLE ECOSYSTEM.

CREATE.
All things pre-production to post.

CONNECT.
All things distribution and delivery.

CAPITALIZE.
All things reach and ROI.

The 2022 NAB Show is an entirely reimagined experience where everything you could possibly imagine — and then some — is brought to life. We're talking the entire content lifecycle. And we're introducing INTELLIGENT CONTENT, where you'll find industry-wide transformation enabling customized, immersive content. Come along to the most highly anticipated broadcast, media and entertainment industry event...we promise you'll be in for a surprise!

IF YOU ARE IN THE BUSINESS OF STORYTELLING, THEN YOU BELONG HERE.

NAB SHOW®
Where Content Comes to Life

23 - 27 APRIL 2022
LAS VEGAS CONVENTION CENTER
NABSHOW.COM | #NABSHOW

INTERESTED IN JOINING THE INDIAN DELEGATION?

Contact NAB Show India Representative **Anushree Ramchandani** to learn all about the benefits of this popular program.
aramchandani.nabshow@gmail.com

FREE* EXHIBITS PASS AND $100 OFF a Conference Pass or Post|Production World Pass. Register with code **ID74**.

**After 10 April 2022, registration with this code will no longer offer a $100 conference pass discount and an exhibits pass will cost $50 USD.*

IMAGINED BY NAB SHOW, POWERED BY YOU.

Access exclusive curated content on NAB Amplify – an interactive digital hub that connects you to the world of media and entertainment. Sign-up is easy and free!

SIGN UP TODAY ON NABAMPLIFY.COM

NAB AMPLIFY™

DPA MICROPHONES

ON STAGE?
HOME STUDIO?

One mic is all you need

4099 Instrument Microphone

- Captures the true sound of your instrument
- Supercardioid pattern for isolation and feedback rejection
- Easy clip-on mounting
- Use wired or adapt to wireless

www.ansata.net/4099

ANSATA®

ANSATA
No. 20, 2nd Main, Horamavu Road
Bangalore - 560043

Phone : 1800 833 4228
Mobile : 97313 10443 / 96111 33540
E-mail : proaudio@ansata.net

MUSIC PRODUCER INDEPENDENT - ROCK / BLUES / METAL

Winner: **Leslie Charles**for **(I Love You, You're Nobody, You're Perfect)**

Nominees: Raag Sethi (Be Easy); Leslie Charles (Beyond This Me and You Thing, You're Nobody, You're Perfect); Leslie Charles (Tilt, Single by Thermal And A Quarter)

MUSIC PRODUCER INDEPENDENT - PROGRESSIVE/ ALTERNATIVE

Winner: **Ishan Das, Anubhav Gogoi, Nawaz Hussian & Vivian D'Souza** for **Kukuha, Anurag Saikia Collective**

Nominees: Second Sight (Dim Lights, Coral); Vikramjit Banerje (Heroes The Epilogue)

MUSIC PRODUCER INDEPENDENT – INSTRUMENTAL & FUSION

Winner: **Shitalchandra Kulkarni** for **Natural Understanding, Endless**

Nominees: George Joseph (Sakhiye, Sakhiye); Sandeep Chowta (Yetto Velli Chapter Two, Yetto Velli Diaries); Project Hamsadhwani (Barkhaa ft. Anvitha Dharmeshwar, Disconnect)

MUSIC PRODUCER INDEPENDENT - POP

Winner: **Divyang Arora** for **Desire**

Nominees: Siddhant Bhosle (Din aur Raatein); Siddhant Bhosle (Fida Krina Shah – Landfill - Savera)

DIALOGUE EDITOR / ADR ENGINEER (FILM OR WEB RELEASE) - HINDI

Winner: **Shantanu Yennemadi** for **Thappad**

Nominees: Pranit Purao (Dolly Kitty Aur Woh Chamakte Sitare); Lochan Kanvinde (Tanhaji: The Unsung Warrior)

DIALOGUE EDITOR / ADR ENGINEER (FILM OR WEB RELEASE) - REGIONAL

Winner: **Dattaprasad Desai** for **Golkeri**

Nominees: Aravind Vijayakumar (Prawaas); Tony Babu (Trance)

DIALOGUE EDITOR / ADR ENGINEER FOR WEB SERIES - HINDI

Winner: **Sidhardh Ramesh** for **Jamtara**

Nominees: Robin Kunjukutty (Paatal Lok); Shantanu Yennemadi (Masaba Masaba); Robin Kunjukutty (Suraj Pe Mangal Bhari)

DIALOGUE EDITOR / ADR ENGINEER FOR SHORT FILMS

Winner: **Abhijeet Vishwanath Sapre for Vikat**

Nominees: Pritish Kumar Chai (Songs From A Faraway Land); Baylon Fonseca (Ghost Stories - The Zoya Akhtar Chapter)

FOLEY ARTIST (FILM OR WEB RELEASE) - HINDI

Winner: **Mohammad Iqbal** for **Choked**

Nominees: Rahul Kunkerkar, Raashid Khan (Tanhaji: The Unsung Warrior); Rahul Kunerkar, Raashid Khan – Thappad

FOLEY ARTIST (FILM OR WEB RELEASE) - REGIONAL

Winner: **Sulthan Ibrahim, Jagadeesh, Khadar Baasha** for **Andhagaaram**

Nominees: Mohammad Iqbal (Dhurala); Mohammad Iqbal (Prawaas)

FOLEY ARTIST FOR WEB SERIES

Winner: **Manoj Yadav** for **Mirzapur Season 2**

Nominees: Jeetu Singh (ABHAY2); Manoj Yadav (Jamtara)

FOLEY ARTIST FOR SHORT FILMS

Winner: **Karan Arjun Singh, Shankar Singh,** for **Ghost Stories - The Zoya**; **Anil Pawar, Baylon Fonseca** for **Akhtar Chapter Shameer**

Nominees: Ahammed (Numen)

FOLEY ENGINEER (FILM OR WEB RELEASE) - HINDI

Winner: **Amandeep Singh for** Choked

Nominees: Prasad Chavan (Tanhaji: The Unsung Warrior); Amandeep Singh (Thappad)

FOLEY ENGINEER (FILM OR WEB RELEASE) REGIONAL

Winner: **Sreesan G** for Andhagaaram

Nominees: Sarath Kumar M, SP Narayanan (Kappela) Santosh Gupta, Difui Jyoti, Amandeep Singh (Prawaas)

FOLEY ENGINEER FOR SHORT FILMS

Winner: **Karan Arjun Singh, Ram Kishan Nath** for **Ghost Stories - The Zoya Akhtar Chapter**

Nominees: Hiru Paban (Chand Mubarak - Unpaused); Shijomon George (Numen)

FOLEY ENGINEER - WEB SERIES

Winner: **Hiru Paban** for Mirzapur Season 2

Nominees: Hiru Paban (High); Abhijeet Vishwanath Sapre (Scam 1992: The Harshad Mehta Story); Abhijeet Vishwanath Sapre (Paurashpur); Muhammed Ashique; Dattaprasad Desai (State of Siege: 26/11)

SOUND DESIGNER (FILM OR WEB RELEASE) - HINDI

Winner: **Shijin Melvin Hutton, Abhishek Nair** for **Ludo**

Nominees: Gautam Nair (Choked); Lochan Kanvinde (Tanhaji: The Unsung Warrior)

SOUND DESIGNER (FILM OR WEB RELEASE) - REGIONAL

Winner: **Sankaran AS and KC Sidharthan** for Kappela

Nominees: Varun Venkataraman (Vaanam Kottattum); Vishnu PC & Arun S Mani (Kalla Nottam (False Eye)); Vijay Rathinam (Nishabdham)

SOUND DESIGNER FOR WEB SERIES - HINDI

Winner: **Arun Nambiar** for **Abhay 2**

Nominees: Manik Batra (Class Of '83); Subash Sahoo (Aarya)

SOUND DESIGNER FOR SHORT FILMS

Winner: **Robin Kunjukutty** for **Numen**

Nominees: Baylon Fonseca (Ghost Stories - The Zoya Akhtar Chapter) Pranit Purao (Hichki); Pritish Kumar Chai (Songs From A Faraway Land)

SOUND EDITOR EFFECTS & AMBIENCE (FILM OR WEB RELEASE) - HINDI

Winner **Shijin Melvin Hutton, Abhishek Nair** for **LUDO**

Nominees: Kunal Sharma (AK vs AK) Siddhesh Sardesai, Surabhi Pandit (Tanhaji: The Unsung Warrior)

SOUND EDITOR EFFECTS & AMBIENCE (FILM OR WEB RELEASE) REGIONAL

Winner: **Sankaran AS, KC Sidharthan** for **Kappela**

Nominees: Arun Varma (Halal Love Story); Avinash Sonawane, Yash Shinde (Dhurala)

SOUND EDITOR EFFECTS & AMBIENCE FOR WEB SERIES

Winner: **Teja Asgk** for **Abhay Season 2**

Nominees: Imran Shaikh, Amarjit Barman (Breathe: Into the Shadows)

SOUND EDITOR EFFECTS & AMBIENCE FOR SHORT FILMS

Winner: **Jithin Joseph** for **Numen**

Nominees: Pritish Kumar Chai (Songs From A Faraway Land); Baylon Fonseca (Ghost Stories - The Zoya Akhtar Chapter)

MIXING (FILM OR WEB RELEASE) - HINDI

Winner: **Gandhar Mokashi** for **Lootcase**

Nominees: Pranit Purao (Dolly Kitty Aur Woh Chamakte Sitare); Alok Dey (Panga)

MIXING (FILM OR WEB RELEASE) - REGIONAL

Winner: **S Sivakumar, Varun Venkataraman** for **Vaanam Kottattum**

Nominees: Vishnu PC (Kalla Nottam-False Eye); Vishnu Sujathan (Kappela); A M Rahmathulla (Nishabdham)

WEB SERIES MIXING

Winner: **Anish Poduval** for **Abhay 2**

Nominees: Boby John (Jamtara); Vishnu Das (Breathe: Into the Shadowsapter)

SHORT FILMS MIXING

Winner: **Robin Kunjukutty** for **Numen**

Nominees: Baylon Fonseca, Mokashi Gandhar, Farhad Dadyburjor (Ghost Stories - The Zoya Akhtar Chapter)

DOCUMENTARIES MIXING

Winner: **Robin Kunjukutty** for **Lockdown: India Fights Coronavirus**

Nominees: Baylon Fonseca, Mokashi Gandhar (Rooting For Roona); Avinash Sonawane (Anonymous)

SYNC SOUND RECORDING - SHORT FILMS

Winner: **Baylon Fonseca** for **Ghost Stories - The Zoya Akhtar Chapter**

Nominees: Imtiyaz Jumnalkar (Avaghe Dharu Supantha)

SYNC SOUND RECORDING (FILM OR WEB RELEASE) - HINDI

Winner : **Lochan Kanvinde** for **Lootcase**

Nominees: Dhiman Karmakar (Love Aaj Kal); Dhiman Karmakar (Panga); Dhiman Karmakar (Bamfaad)

SYNC SOUND RECORDING WEB SERIES

Winner: **Bhabani Mallick** for **Jamtara**

Nominees: Manik Barta (Breathe: Into the Shadows) Akshay Sathe (Aani Kay Hava Season 2)

Streaming Concept and Production by

NJSM

BNA TALENT

Media Partner

sudeepaudio.com

IRAA 2021 Felicitation Ceremony and Open Forum

The Indian Recording Arts Academy Awards (IRAA) 2021 which streamed live on 5th Feb 2022 in a virtual avatar. IRAA announced winners across 50 categories at the ceremony, selected from amongst almost 1400 nominations received, for movies, soundtracks and albums released between 1 January 2020 and 31 December 2020. The IRAA 2021 winners will be felicitated in the presence of Jury members at a Felicitation ceremony to be held on **28th May, 2022** on the PALM Sound Light Summit – Conference & Seminar Programme platform. This session will also be an open forum for discussing the IRAA categories for 2022 and the evolving Independent Music scene in the country.

SENNHEISER GROUP INVESTS IN ITS PRO AUDIO, BUSINESS COMMUNICATION AND NEUMANN. BERLIN BUSINESS UNITS

Sennheiser will now once again be concentrating fully on the **professional business**. With its three business units, Pro Audio, Business Communication and Neumann. Berlin, the Sennheiser Group aims to achieve sustainable growth and further expand its strong global position as a provider of professional audio solutions. The Consumer Electronics business that was previously part of the Sennheiser Group has been fully transferred to **Sonova Holding AG** - one of the providers of hearing solutions - effective March 1, 2022.

"In the future, we will focus our resources and financial strength on our Pro Audio, Business Communication, and Neumann business units. Here, we plan to grow at an above-average rate, further expand our position in the global market, and successively extend our business areas," explains **Daniel Sennheiser**, Co-CEO of Sennheiser. "From now on, we are looking forward to working even more closely with our customers in the professional sector and being even closer to the market. This is where we will leverage all of our knowledge and extensive expertise as one of the world's leading companies in the audio industry," adds **Andreas Sennheiser**, Co-CEO of Sennheiser.

In recent years, the Sennheiser Group has laid all the foundations for a successful future as a professional audio company. "We have transformed the company and - despite the pandemic - can look back on a very successful financial year: we were not only able to meet our sales targets for 2021 in all business areas, but even exceeded our own expectations despite the fact that the event industry in particular remained characterized by uncertainty for the second year in a row due to the Covid-19 pandemic," comments Daniel.

Describing the Sennheiser Group's clear goals for the future Andreas explains: "As a family-owned company, we want to grow sustainably through our own efforts. To achieve this, we are investing significantly in our three business units."

In the Pro Audio unit, the audio specialist plans to continue to exceed the high expectations of its customers in the live and broadcast business with reliable audio solutions and first-class sound quality. The range will be expanded with complementary software solutions for optimal workflows. Sennheiser sees growth opportunities particularly in the fast-growing markets for semi-professional applications, such as audio-for-video.

In the Business Communications unit, Sennheiser will expand its portfolio of audio solutions for universities and corporate meeting rooms in the coming years. The goal is to be present with Sennheiser products in most the world's lecture halls and meeting rooms and to offer customers solutions that are not only audibly better and easier to use, but in particular address the challenges of hybrid working and learning.

With its products, Neumann.Berlin is a brand for studio-quality audio solutions. This business area is to be expanded in the future with a strong focus on digital workflows and extended software and service solutions, as well as with new product offerings, for example for close miking of instruments. Growth opportunities also arise from new customer requirements in the areas of mobile working, streaming, and immersive audio.

With Sonova - a provider of hearing solutions - Sennheiser has found a strong partner who has fully taken over the Consumer business and will further expand it. Following the sale, Sennheiser and Sonova's Consumer Hearing business will operate together under the Sennheiser brand umbrella. A long-term license agreement has been agreed with Sonova for the use of the Sennheiser brand.

INDIAN SUPER LEAGUE FOOTBALL CHOOSES TELLYO FOR FAN ENGAGEMENT

The Hero Indian Super League is India's top tier football league and was created to boost the popularity of the sport in India, a country that has traditionally been dominated by sports such as cricket and field hockey. With the league's popularity growing and the number of competing clubs rising from eight to eleven, fan engagement has become a key focus for the league organisers and they recently turned to **Tellyo** and the **Tellyo Pro solution** to help optimise their social media content strategy.

"We needed a robust, efficient and cost effective media solution that would allow us to facilitate the dissemination of our match content across different social media platforms quickly," notes a spokesperson for Football Sports Development Limited. "Tellyo Pro works like a dream within our existing workflow allowing the social team to access match content remotely from across the country".

Tellyo, CEO, **Richard Colins** is delighted to add another prestigious name to the growing list of sports brands supported by the company. "We know that huge investment has gone into the Indian Super League and it's great to see the league owners placing so much emphasis on fan engagement. Tellyo is very proud to be helping power the 2021-2022 league season's digital and social content strategy, and we look forward to an exciting competition with plenty of goals and drama".

SUGANDAR HOUSE OF SOUND & LIGHT ACQUIRES ADAMSON E-SERIES

Bangalore based **Sugandar House of Sound & Light** has recently joined the **Adamson E-Series** network with the purchase of twelve **E12 3-way line array** enclosures and sixteen **E119 subwoofers**, along with seven **Lab.gruppen 20,000W PLM20K44 amplifiers**.

"Our firm prides itself on 'keeping its ear to the ground' in order to keep abreast of current trends and developments," say **Shiva Kumar** and **Prabhakar** of Sugandar. "We are constantly looking to improve our operational system and maintain the highest international benchmarks; Adamson helps us attain that vision of becoming the solutions provider of choice for all major events in the city. The E-Series is a great-sound system with high-fidelity, phase coherence, and clarity. It offers a lot of punch and is easy to use and looks great! We're thrilled to join the Adamson Network as we continue to expand and provide our clients the latest, international-standard equipment."

Sugandar House of Sound & Light was established in 1958 and has since become Bengaluru's technical supplier for state-of-the-art equipment. Over the years, Sugandar has evolved from a small sound and lighting company to offering the widest range of services - from sophisticated audio, lighting, video, structures, power, rigging, to audio visual.

Sugandar House upgrades inventory with Adamson E-series

MEGA SOUND INDIA UPGRADES ITS INVENTORY WITH RCF TTL33-A

Udaipur-based **Mega Sound India** has ramped up their inventory with **TTL33-A MK-II** compact active three-way enclosures. A total of **12 TTL33-A** along with subwoofers has been purchased by **Siddharth Chauhan**, Director of Mega Sound from RCF's distributor **Hi-Tech Audio Systems** Pvt. Ltd.

As one of the leading rental companies of India, Mega Sound has marked its presence with noteworthy live production support. Siddharth was confident to invest in the compact size RCF TTL33-A MK-II series as he is aware of the popularity of the system globally. "We already own various RCF products like HDL series, RCF 4 Pro and active two-way arrays like Evox series. Our inventory offers the client a plethora of choices for any format events or live gigs", says Siddharth. He further continues, "Superb compact design, high sound quality, the weight and the ease of configuration and setting up the system made me go for RCF TTL33 as my recent investment. This mini-array will be a mega boost for our business for sure."

Since Udaipur is considered the royal destination for weddings, event management companies curate exclusive live shows for their clients. Popular Bollywood and independent artists are in demand at big fat Indian weddings. Mega Sound India has executed numerous grand weddings in and around Udaipur, Rajasthan. The latest TT+ investment was to keep pace with demand and enable Mega Sound to cover the ever-increasing workload.

"Siddharth and his team understand the market by working closely with their clients. Siddharth is a well-informed entrepreneur who purchased the TTL33-A after proper research and study. As a distributor, we are very confident when clients like Mega Sound invest in our brands and take them to the next level of recognition in India. We are delighted that Mega Sound has made this commitment, and we can be a part of their success story. We have been with them over the years and watched them become a top-line rental company," says **Rajan Gupta**, Director of Hi-Tech Audio Systems,

"We have known Siddharth for years now. In the past, they have done some massive live shows and grand weddings with their existing RCF inventory. The latest addition of TTL33A MK-II is a game-changing decision taken by Mega Sound to stay ahead of the curve. Hopefully, this latest purchase of TTL33 by Mega Sound will open up a new sales avenue for us to enter Northern India with TT+ series," concludes **Nirdosh Aggarwal**, Director Sales, Hi-Tech Audio Systems.

Mega Sound India adds TTL33-A MK-II compact active three-way enclosures for live production support

DELHI'S LED SOLUTIONS MAKE SOUND INVESTMENT IN DLIVE

Delhi based **LED Solutions**, an AV rental company, upgrades its inventory with **Allen & Heath dLive system.** LED Solutions provides solutions to its customers, including several top Bollywood artists.

The company wanted to upgrade its inventory with a new audio mixing platform with cutting edge performance whilst still delivering a return on investment. To meet this demand, the company invested in an Allen & Heath dLive system comprising a **36 fader S7000 Surface** partnered with a **DM32 MixRack, plus GX4816** and **DX168 Audio Expanders.**

Sun Infonet, Allen & Heath's exclusive distributor in India, provided the system and post-sales support to LED Solutions, including a training visit from **Kallol Nath**, their Senior Applications Engineer.

"dLive has proven to be a game-changer with a winning combination of features and workflow. The onboard DEEP processing and the team at LED got all the processing they need without any requirement for external hardware," said Kallol.

LED Solutions team with Allen & Heath dLive audio mixing system

"dLive has gained popularity across the world and has become the choice of many sound engineers" explains **Vikrant Jain**, Owner of LED Solutions. "The demand for dLive in India has now made it essential for us to have this console in our rental inventory".

As with all dLive MixRacks, the DM32 is built around Allen & Heath's **160x64 XCVI FPGA engine** which provides 128 input processing channels and ultra-low 0.7ms latency, all at 96kHz with variable bit-depth. The DM32 offers 32 mic/line inputs and 16 line outputs which can be augmented via the use of audio expanders such as the DX168 and GX4816. The DX168 provides 16 XLR inputs and 8 XLR outputs in a rugged stagebox format, whilst the GX4816 adds 48 XLR inputs and 16 XLR outputs to a system in a 5U footprint.

Chaitanya Jain, Engineer, and son of Vikrant, along with in-house engineers **Ayush Ratan** and **Sandeep Kumar,** all expressed happiness with the new arrival. "You can quickly create your own workflow and easily modify show files for different events, and the LED lighting integrated into the Surface makes your work enjoyable," said, Chaitanya. Ayush adds "I love being able to monitor battery levels of Shure and Sennheiser wireless systems from the Surface."

"LED Solutions already had top-class AV equipment in their inventory but adding this dLive system expands their horizons even further and delivers incredible ROI," comments Kallol. "The team were very excited by the training and deeply interested in the features of the system, and we wish them all the luck to excel in their upcoming events."

AUTOMOTIVE MANUFACTURER AAMP GLOBAL ACQUIRES AUDIOCONTROL

AAMP Global, a designer and manufacturer of vehicle solutions, has acquired **AudioControl**, known for high-performance audio solutions engineered for the automotive, residential, and commercial markets. Based in Seattle, WA for over 45 years, AudioControl will continue to provide entertainment solutions to automotive aftermarket installers, professional audio/video specialists and home technology integrators.

"As an engineering-based provider of premium entertainment solutions supported by award-winning service, AudioControl is a natural fit as part of the AAMP Global brand," said President and Chief Executive Officer, **Scott Forst**. "These core competencies combined with AAMP's unique vehicle integration capabilities and best-in-class service will help to position us as a leader in the core audio market. Alex and team will be driving this exciting initiative and we couldn't be more pleased to welcome them to the AAMP family."

AAMP's President of North America, **Herb Brown**, stated, "We believe embedding our vehicle integration platform with AudioControl's world-class electronics, will be game-changing for the industry."

AudioControl CEO, **Alex Camara,** will join the AAMP Global leadership team, heading the organization's audio growth strategy for the automotive and residential businesses. AudioControl's residential, commercial, and home theater products, sold and installed by home theater specialists and professional installers, will benefit from access to AAMP Global technology platforms under the continued guidance of AudioControl's current management team.

"We are excited to bring our industry-leading audio products across all the channels we serve to the AAMP Global brand," said Alex. "We have experienced an unprecedented level of growth over recent years, and by joining with the team at AAMP Global, we will have the resources to maintain that trajectory, quicken our product development roadmap, and expand operations to best serve our customers, and continue making good sound great!"

av-icnx.com/magazine/Industry-News.aspx

Post Pandemic Video Conferencing Rise

***Abdul Waheed** is the Managing Director at EYTE Technologies. A CTS holder from Avixa, Member of the Certificate Committee of AVIXA, has been in the AV industry for more than two decades, delivering many successful projects across various segments. Abdul gives his overview of the video-conferencing industry and the latest market trends*

Communication, the human connection is the key to personal and professional success. It is very important to have effective communication. John Powell says, "Communication works for those who work at it."

During Pandemic, when the entire world went under lockdown, businesses were kept alive using the communication tools only. Since then, the usage graph of VC usage is increasing every day. Video conferencing statistics reveal that video call is becoming an essential business tool rather than an optional innovation.

Astonishing, Video conferencing stats shows that the Video Conferencing market is increasing with an annual growth rate of 11.4%. VC calls have seen a 535% rise in daily traffic in 2020. Earlier days only hardware-based solutions working on SIP protocols were available ruling the VC world with their strict protocols and proprietary systems leveraging the monopoly in the business.

Every school is now talking about Hybrid solutions which enables them to take physical as well as virtual classes. The extensive usage by common people has now given importance to the user experience. The concept of eye-to-eye contact, echo cancellations, and better acoustics considerations are getting more important than ever.

Manufacturers are bringing forward the latest upgrades and features in video conferencing cameras. Even small cameras can cover the wider angle, and many automatically frame the participants during video conferencing. Cameras also have the speaker tracking feature, which means the camera lens will focus on the presenter who is speaking, AI technologies are enhancing day by day.

Microphone audio reinforcement will be at the far end, and currently, microphones are also available with Acoustic Eco Cancellation (AEC).

Video Conferencing Monopoly

Lately, when the world started moving towards 5G the software solutions started becoming more popular so much so that they made Video calls easy and cheap and people started using them for personal usage via WhatsApp, google meet and free zoom calls etc. It's now part of everyone's daily routine be it in a personal Video call or professional VC meetings.

During the pandemic, the businesses started opting for software options that only demands a good, third party camera or headphone cost, skipping the expensive Codec, cameras, accessories etc against a hardware unit. The software-based VC works on simple Wi-Fi data available as little as 1-2Mb for a good call.

The strict encryptions and security measures made it more secure communication and have made this popular for business usage. This became so common and effective that many banking sector organisation changed their security policies adapting software-based solutions.

WFH became effective and so is the overhead expenditure savings by the business segments. Now months after the third wave the WFH has become a part of the working style for many organisations. So much so that the new office designs are reducing the number of dedicated employee seats converting them to hot-desking and there is an increase in the number of meeting rooms calling for cloud-based VC solutions in every room even if it is a 3 or 4 seater room.

And that is not a burden on budget as it just calls for a simple camera with a built-in microphone and speaker, supported by VC software such as MS teams, Cisco Webex, Zoom or Google meet.

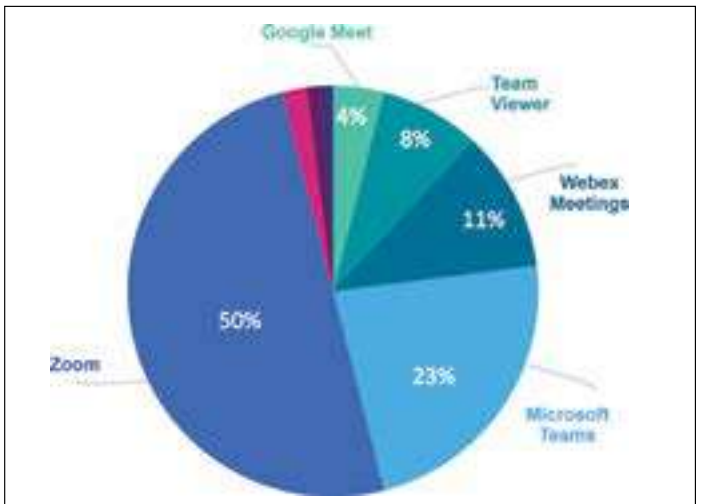
The education segment was the worst hit during the last two years. Education institutes were last to resume back to normal. How did they survive? VC was the only tool the teachers had to be in touch with the students for their educational needs.

Today the market dynamics have changed. It's the reverse now. Today the clients are upfront asking for technology advancement and they are educated for their needs.

The common resistance to technological solutions by the teaching staff has been converted to the institute's demands.

According to the statistics, 79% of workers think video conferencing is at the same level or more productive than in-person meetings. (Owl Labs 2020). 97% of remote workers would like to work remotely at least some of the time for the rest of their careers (Buffer 2021). The web and video conferencing market increased 500% in the first two months of the COVID-19 pandemic. (TrustRadius 2021).

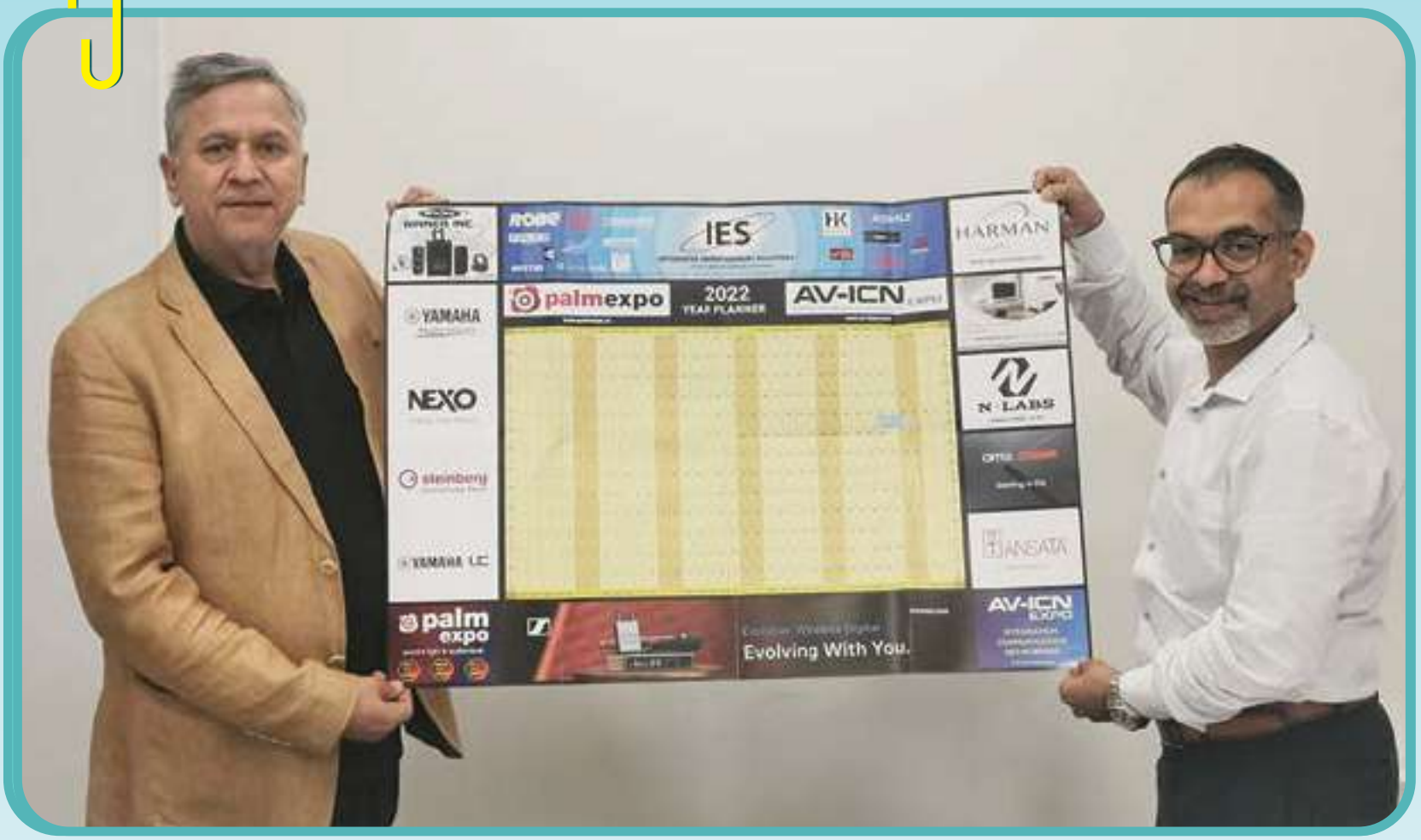
The manufacturers are working on VC to upgrade the features, inclusion of AR, VR and AI becoming common to make it an immersive experience to take it to the next level.



There is an increase in the number of meeting rooms calling for cloud-based VC solutions in every room. Pie chart shows dominance of Zoom in this segment.

Analysis of the Video-conferencing market

PALM EXPO Unveils Annual Project Planner 2022



L to R: Anil Chopra - Founding Director, PALM AV-ICN Expo and Gaurav Sood, General Manager, Hyve India

PALM AV-ICN Expo launched its Annual 2022 calendar at the **Hyve India** office, Mumbai in the first week of January 2022. Officiating this launch was **Gaurav Sood**, General Manager, Hyve India with **Anil Chopra** - Founding Director, PALM AV-ICN Expo, **Ramesh Chetwani** - Project Director, PALM Expo, **Smita Rai** - Deputy Project Director, PALM Expo and the entire PALM expo team.

The **PALM AV-ICN Annual Calendar Project Planner** is designed keeping in mind all the professionals in our industry and is conceptualized as a high purpose, high utility tool for Project Studios, Event Companies, Rental Businesses, AV Consultants, Systems Integrators etc. All our industry professionals need to plan their dateline for projects and events; whether it is a studio recording project deadline or a film release or an AV project which has to be delivered on a particular timeline or a stage event, the planner is an optimum tool to mark the dates. Being integrated and involved with the market, the planner is as much for the manufacturers and distributors who can note down important dates, national and global shows/expos and delivery dates of products and equipment.

The planner has also been created as a very high value brand promotion vehicle for companies who want to promote and push their brand into the market. The planner primarily responds to the need of a cost-effective platform for brand reinforcement and the planner platform is working very well for them as it penetrates the decision makers who buy equipment ranging from microphones, speakers, professional lighting to networking intercom system and conferencing systems, etc. The nine brands who have availed of this opportunity in the Annual Project Planner 2022 include **AMS-Osram, Ansata, HARMAN Professional Solutions, MZ Audio, N-Labs, Sennheiser, YAMAHA Music India and WinJoy.**

PALM Expo Team Launches its Annual 2022 calendar at the Hyve India office

This high utility product will also go live by the next edition and an interactive version will be available on the net.

To access Digital Copy of PALM AV-ICN Annual Calendar Project Planner, Click on:
https://palmexpo.in/PALM-Expo-Annual-Calendar-Project-Planner-2022.aspx

ROBE · AVOLITES · MADRIX LIGHTING CONTROL · ANOLIS · Lucent · Luminex · Pani · AIRSTAR · lumenradio · CAPTURE · IES · INTEGRATED ENTERTAINMENT SOLUTIONS · Your Indian Distribution Partner · HK AUDIO · ASHLY · rpar Acoustics · VMB · DJPOWER · PENTON

Add: Shop#13, Lal Chimney Compound, Dr. A.B Nair Rd, Mumbai:- 11. INDIA. Tele: +9122 2301 8804/ 05. E: iesolns@gmail.com W: www.iesolns.com

Rasesh Parekh: +91-9821125579

HARMAN™

http://pro.harman.com

YAMAHA
Make Waves

NEXO
Thinking. Inside the box.

steinberg
Creativity First

YAMAHA UC UNIFIED COMMUNICATIONS

palmexpo

www.palmexpo.in

2022 YEAR PLANNER

AV-ICN EXPO
AV INTEGRATION COMMUNICATION NETWORKING EXPO

www.av-icnx.com

	MON	TUES	WED	THUR	FRI	SAT	SUN	MON	TUES	WED	THUR	FRI	SAT	SUN	MON	TUES	WED	THUR	FRI	SAT	SUN	MON	TUES	WED	THUR	FRI	SAT	SUN	MON	TUES	WED	THUR	FRI	SAT	SUN	MON	TUES	
JAN 2022						1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		JAN 2022
FEB 2022		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28								FEB 2022
MAR 2022		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					MAR 2022
APR 2022					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30				APR 2022
MAY 2022							1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26 PALM Expo 2022 (Mumbai) www.palmexpo.in AV-ICN 2022 (Mumbai) www.av-icnx.com	27	28	29	30	31		MAY 2022
JUN 2022			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30					JUN 2022
JUL 2022					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			JUL 2022
AUG 2022	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31						AUG 2022
SEP 2022				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30					SEP 2022
OCT 2022						1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		OCT 2022
NOV 2022		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30						NOV 2022
DEC 2022				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				DEC 2022
JAN 2023							1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	JAN 2023
	MON	TUES	WED	THUR	FRI	SAT	SUN	MON	TUES	WED	THUR	FRI	SAT	SUN	MON	TUES	WED	THUR	FRI	SAT	SUN	MON	TUES	WED	THUR	FRI	SAT	SUN	MON	TUES	WED	THUR	FRI	SAT	SUN	MON	TUES	

N-LABS
www.n-labs.co.in

ANSATA®
www.ansata.net

palm expo
sound ▶ light ▶ audiovisual
EVOLVE YOUR BUSINESS
DEVELOP YOUR MARKETS
KEY TO YOUR GROWTH

AV-ICN EXPO
INTEGRATION
COMMUNICATION
NETWORKING
www.av-icnx.com

ST. THOMAS CHURCH REINFORCES SOUND WITH LD SYSTEM

When **St. Thomas Church** wanted to elevate their Sonic System, they reached out to Chennai-based **Audio Sciences**, who installed **LD Systems MAUI 28 G2**.

The church is located on the Chennai coast, St. Thomas English Church (STEC) was once known as 'St. Thomas-by-the-Sea'. The sparkling white Church was built in 1842 and with an Anglican background. The Church became a part of the Church of South India, Diocese of Madras, in 1947 and currently has a membership of around 200 families spread across South Chennai. The church wanted a state-of-the-art audio setup that could deliver a real-time live experience connected with Audio Sciences.

Audio Sciences is a renowned pro audio company specializing in sound, lights, backline equipment and live recording, in addition to permanent installations.

Mike Williams, Proprietor, Audio Sciences who consulted on the installation shares, "The management at St. Thomas Church were looking to re-energize the premises with a competent and charming loudspeaker system that would deliver top-notch sound for speech during their services. We chose to go with **LD Systems MAUI28 G2** active column PA as it is an all-in-one package with distortion-free sound and easy operation. It offers unbeatable sound and wide-ranging distribution thanks to the wave guide of the tweeters that has been developed using the Boundary Element Method (BEM). It reduces reflections from the floor and ceiling and prevents sidelobe levels, thus achieving a homogeneous dispersion. The church committee is delighted with the sound quality, and even the worshippers are in awe of how beautifully the pastor's words are translated through the system."

Audio Sciences deploys LD Systems MAUI28 G2 active column PA at St. Thomas Church

WOODSIDE INN INSTALLS MARTIN AUDIO IN MUMBAI

Located in the Mumbai suburb of Bandra, the **Woodside Inn** connected with integrators **Zoodio Pro** to upgrade their sound system, who deployed **Martin Audio System** that delivers a premium sonic experience to its customers.

The newly installed system comprises **Martin Audio Blackline X10** for the main PA, supported by a **Blackline X115 subwoofer** which Zoodio owner, **Dylan Hilton** says, "The system offers tremendous output from a compact speaker and **CDD6s** have been added as infill for the rest of the dining area and the smoking zone."

Like all the Woodside Inn operations, the Bandra outlet specializes in craft beers and inventive cuisine in the true gastropub tradition. And since it is an all-day operation, they wanted ambient music to broadcast during the day, with a livelier night-time trade-playing retro, old-school rock, and pop to crowds of up to 150. Provision has been made with BlacklineX for a small band to perform, and it will also be a perfect match for the DJ nights they plan to have in the future.

Setting out the reason for choosing BlacklineX as his preferred PA, Dylan states, "Since we have previously worked with Blackline X10s we were confident that this would again be a viable option. For the bottom end, we made use of a Blackline X115, as portability was the driving factor, and the owners didn't want to sacrifice any space. As for the source feed, a digital jukebox plays throughout the day.

"The system just sounds amazing, in the seating area our primary focus was for vocal clarity, even at lower volume levels, while still managing to capture the evening vibe. CDDs seemed to be the best option for this," **Dolphy Sequeira**, General Manager, Woodside Inn, Bandra unit

Since setting up in 2007, Woodside Inn Restaurant, Mumbai has been a market player in the city's gastropub restaurant sector.

Zoodio were first approached by **Neighbourhood Hospitality**-owners of the Woodside Inn bar / diner-back in 2011. "They needed a new sound system for their outlet in Andheri, and we recommended **Martin Audio's AQ8's**," said Dylan.

"The response they received from the crowd back then, and the reliability the system provided, then helped us win more of their projects. We upgraded the system in another project at Woodside Inn Colaba, Mumbai, as well as the new Woodside Inn in Lower Parel. Martin Audio became the 'go to' brand for them," said Dylan.

The Bandra unit now continues the proud tradition. Having now installed the Upper Level with Martin Audio, Zoodio are working on getting the lower level upgraded to the same brand. Suffice it to say, the client is more than satisfied with the result.

Dolphy comments, "The system just sounds amazing, and we are really happy with the vocal clarity and the confidence the providers have given in terms of reliability. The brand has helped us secure a highly positive response in all our places-right from the initial project at Andheri, Mumbai." He also added that guests have been enquiring about the speaker brand. Woodside Inn are keen to standardize on Martin Audio as their exclusive loudspeaker brand.

Woodside Inn deployed with Martin Audio Blackline X10 for the main PA and Blackline X115 Subwoofer

PALM AV-ICN SUMMIT

Conference & Seminar

26 - 28.05.2022

BOMBAY EXHIBITION CENTRE,
GOREGAON (E), MUMBAI, INDIA

Gateway to Business Intelligence

The PALM Conference & Seminar Programme is committed to bringing the best Indian and International speakers on this reputed platform, delivering their skills and expertise to an informed and elite audience of media and entertainment professionals. This crucial feature helps disseminate information on the latest products & solutions and trends, developments and technologies driving the entertainment event, audio-visual & systems integration and music production industry.

ONLY 3 slots available

Book your slot now.

Book your Product Presentation Slot

Make your participation even more significant by booking a Product Presentation Slot at the PALM Conference & Seminar Programme. The PALM offers its exhibitors an opportunity to avail of this reputed and respected features for brand building. Exhibitors can book one hour slots at the PALM Conference & Seminar Programme to conduct company sponsored product presentaions or host workshops / training programs / education seminars etc.

For more information, please contact

Smita Rai
Deputy Project Director
smita.rai@hyve.group
+91 928 936 8200

Organised by: Hyve

palmexpo
sound ▶ light ▶ audiovisual

AV-ICN EXPO
AV INTEGRATION COMMUNICATION NETWORKING EXPO

BETA3 REVAMPS SOUND AT ASHIRWAD CHURCH

Beta3 elevates the acoustics at **Ashirwad Church** located in Mayur. The church required a premium audio systems that would enhance its facilities with pristine sound and provide devotees with an elevated, real-time live experience.

The small church started with scattered bricks and cemented asbestos sheet roofs, now boasts an established structure with different wings and congregation that actively execute multiple activities.

The audio integrator designed and installed a cutting-edge Beta 3 Professional audio solution to meet the church's sound requirements.

Beta 3's audio integrator installed **CTM** and **Xi Series speakers** powered with **VRI18sub** active subwoofer and **two X12i - 12-inch** two-way passive speakers that cover the praying area and CTM1500s deployed as monitors.

Ashirwad Church installed with CTM, and Xi Series speakers powered with VRI18sub active subwoofer

VMT REENERGIZES THE ACOUSTIC AT CRAFTBAR IN MUMBAI AND LOCKDOWN IN GOA

VMT Enterprises caters to the hospitality segment with premium sound solutions. The company recently deployed substantial-quality audio systems that complement the aesthetics of **Craftbar restaurant** in BKC, Mumbai and **Lockdown Club** in Baga, Goa.

British Acoustics at Craftbar

The newest gastro-bar at extended BKC offers a wide menu of a new world and regional fusion food with creative cocktails - all authentically twisted! Envisioned by **Sagar Chakraborty** and fueled by his hunger to always push his boundaries by creating something new, next up for **Cumin Hospitality Services** is Craftbar. The new age gastro-bar is a perfect blend of passionately crafted cocktails and fantastic world fusion foods, along with some Indian street food, all authentically twisted by yours truly. All-in-all, with the rustic design and contemporary ambience, combined with Sagar's natural sense of hospitality, Craftbar promises you an actuality that you have yet to experience.

"Every client tries to have the best sound in their venue. The British Acoustic brand is gaining popularity in A/V venues due to its quality and reliability," concludes **Jeff Mandot**, National Sales Manager, VMT Enterprise.

British Acoustics complements the aesthetics at Craftbar

TMU Auditorium Installed with British Acoustics & OHM Audio System

The system to be designed had to fit with the aesthetic of the interior yet meet powerful audio performance requirements. The system comprises multiple **British Acoustics 'XP512',** powered loudspeakers with inbuilt DSP split evenly in all corners and flown with **British Acoustics 'Delta 18B' powered sub-woofers**. The option to fly the mid-hi speakers was necessary due to the intimate nature of the space and a full-coverage solution was acquired by the **XP512 loudspeakers**. "It was a straightforward install, and the client was happy with its sound and performance," comments **Swapnil Shingade**, Sales Engineer, VMT Enterprise.

"The system achieved very good and even coverage throughout the venue," said, **Wicky Pareira**, Tech Engineer, VMT Enterprise.

JBL at Lockdown Club

Located in a prime tourist location, Baga, Lockdown is a party spot that gets everyone grooving. This rocking new club is one of the spots that are full of locals and long-stay tourists dancing to peppy beats. Lockdown will unleash your wild side with its spacious dance floor, DJ lighting and top-notch music system. The place offers some amazing music, and no matter how sulky you are feeling, you will be forced to leave that

(Continued on page 63)

QSC REINFORCES SOUND AT INDIAN MUSIC EXPERIENCE MUSEUM

The Indian Music Experience Museum (IME), supported by **Brigade Group**, has chosen **QSC** to fully equip its performance theatre at the museum with a **TouchMix-16 Compact Digital Mixer, K.2 Series Active Loudspeakers** as mains and **CP Series Compact Powered Loudspeakers** for stage monitors. The upgrade is in line with IME's philosophy to help performance artists truly enjoy the process of creating music and its vision of not just making music more accessible and inclusive for all, but also making it a memorable experience.

Musicians can now not only perform but also record compositions in this soundproof intimate theatre space, which is now available for both half and full-day rentals. The multi-purpose theatre, which can accommodate up to 100 audience members, is ideally suited for intimate performances, classical music concerts and unplugged sessions.

"With a well-equipped yet intimate performance theatre, we look forward to supporting independent musicians by providing a space for creating music and sharing with a community of music lovers," says **Manasi Prasad**, Director of the Indian Music Experience Museum. "The IME has already become a hub of music in the city, and with the installation of the powerful sound system from QSC, we hope to further grow Bangalore's pre-eminent position as the live music destination of the country."

QSC enhance the audio at IME with K.2 Series Active and CP Series Compact Powered Loudspeakers

"The IME Performance Theatre is a critical application area where the performance artists require a flawless, clear, and consistent audio," explains **Raghunandan Rao**, Assistant Manager – Sales, QSC. "The Intrinsic Correction feature & DMT Technology in the QSC loudspeakers provide even distribution of critical high, mid, and low frequencies in the performance hall which helped provide the desired output coverage. In addition, the TouchMix digital mixer makes effortless achievement in expected output levels/ EQs as per the artist's and mix engineer's requirements."

Speaking about the partnership, **Rajesh Mittal**, Managing Director, QSC says, "QSC encourages the artist community and works towards providing them with solutions and support to empower them to confidently create impactful connections and memorable experiences. The new IME installation is a great example of that same vision."

Among the first to use the space was the metal band **Inner Sanctum** who recorded a performance for the TouchMix Sessions online video series. Reflecting on their experience, **Chintan**, Lead Guitarist, Inner Sanctum says, "It was an absolute pleasure working with QSC and the Indian Music Experience on the TouchMix Sessions. QSC is a company we've respected ever since our inception because their products elevate our sound and bring out the much-needed clarity in metal music. This coupled with the amazing IME museum made for the ideal venue. Can't wait to do this again."

VMT REENERGIZES THE ACOUSTIC AT CRAFTBAR IN MUMBAI... *(Continued from page 62)*

boring aura behind and shake a leg or two for sure.

The venue required an audio system that could support banging nightclub sound while making sure that spill to the surrounding parts of the area was minimized. 'Lockdown' called upon AV specialist 'VMT' to assist with a full-proof system installation. "We wanted something that we didn't need to think about upgrading for a long time and could control on our own quite easily," says **AjitKumar Singh**, Director, Lockdown.

The system consists of multiple **JBL 'VRX 932LA1'** loudspeakers accompanied by a couple of **JBL 'STX 828s' sub-woofers**. The sub-woofers sport dual 18in woofers for powerful low-frequency output up to 138 dB. amplification requirements throughout the venue are met by **Crown XTI 6002 amplifiers**. The **OSL B1XI vocal microphones** do a wonderful job for the musical events. "Our aim was to bring directionality and focus to the low frequencies; to deliver that energy to where it is wanted," said **Wicky .**

"At 'VMT', we strive to provide our customers with products and services that meet and even exceed their expectations," concludes **Jeff.**

"The system sounded really good and can go pretty loud, so they're a diverse enough range to be able to go in all the different areas. Team VMT were very quick to respond from day 1 and they completed, designed - supply - install - handover in a week's time. We appreciate their service," said **Ajit.**

palmexpo 2022
sound ▶ light ▶ audiovisual
26 - 28.05.2022
BOMBAY EXHIBITION CENTRE,
GOREGAON (E), MUMBAI, INDIA
AV-ICN EXPO 2022
AV INTEGRATION COMMUNICATION NETWORKING EXPO

GUNTERMANN & DRUNCK (G&D)

VISIONXS-IP-DP-UHR

The VisionXS-IP-DP-UHR is a matrix-compatible extender and much smaller than previous IP extender variants. The space available can be optimally used due to the considerably lower space requirement and the appropriate mounting solutions. In contrast to previous versions (DP1.2-Vision-IP, transmission with up to 1Gbit/s), the VisionXS-IP-DP-UHR uses standard networks with up to 10Gbit/s . This has a big advantage that it needs way less compression, thus providing a greatly improved user experience. The bandwidth management, the new variants are also compatible with the predecessor variants with 1GBit technology. Due to predefined IP addresses, console and computer modules can be used in a 1:1 connection via existing network infrastructures. Within the KVM-over-IP product family, the different extender variants are compatible with each other. The KVM-over-IP extenders can be operated in matrix mode using an additional control unit, the ControlCenter-IP. This allows the distribution and sharing of signals within a LAN infrastructure.

VisionXS-IP-DP-UHR extenders use G&D's KVM-over-IP technology to transmit signals. Signals are transmitted in compressed form over IP-based networks on layer 3 (1Gbit/s up to 10Gbit/s). Image data is processed in lossless video quality, pixel-perfect and with very good hand-eye coordination. The possible image resolution corresponds to a pixel rate of 25MPixel/s. By means of manual bandwidth management, transmission can be flexibly adapted to a wide range of bandwidth

The console modules of the VisionXS-IP series offer with the IP-MUX functionality the possibility to access different computer modules (one after the other). To use this function, you can connect a maximum of 20 computers to separate computer modules. The computer modules are configurated as targets in the console module and can be connected via the local on-screen display.

No additional hardware is required to use transmission redundancy. Instead, the devices are already prepared for this. The function can be activated, even later, via a software feature key. Additional redundancy modules (SFP transceiver fiber) are available for the fiber variants. Video, keyboard, mouse, and control data is encrypted with AES-128. The devices include a network interface for transmitting data, WebIF, configuration, monitoring, SNMP and updates. They are also equipped with a management network interface that provides all of the above functions in addition to data transmission. The system can be configured by an on-screen display as well. In conjunction with the appropriate mounting solutions, the existing space (especially in the rack) can be optimally used with VisionXS. In addition, with the new mounting solutions, mounting is much easier and faster. The new DeviceCarrier requires almost no screws since it uses slide-in elements. The screws are used for locking.

ADJ

VIZI CMY300

Vizi CMY300 is designed with a 300W LED engine and offers massive output suitable for large venues and on big stages. It is also a flexible fixture capable of operating interchangeably as a beam, spot, or wash. The CMY colour mixing gives the freedom to select from a more expansive palette of colours like independent cyan, magenta, and yellow colour paddles allowing variable intensities to mix and create almost any colour imaginably. In addition, the fixture still incorporates a standard colour wheel which allows easy selection of popular colours inclusive of UV. The 3200K CTO filter allows the beam colour temperature alteration from the cool white of its LED light source to a warm white that emulates older lamp-based fixtures. Two separate GOBO wheels allow the shaping of the fixture's beam to create surface pattern projections and mid-air effects. GOBO Wheel one features eight fixed patterns plus open, including a beam reducer in Beam Mode. GOBO Wheel two, meanwhile, offers six replaceable rotating pattern slots (Size: 26.8mm / Viewable: 20mm) and is supplied with three glass and four metal GOBOs. The Motorized focus enables sharp GOBO projection over varying distances, and a massive zoom range of 8 to 46-degrees allows for everything from super-tight beam projections to wide colour washes. The fixture encompasses two separate rotating prisms. The three-facet circular and six-facet linear prisms can be independently layered together to create unique and complex projection effects. With variable speed as well as fine pan and tilt control, the head is capable of both smooth slow sweeps and fast precise movements. It has a pan range of 540-degrees and a tilt range of 270-degrees, making it capable of covering a wide area wherever it is positioned on a stage or within a venue. A professional-calibre fixture supports an input voltage of 100-240V at 50/60Hz, making it suitable for international use and worldwide touring duties. The locking Seatronic powerCON input and output sockets allow the power for up to four fixtures (at 120V) and eight fixtures (at 230V) to be daisy-chained together from a single mains socket. The fixture boasts a modular design that allows straightforward servicing and on-the-road repairs. Easy access to the inside of the head also makes simple and quick GOBO replacements, while a built-in USB socket means that future firmware updates will be easy to apply. Vizi CMY300 facilitates a backlit full-colour display screen and makes mode selection and DMX addressing simple.

PROLIGHTS
SUNBAR 2000FC

The 126K lumens RGBW LED graphic strobe batten with interchangeable lenses is an exceptionally powerful LED graphic strobe batten featuring also as static blinder and flood. SunBar 2000FC offers flexible control of beam coverage through an interchangeable lens system, passing from 120° wide to 40° beam increasing the light intensity up to x4. Available in FC/RGBW versions and designed to deliver simply staggering light levels, this versatile fixture can provide an unbelievable punch over a huge area features black TFT touch display. SunBar 2000FC features 120° beam angle with Art-Net and DMX control. Graphic effects from 16 individually controllable groups of RGBW LEDs offer Source life up to 30.000 hours. The color mixing system is RGBW / FC with white presets ranging 2.800 K -10.000K and colour wheel featuring virtual colour wheel with macros. The lighting lumen includes control protocol of DMX512, RDM, Art-Net, and Kling-Net. The DMX channels ranges from four to 87channel and pixel control: 1 / 2 / 4 / 8 / 16 individually select and control sections. SunBar 2000FC has a certified IP rating of 20 and Signal connection featuring Amphenol XLR 5p IN/OUT connectors. The LED graphic strobe features Seetronic powerCON waterproof IN/OUT connectors power connection. The Colour mixing is RGBW / FC with White presets ranging in between 2.800 K -10.000K and a virtual colour wheel with macros. SunBar 2000FC's rotating gobos create dynamic pattern with speed and static patterns. The pixel pattern is derived from pre-programmed dynamic and static pattern. The FX generator is adjustable in foreground / background colour, index, speed, direction. The static colour selection allows to select the static mode or one can choose the manual mode to manually adjust the color. The Auto mode has a built-in programs with execution speed adjustment and a special feature with multi-layer pixel FX control. SunBar 2000FC has hardware on-board including sockets for quick-Lock Omega bracket with sturdy die-cast aluminium body in black colour. The device has DMX channels from four to 87channel range and RDM for remote monitoring and settings, the Firmware gets upgraded visa DMX interface. SunBar 2000FC operates on temperature of -10° ~ +45° with a shutter/ strobe ranging from 1-30 Hz. The lighting lumen main power supply ranges 100-240V - 50/60Hz. The SunBar 2000FC weights 9,5kg / 20.94lbs and is easy to configure with quick-lock system for floor positioning via hanging brackets. Amphenol XLR 5p IN/OUT connectors are used for signal and Art-Net RJ45 IN/OUT for Data.

HK AUDIO
LINEAR 9 210 LTA

The LINEAR 9 family has a high-performance integrated DSP with additional DSP Out. The DSP not only allows users to access the right presets directly on the speakers, but also to set up larger systems on a Mac or PC using an Ethernet connection and even make adjustments mid-event. The DSP Out also makes it possible to integrate a non-networked speaker and process its signal with the DSP CONTROL software. All LINEAR 9 speakers have professional connections for safe and smooth operation in the demanding day-to-day rental business. For example, both the mid/high units and the subwoofers have lockable PowerCon and EtherCon connections. All the speaker chassis and drivers used have been specially developed for HK Audio and come from premier suppliers. The multifunctional speakers features a cabinet shaped with an integrated 30° slant, are also suitable for use as transverse stage monitors. Both models offer a preset optimised for use as a monitor, which compensates for the overemphasis of the low frequencies caused by ground coupling. The practical functionality is rounded off by the standard rigging points. The combination of a multifunctional cabinet and practical features allows the XA models to be used not only as stage monitors, but also as the ideal front, side or near-fill addition to a larger setup consisting of the LINEAR 9 210 LTA. Professional point source family built with 2 x 10″ high-performance mid/high unit, two multifunctional speakers with 10″ and 12″ configuration and two powerful 18″ subwoofers. The Scalable system features through horizontal clustering of the LINEAR 9 210 LTA and the Cardioid-compatible subwoofers. HK Audio's custom-designed, rotatable multicell transformer for maximum sound pressure with unprecedented sonic depth. This Modern and updatable DSP at the heart of every LINEAR 9 speaker, has numerous functions such as limiter, 10-band EQ, delay and grouping. Non-networked speakers can be integrated into the LINEAR 9 network through DSP Out and controlled via the DSP CONTROL software, the setup is straightforward thanks to the lockable PowerCon and PowerCon Link connectors along with the wide-range power supply. Professional, balanced XLR inputs and outputs and lockable EtherCon connectors with HK Audio DuoTilt for all mid/high units enables optimal adjustment of the dispersion pattern. Durable quality with sturdy birch multiplex cabinet and resistant PU coating makes these speaker road ready. All LINEAR 9 series speakers can be conveniently remote controlled from the FoH position using the free HK Audio DSP CONTROL software. Available free of charge for Mac and PC, the software includes the following features for speaker customization. In addition to the existing features, the latest version of HK Audio DSP CONTROL offers the possibility to create groups, providing additional functions such as group EQ, group mute and group volume. What's more, Virtual Units can be used to plan projects in advance without an attached system and to assign them to the actual speakers later. The LINEAR 9 family of speakers can be connected easily and effectively to a computer on which DSP CONTROL has been installed using daisy-chain cabling. This connection uses professional EtherCon connectors, which allow a safe connection throughout operation.

M-AUDIO
M-TRACK DUO

The M-Track Duo is a portable recording interface in its class. It delivers 48 kHz audio resolution in a compact and easy to use format that is ideal for creating music on any Mac, PC or iOS device. This versatile interface works great for recording any type of sound source and features two Combo Crystal Preamps with phantom power, making it compatible with any microphone. A dedicated switch to choose either a line level or instrument level input, perfect for connecting digital pianos, drum machines or any other stereo ¼" inch line level device, as well as signal for DI guitar or bass. M-track Duo is completely powered by USB, which makes it portable and perfect for anyone on-the-go. M-Track Duo offers zero-latency monitoring of the mic, line or instrument input signal through both the main stereo 1/4/" outputs and stereo1/4" headphone output. The USB/Direct switch adjusts the balance between the direct inputs and the playback from your computer software. This makes it easy to record new parts or add parts to an existing composition.

The M-Track Duo comes with a complete software package that has everything to get you started right out of the box. Included is a great digital audio workstation (DAW)-MPC Beats. This DAW makes it easy and fun to create professional sounding podcasts, music, or pro sounding beat productions on any Mac or PC. The M-Track Duo includes accessories that help out any podcaster, guitarist, or producer. First on the list are 80 effect plugins provided by AIR. This exclusive and diverse collection delivers everything you need for creative production, mixing and mastering, including reverbs, equalizers, delays, filters and so much moreThe AIR TubeSynth plugin emulates the sound of vintage analog polyphonic synthesizers. Dive into a collection of warm pads, brass synths, and so much more in this massive collection of synthesizer presets. AIR Electric plugin is your total electric piano collection on MPC. Choose from a wide collection of keyboards like Rhodes, Wurlitzers, FM keyboards, and more. Dedicated control sections provide deep virtual control over keyboard pickups, envelope, bell and noise settings, and much more. The AIR Bassline plugin emulates the sound of classic monophonic synthesizers. The M-Track Duo promotes users to create their own unique synth patches with the integrated AIR effects sections.

EAW
MW10

The coaxial design pairs a 10-inch woofer with a 2.5-inch voice-coil compression driver to provide full yet controlled 90-degree conical dispersion. All frequencies emanate from the exact same point, eliminating crossover region problems and time/phase irregularities, as well as optimizing coherency. The coaxial approach also contributes to a very compact, low-profile footprint. The port on the front of the cabinet enhances LF response in coupling with the floor, the opening also houses a convenient carrying handle and dual NL4 connectors. The MW10 enjoys the advantage of working equally well as a stage monitor or as a console bridge monitor. It was designed with a sturdy balance so that when set upright (on its backside) it rests easily on either side of a console bridge. For applications that require boosted performance the MW10 can be optimized using the EAW UX48 digital signal processor or an EAW UXA amplifier. A conveniently located pair of NL4 connectors further simplifies console setup. An optional pole mount is also available, The black monitors are protected with EAW's RoadCoatTM which provides a black finish and tremendous scratch resistance. The white monitors are coated in an extremely durable latex finish. The rugged steel grill keeps its distinctive shape even if stood upon. Points for Omni-mount plates are located the bottom of the MW10 to aid in hanging the monitors. For applications that require enhanced performance the MW10 can be optimized using the EAW UX8800 digital signal processor. For applications that require enhanced performance the MW10 can be optimized using the EAW UX48 digital signal processor or an EAW UXA amplifier. The Highly coherent coaxial design 10-inch woofer-vented comes with six year warranty, enhanced fidelity, and power handling features. The upgraded transducers and crossover design encompasses convenient input connector location and provides sturdy balance for console bridge monitor usage. The frequency response ranges from 65hz – 20khz with an MAX SPL of 134 dB, the nominal Beamwidth horizontally and vertically are both at 90. The MW10 power handles runs at 500W at eight ohms weights at 40.5 lbs. The Baltic birch cabinets are available in a black or white finish.

SEADA
SWMICRO

The SWMicro series video wall controllers are an all-in-one solution available from SEADA technology. Based on cutting edge crossbar express technology, the SWMicrovideo wall controller provides performance and flexibility for video wall applications. The SWMicro series video wall controllers are available from SEADA technology featuring robust FPGA video data process technology provide high bandwidth for real-time processing of all input signals and better system performance. The layout of the windows can be configured separately by the universal SWMicro management software, which offers flexibility within an intuitive interface. SWMicro controllers are also able to offer extremely fast start-up performance and a working environment free of viruses and software conflicts, ensuring 24/7 hassle free operational ability. The HDMI input format features up to eight input channel and 16 output channels with two or four-window overlay mode and No PC vulnerabilities. SWMicro controllers is a multi-video walls support in one system with HDCP compliant that supports custom pre-set layouts. Arbitrary positioning and overlapping of windows on the video wall help increase the layouts looping ability. Picture-in-Picture display of two or four live, moving video input signals over ant output screen is optimized and eco-friendly as the device is features to function in low power consumption mode. SWMicro controller's Input Voltage is up to AC 100V to 240V, 50/60Hz and Operation System Windows is compatible with windows seven, eight and ten. SWMicro controllers has a controller chassis of 19" ANST/EIA RS-310C standard industrial chassis with an input channel of up to eight and output up to 16. The device boasts an HDMI format for both input and output while supporting HDCP and a single power supply. SWMicro controllers operates at a temperature range of 0~40 degrees centigrade and Humidity Range of 10%-90%. The controllers are to be stored at temperature range of 0~60 degrees and centigrade storage humidity range of 10%~90%. and comes with a two year warranty.

TASCAM
MIXCAST 4

Mixcast 4 makes professional content creation easy. For Podcast creation, live streaming, event production, or voice over, Mixcast 4 can mix and record mic inputs, internal sounds and music via the trigger pads, and external audio input from your phone or PC. Together with the TASCAM Podcast Editor software, a complete solution - including both waveform editing and sound pad control is provided from pre-production to completion. The Mixcast 4 is a one-stop workstation that allows for the recording and mixing of sound sources without complicated settings. It provides all audio-related operation and workflow needed for live-streaming, events, podcasts, and other applications. The bundled TASCAM Podcast Editor software will expand the ability to assign content and sound effects to the internal touchpads and will allow for smooth and easy remote track arming, effects assignment, audio editing and more without the need for expertise and complexity. From audio recording to mixing, the Mixcast4 offers a one-stop solution with multiple convenient functions such as 14-track multi-track recording direct to the unit's SD card, Bluetooth, AUX IN (3.5mm) connection for external sound sources, and PC connectivity to import sounds into the Mixcast 4. The intuitive TASCAM Podcast Editor offers a complete audio production environment- from pre-production to project completion. The included TASCAM Podcast Editor software offers straightforward and practical editing of audio content, track arming, and configuration and assignment on the unit's sound pads. The TASCAM Podcast Editor extends the Mixcast 4's workflow through an intuitive user interface that guides users through their production and eliminating the need for experience with DAW software. This unit supports SCMS-T as a form of content protection when transmitting audio, so it can play protected audio. A card is necessary to record and play files with this unit. This unit can use SD cards that are Class 10 or higher and compatible with SD, SDHC or SDXC standards. This unit supports security functions during Bluetooth transmission in accordance with the Bluetooth standard specifications.

The Bright Spark

CAUTIOUS SMART

Viraf Pocha

It's not getting any easier. Is It?

Just as it was safe to start dropping covid masks, time has come to stock up on wartime gas masks.

Covid arrived suddenly and overtook us very quickly and just as quickly it vanished.

We were all wallowing in lethargy as wave after wave hit us. How many of us were really prepared to open up? That too just as the traditional season was ending. More than a few are wondering if there will be another wave before the season really starts post-monsoon.

Authorities say summer is going to be Harsh. All those planes, cars and pollution-spewing machines have been cranked up. While the machines were resting (and their owners were sweating) the planet cooled.

Sadly the most intelligent species on the planet did not learn. We just started up again as before. So look forward to a time when machines & all living things on the planet will be sweating away together.

Before we have some time to think about the imbalance in the ecosystem – A certain Russian gent went out on an adventure. The world responded (perhaps wisely) fighting back with money and fortunately not with Bullets ... at least at the time of this writing.

That is what we need to be both - super cautious about. Really smart about.

One thing we in India have learnt. If there is any disruption whatsoever – our government's first response has consistently been to simply stop and send everybody home. They won't tell you for how long and as we have just learnt, even take away our means to go home. I am too uninformed here to understand if that's the right way of doing things, and frankly, it does not matter.

That's the deck we dealt with and that's what we got to play with.

We just got to be cautious and deal with the situation in a smart way.

In Real Terms.

1. Cut back on both inventory and overheads.
2. While it's tempting to cut back on people - Think. How many of your good people are still with you today.
3. Figure out why. Sit and have a meaningful conversation.
   They worried for themselves. Most of us are low on savings and were looking forward to refilling our savings tanks. If there is more disruption, what is the plan?
4. Collaborate. Remember, we all face common problems. Remember, the people who pay us have got into the habit of doing anything in search of a sweet deal. The layers of sub-contractors are getting thicker and thicker. The final money that trickles down to us is shrinking. Not just shrinking – even the terms are getting more elastic. Government policies are pinching. Compliance issues are mounting. Across industries, everybody is forced to spend increasing amounts of time and money is just filling out endless forms. Failure to comply is expensive. If we don't look after each other and where possible create a common pool of resources to deal with these issues, we will cripple ourselves.
5. Learn to do more with less. Our methods of working are extremely wasteful. A key aspect we need to look into is transport and delivery. Let's learn from people like Amazon (yup) how to get as diverse a set of resources into the widest variety of spaces. How they organise the warehouse. How they dispatch. How they handle shortfalls. Of course, they do it on a massive scale – but the principles are the same. Take the trouble to learn.
6. How do we give up this adversarial attitude? Over the last ten years, I have watched with alarm how slowly every link in our production chain is getting more and more demanding and so increasingly adversarial. There was a time when the client, venue, production staff and technical teams gathered around a table and over some chai-biscoot, every detail was sorted out in a few hours. Everybody knew the concept, set design, broad creative content, production schedule, rehearsals, Front of House protocol, show running teams and break down post-event. Slowly these friendly meetings that sealed associations, led to mutual respect for each other's jobs. Everybody supported each other and putting on a great show was top of mind.

Today it's as if we hosting a Russian Ukraine peace deal. Each guy thinks he is the king. Everybody else on the table better follow his direction or else..... Earlier each point was discussed, a solution found and duly noted. Nobody writes or types anything down on paper or a smartphone. Nine out of ten points end with – I'll get back to you. (never do) Nobody at that table has any knowledge or understanding of anybody else's jobs and nobody seems to care.

Is it any wonder that in a time of increasing production complexity – everything frays. In the end, both the client and audiences suffer.

If our clients are not happy with what they are paying for and audiences don't think it's worth their time to brave the traffic and sacrifice 'me time' to go to some 'stupid event' to show face, all of us are doomed.

If our clients are not happy with what they paying for and audiences don't think it's worth their time to brave the traffic and sacrifice 'me time' to go to some 'stupid event' to show face, all of us are doomed.

We have to look at the larger picture. I watched with alarm that during the covid lockdown, more than a few of my colleagues adopted this attitude of 'Each Man for himself.' The rest of the world can go to blazes, I'm looking after Mr. No 1.

Is it a surprise that the teams that had been built around these people just melted away. If they did gather out of majboori, they were half effective at best.

That could be disguised as the scale of shows has been greatly reduced.

Many of the larger agencies have splintered. So many new agencies have sprung up. On the one hand that is great. But resources have been stretched thin. I'm watching with interest as this unfolds. In a few months, it will be clear on how each of us passed our time in lockdown. How many learned new skills, thought about their businesses and reorganised.

I was surprised at how many people called me looking for ideas on how to tackle the road ahead. At first, I was taken aback. They were all good guys and we had a super technical partnership. But in the past, every time I tried to initiate discussions on how to improve the industry, I got some version of 'Bak Bak Ban kar. Glass pakad'

Now suddenly they were calling with philosophical questions. AND!

Actually listening to the answers.

Time will tell how much listening they did. How much thinking. Most importantly – What did they implement?

It's still early days. But I hope we looking at better days.

Then the war happened. And as I said the world fought back with economic warfare.

Those Europeans and their egos. For centuries it's been the same story. They do some incredible work. Then some guy gets jealous and decides to display greatness by unleashing turmoil. The only difference is that the stakes keep getting bigger.

This conflict has the potential to destroy the world. Either physically or economically. Theories abound about US Dollar Vs oil & gas Vs gold Vs China equation. Clearly, globalisation has not worked.

(Continued on page 74)

RECOGNIZING EXCELLENCE IN STAGE SOUND, LIGHTING AND ENTERTAINMENT TECHNOLOGY

Over the years, the **PALM Sound & Light** Awards have been instrumental in recognising and honouring individuals and organisations for their unmatched contribution to the industry in rendering outstanding services in the field of stage sound & lighting.

The much sought-after awards held along with the Networking Reception for Exhibitors and VIPs, is a befitting tribute to the good work and efforts put in throughout the year in the field of Stage, Sound and Light.

This year the awards will be given across 17 creative, technical and innovation categories across three main segments – Technical, comprising of sound & light engineers, Production – comprising of those involved in live event organisation and production and last but not least the Pro Sound and Light companies.

1. OUSTANDING AUDIO FOH ENGINEER
2. OUTSTANDING AUDIO MONITOR ENGINEER
3. OUTSTANDING AUDIO SYSTEMS ENGINEER
4. OUTSTANDING LIGHTING DESIGNER
5. OUTSTANDING SOUND RENTAL COMPANY
6. OUTSTANDING LIGHTING RENTAL COMPANY
7. EXCELLENCE IN STAGE DESIGN & CONCEPT
8. EXCELLENCE IN STAGE PRODUCTION
9. EXCELLENCE IN SOUND DESIGN & INTEGRATION
10. EXCELLENCE IN AV INTEGRATION
11. CORPORATE EXECUTIVE EXCELLENCE IN INDIAN PRO SOUND & LIGHT INDUSTRY
12. GLOBAL AUDIO INDUSTRY LEADER
13. INNOVATIVE PROJECTION MAPPING
14. MAJOR AUDIO BRAND DISTRIBUTION NETWORK
15. VISIONARY AWARD
16. NEXTGEN AWARD
17. LIFETIME CONTRIBUTION TO THE PRO AUDIO INDUSTRY

10th edition

PALM SOUND & LIGHT AWARDS

27 MAY 2022

15th recording arts awards ceremony

palm expo | IRAA

Recording & Studio Equipment at PALM

The IRM (Indian Recording Arts Academy) Awards is the most prestigious accolade for the Sound Recording and Audio Production Industry in India. The annual celebration is dedicated to works of distinction and exceptional achievements in the field of sound recording, mixing, audio production and post-production. It is the first ever music awards in India dedicated to the regularly forgotten technical fields of music recording and audio engineering talent in the country. Now in its 14th year, the awards will continue to applaud those who exhibit the courage, and creativity to bring about a transformation in the world of sound recording.

For Sponsorship Opportunities or more information of Awards at PALM expo, contact:

Smita Rai
Project Head - Features & Marketing
Email: smita.rai@hyve.group
Mobile: +91 98209 43398

10th edition

PALM SOUND & LIGHT AWARDS

The annual PALM Sound & Light Awards has been instrumental in recognising and honouring individuals, new technology and organizations for their unmatched contribution to the live sound and entertainment industry by rendering outstanding services and solutions in the field of stage sound, light and entertainment technology

CHAUVET PROFESSIONAL PRESENTS WELL STX WITH NEW DESIGN OPTIONS

Chauvet Professional extends its lineup of all-weather fixtures with the introduction of **WELL STX**, a pair of IP65-rated battery-powered LED tubes that provide an easy option for adding distinctive linear looks to stages, as well as corporate and broadcast applications, indoors or outside.

Available in two models, the versatile RGBWW fixture produces 360° or 180° of bright, even, pixel-mappable, eye-sizzling looks. Capable of being oriented in multiple directions, mounted on floor stands, or flown from different hanging points, the fixture makes it possible to add captivating geometric patterns to any design, giving it greater depth and structure.

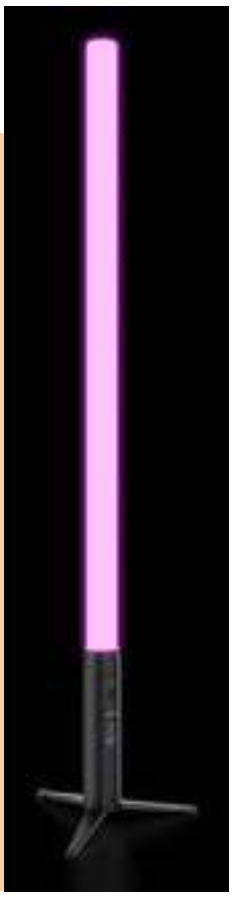
Adding to the visuals are the fixture's 16 zones of control, which can be run wirelessly to create compelling chase sequences. **WELL STX** fixtures are controllable via W-DMX, which can be used with almost any standard lighting controller, including the WELL COM with its built-in W-DMX receiver.

The two fixtures (WELL STX 360 and WELL STX 180) use the same exact DMX personalities for control. This makes it simple to change out the two models for one another to meet the needs of different applications without having to reprogram them.

Measuring 1.5-meters in length, the WELL STX 360 tubes offer a 360° viewing angle and are sold in sets of four, which include four eyebolts for hanging options and four folding floor stands, as well as one remote and one charging flight case. Its filter can be removed from the 360-degree option to reveal its individual LEDs for eye candy looks.

The smaller (1-meter long) WELL STX 180, offers a 180° viewing angle and is packaged as part of a complete kit that includes six fixtures. Each kit also features 12 magnetic brackets for attaching to metal surfaces, six eyebolts for hanging options, six folding floor stands, one remote, and one ABS plastic charging case. A stealth black diffuse filter that ships with the product can be used to "hide" the fixture when it's not activated.

Ruggedly constructed, the WELL STX tubes make an ideal addition to rental inventories given their all-weather versatility and ability to transform any design with unique configurations and intensely bright, colorful light.



WELL STX, with IP65-rated battery-powered LED tubes

CITY THEATRICAL LAUNCHES BEAM CONTROL 30 NEW LIGHTING ACCESSORIES

City Theatrical launches **Beam Control** and **QolorFLEX LED Tape Accessories** with 30 new lighting accessories for 2022 to broaden its line of lighting accessories to best meet the needs of lighting professionals. These additions are now part of the company's US and European Product Catalogs, reinforcing City Theatrical's status a s having the an extensive catalog of unique lighting accessories for entertainment and architectural lighting.

City Theatrical added Electrical/Electronic products to its catalog for 2022, including a standard "Stubby" Dual Band Omni Antenna, 900Hz/2.4GHz, 1.8dBi/3.8dBi, which is an optional antenna for all Multiverse® wireless DMX/RDM products when space constraints are a concern.

Dual Band Omni Antennas, 900Hz/2.4GHz, 1.8dBi/3.8dBi) come standard on the Multiverse Studio Receiver

City Theatrical is also introducing several QolorFLEX LED Tape Accessories, that include, Six Terminal Block Connectors, in Four-, Three-, and Two-Pin Male and Female configurations, to complement existing Six- and Five-Pin Connectors. Four 18 GA Ribbon Cable varieties, in Four- and Three-Conductor, sold per foot (in the US) and per meter (in Europe), to complement the existing Six-, Five-, and Two-Conductor Cables and Two End Cap styles for Extrusions for LED Tape installations.

Many of City Theatrical's new beam control accessories were designed to fit the Standard, EDLT, and XDLT Lenses for ETC's Source Four LED Series 3 lighting fixtures. City Theatrical's new Beam Control Accessory solutions for 2022 include Four Donuts in various sizes, four 17.5"-sized accessories, including a Standard Top Hat, Standard Half Top Hat, Color Frame, and Donut, Two Adapters for 7½" and 10" Stackers™ Tapered Top Hats, Two Martin Top Hats for MAC Rush MH6 and PAR 2 fixtures, Two Follow Spot Yokes and a Follow Spot Handle for Source Four LED Series 3, Beam Bender for Color Source Spot Jr.

ETC DEBUTS CYBERLIGHT LED MOVING MIRROR FIXTURE

ETC has introduced **Cyberlight LED**, a moving mirror fixture built in Austin, Texas. Cyberlight LED moving head luminaires in a variety of uses including high-speed pan / tilt movement and the ability to hide lighting fixtures in permanent installations. Customers with existing mirror fixtures in the themed entertainment market and elsewhere can retrofit those products with Cyberlight LED for more energy-efficient operation and service. The 470 W Bright White LED engine and the high-quality optical system delivers 12,750 field lumens with 90+ CRI for superior color rendering capabilities. A full complement of features is included on Cyberlight LED for creative design possibilities, including color mixing plus color wheel, dual rotating pattern wheels, zoom, focus, iris, prism, and diffusion.

Automated Lighting Product Manager **Matt Stoner** commented, "The lighting industry has been approaching us for years regarding an LED version of the Cyberlight. We took this opportunity to bring the entire fixture up to date with modern automated luminaire technology. By introducing a smaller gate size, we have provided a fixture with a much broader feature set, wider zoom range, and encoded pan and tilt system. In addition, the fixture includes a transferable LED engine, and a maintenance design that prioritizes longevity and precision."

Themed Environment Specialist **Scott O'Donnell** said, "The super-fast speed of the Cyberlight LED is beyond any other fixture in the market. And since you can neatly stow the fixture away in the décor, Cyberlight is exactly the kind of light needed to create a dazzling themed environment. What an awesome fixture!"

Cyberlight LED integrated with 470 W bright white LED engine for efective color rendering

MARTIN BY HARMAN UPDATES SOFTWARE FOR P3 SYSTEM CONTROLLERS

HARMAN Professional Solutions has announced that **Martin P3 System Controller Software Version 5.3.0** is now available as a free update for the entire family of Martin P3 System Controllers.

The update introduces a range of features and improvements that benefit newer products such as the MAC Aura PXL, MAC Ultra and VDO Atomic Bold, as well as classic Martin products including VDO Sceptron, Exterior PixLine and VDO Fatron.

The P3-PC System Controller for video input supports the industry-standard NDI protocol, allowing P3-PC to receive video-over-IP from various sources such as media servers, webcams, and media players.

DMX/Art-Net/sACN input is added as input protocol on all P3 System Controllers, alongside DMX and Art-Net. Support for multi-universe Art-Net Sync and sACN Sync has been added as well. DMX & Motion View now includes an easy re-patch functionality and incoming universe status window. Additionally, it is now possible to run fixtures in "pure video mode", not requiring any DMX controls to be patched.

New features include Background Image Opacity Control, New Tools Menu, and Workspace Size Tooltips; the Renumber Tool and Quick Addressing Tool have been updated to improve workflows; and support for Active PDE Junction Box is added. Enable Magnified Fixtures now supports MAC Aura PXL, MAC Ultra and VDO Atomic Bold fixtures. The P3-PC System Controller is now using a new network driver, making it compatible with modern hardware.

All latest Personality and Fixture Firmware files are added; Save options now include Save Backup in addition to Save As; fixture file sorting is now alphabetical; and the Edge Compensation window now indicates when selected fixtures do not have the same end compensation enabled.

Martin P3 System Controller Software Version 5.3.0 supports NDI protocol with network driver

"This software update brings significant new functionality, interface enhancements and workflow improvements to Martin's P3 control platform," said **Wouter Verlinden**, Martin Product Manager – Creative LED, Lighting & Control. "With more versatile control features, along with even more robust implementation of industry-standard protocols, lighting pros are able to work faster and manage large-scale systems with more ease. Numerous P3-PC enhancements make that system more useful and powerful than ever before."

SHOWTEC LIGHTS UP PRATEEK KUHAD'S CONCERT

Ground Control uses **12 Showtec Sunstrip MKII units** in the big touring act for **Prateek Kuhad**. The founder of Ground Control, **Naveen Deshpande**, is a celebratory lighting designer from India who with his creative team are working on progressive and futuristic lighting design and audiovisual experiences for artists, festivals, corporates, and other large scale events across the globe.

He speaks with admiration of the **Showtec Sunstrip MKII blinders** and uses 12 of them in one of India's biggest tour acts.

The Showtec Sunstrip MKII blinders fit well into the 2021 Prateek Kuhad India tour. Prateek is a famous Indian singer-songwriter creating independent music in Hindi and English. Last year he performed in Bangalore and Pune, where the lighting setup on the stage featured Showtec fixtures.

The production company WMS Online managed the tour, and **Star Dimensions India** Pvt Ltd and **J Davies Pro Sound and Lighting** supplied the lighting inventory.

Showtec Sunstrip MKII creates light flickering patterns at the live performance

Naveen describes the Showtec Sunstrip MKII as one of his favourite fixtures. He has had many great opportunities to use them in different genres of events that he has done. It is such a multi-purpose fixture because of its versatile application possibilities, allowing Naveen to create creative light flickering patterns and blind the audience with blinder moments via DMX. The stage setup comes alive with the support from its pixel control, dimmer function and ten bright **50 W warm white Osram bulbs**.

palm

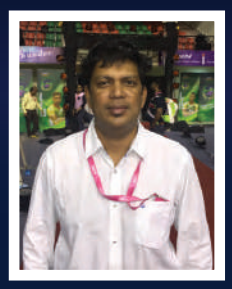
LIGHTING
DESIGN SHOWCASE

INVITING LIGHTING DESIGNERS TO SHOWCASE THEIR SKILLS AT THE

PALM LIGHTING DESIGN SHOWCASE

We invite all lighting designers to come showcase their skills on this unique platform

The PALM Lighting Showcase is a first of its kind in India providing aspiring and professional lighting designers a platform for creative excellence in th field of live event and entertainment lighting design. PALM desires to put the spotlight on emerging lighting design talent for the event industry and this showcase fulfils in providing an opportunity to lighting designers from across India to showcase thier talent.



Curated by

Ulhas Sahasrabuddhe
SSL Media Technology & Solutions Private Limited

palmexpo
sound ▶ light ▶ audiovisual

26 - 28.05.2022
BEC MUMBAI, INDIA

FOR APPLICATION AND MORE INFORMATION, CONTACT:

Smita Rai - Deputy Project Director
smita.rai@hyve.group
+91 928 936 8200

*There are no charges for sending in applications

PROLIGHTS EXTENDS MOSAICO RANGE

PROLIGHTS has extended its range of image projectors by adding the **Mosaic L** to the family. The newly added fixture is a bright outdoor LED gobo projector, designed for long-range images, textures and logo projections. The Mosaico range has an IP66 rating for long-lasting outdoor installations. The Mosaico L has a 300W high-power white LED source and an incredibly bright 11,700-lumen output.

The exceptional 7 to 49-degree zoom range makes the Mosaico L versatile for near-field or long-throw installations. The new fixture has an enhanced optical system that boosts the light output, making it more efficient while making the gobo images crisp and focused on all positions, including the centre and the edges of the projected picture. It also prevents distortion or bending of the image at large zoom angles.

The Mosaico L comes with an extensive set of features, including a rotating animation wheel, seven interchangeable gobos, seven colour filters and motorized framing shutters that focus precisely on any projected area. The Mosaico family includes four fixtures: The **Mosaico Jr, Mosaico, Mosaico L** and **Mosaico XL**. Although their core features may differ slightly, they all have seven layers of effects, enabling thousands of different looks by combining the several effect parameters.

The family also shares the same connectivity options, including DMX and RDM operation, Wireless DMX, and an innovative stand-alone operation with DMX recording and editable playback options.

The Mosaico L featuring 300W high-power white LED source with 11,700-lumen output

ADJ EXPANDS ITS PORTFOLIO WITH THE NEW ENCORE FR PRO COLOUR

ADJ has introduced the **New Encore Pro Colour** Positioned behind a seven inch Fresnel lens, the unit's powerful and efficient 400-Watt LED light source delivers an impressive maximum total lumen output of 9237 (full on, zoomed fully out). It combines red, green, blue, amber, cyan and lime LED chips to allow the creation of a huge gamut of colors as well as white light with a variable color temperature of between 2400K and 8500K. The inclusion of the lime LED chip helps certain colors to appear more vivid and boosts the CRI to more than 94. The unit's light source also offers an average life expectancy of 50,000 hours, removing the worry of a lamp blowing mid-performance and the inconvenience of having to replace it.

Encore Fr Pro Colour features an independent color mixing control over the LED source's six primary colors

To aid with programming in a variety of different situations, the fixture offers a virtual CMY color mixing mode which allows it to be controlled using CMY color pallete tools alongside native CMY fixtures. It also features a Tunable White color temperature control, which allows a single DMX channel to be used to fade through the fixture's white light color temperature range. In addition, it also features 62 preset white color temperatures, 60 virtual color wheel presets and 64 RGBA color macros, in addition to full independent color mixing control over the LED source's six primary colors.

It features a robust hanging bracket secured by two convenient bar handles as well as a large rear positioning handle, allowing for the fixture to be conveniently focused and then tightly locked in place ready for a performance.

The fixture is supplied with a gel frame that can be used to neatly attach a Light Shaping or Diffusion Filter, should a wider beam angle or uneven coverage pattern be required. A set of 4-leaf rotating barn doors is also available as an optional accessory, which can be used to alter the shape of the light output. The fixture offers the choice between five different DMX channel modes (requiring between 14 and 19 channels) depending on the type of control required. It also features both 3-pin and 5-pin DMX input and output sockets, allowing for easy integration into any existing lighting system. Power is supplied to the unit via a locking input socket and there is also a power output socket allowing for multiple fixtures to be connected to the same outlet.

An easy-to-use menu interface for DMX addressing and mode selection is facilitated through a 32-character backlit LCD display on the side of the unit. It features manual dimming and zoom control knobs that are located on the side of the fixture with a USB service port that allow quick and convenient application of future firmware updates.

With dimensions of 16.32" (414.5mm) x 14.18" (360.1mm) x 19.29" (490mm) [L x W x H], the fixture's compact form belies its potent output. Meanwhile, its easily manageable weight of 20.9 lbs. (9.45 kgs) minimizes rigging load in permanent installations and makes it easy to manage when used for touring productions or one-off events. It is also CE and cETus approved, providing both peace of mind the it adheres to the strictest safety standards and assurance that it will be up to code when used as part of a permanent lighting installation.

The Bright Spark

(Continued from page 68)

Only thing is that our enemies are not across a single border, but located on the opposite side of the world.

Instead of creating a culture of common humanity and a better world for every living thing on the planet, we elect leaders who are all threatening to destroy some part of the world for personal gain. Okay – we in the entertainment electronics world can't do a damn thing but watch.

What we can do and figure out (if the planet survives) how to negotiate these times.

Currencies, production facilities and technologies are going to all fluctuate. I have zero ability to predict anything even a few months ahead. All I know is that cash will be king (but which currency.)

All currencies and commodities have the potential to inflate or collapse.

Russia does not produce significant equipment. But Eastern Europe does. China is slowing. And China needs to keep growing at a reasonably rapid pace if it is to keep up with its massive ambitions. All of this is going to create both opportunities to acquire equipment and technologies at a significant discount. Any misplaced or mistimed move has the potential to set us back big time. None of us can afford this Now.

Be Smart My Friend. But be cautious in equal measure too.

palmexpo 2022
sound ▶ light ▶ audiovisual

AV-ICN EXPO 2022
AV INTEGRATION COMMUNICATION NETWORKING EXPO

EXHIBIT AND GET A CHANCE TO CONNECT WITH DEALERS AND VERTICAL MARKET BUYERS ALL AROUND THE GLOBE

26-28 MAY 2022

BOMBAY EXHIBITION CENTRE, GOREGAON (E), MUMBAI, INDIA

BOOK YOUR BOOTH AND SECURE A SPOT

For more information: https://palmexpo.in/book_a_booth.aspx

BOOK YOUR BOOTH

For Booth Space, contact:

Ramesh Chetwani
E: ramesh.chetwani@hyve.group
M: +91 931 137 8565

Ankit Chugh
E: ankit.chugh@hyve.group
M: +91 971 144 2341

Zeeshan Ali Patel
E: zeeshan.patel@hyve.group
M: +91 928 912 4736

Shloka Deshmukh
E: shloka.deshmukh@hyve.group
M: +91 931 137 8567

Reason to exhibit:

- PALM AV-ICN Expo is India's ONLY exhibition for the pro audio-visual, lighting and systems integration industry.
- The show attracts the biggest gathering of distributors, dealers, biggest rental companies & most influential.
- Global participation from the world's leading pro audio and lighting brands. This offers a valuable opportunity to garner greater brand awareness from target buyer base.
- Business oriented content & exhibition features attract professionals and buyers providing more opportunities for collaborations, networking & stimulate product & brand awareness.
- Show's multimodal approach helps exhibitors link to a target audience of buyers and influencers, thereby maximizing ROI.

SHOW FEATURES

- AV-ICN SUMMIT
- CAVS – Certified AV Specialist
- palm DEMOQUBE
- palm LIVE ARENA
- palm LIVE RIGGING WORKSHOP
- INTELLIGENT LIGHTING PROJECTION DEMO
- palm 4th edition LIGHTING DESIGN SHOWCASE
- 15th recording arts awards ceremony – palm expo IRAA – Recording & Studio Equipment at PALM
- 10th edition PALM SOUND & LIGHT AWARDS
- PALM Sound & Light Summit

VIDEO CONFERENCING

Conferencing solutions have enhanced the level of connectivity and have diminished the gap between real and virtual. The need for advanced technology-savvy conference solutions has increased since the pandemic, which has resulted in businesses adopting a hybrid work environment. This month's product focus features a lineup of Video Conferencing Solutions. The feature is intended as a guide and does not endorse any of the featured products.

YEALINK - VC500

VC500 delivers a lifelike face-to-face conferencing experience for small and medium meeting rooms. Its wide-angle lens provides an expanded 83-degree horizontal field of view to ensure that everyone in the room is visible during the meeting. Equipped with a 1080P60 and 5X optical PTZ camera, VC500 offers a vivid image as well as a clear concentration. The VC500-Wireless Micpod utilizes Yealink's DECT technology, featuring two wireless microphones to optimize mobility within the meeting room by providing a stable voice transmission. Yealink's DECT technology delivers clutter free video conferencing solutions. VC500 can be installed on top of the display, fits seamlessly on TV with thickness from 1mm to 77mm, making deployment simple. Yealink VC500 is a sleek, compact device including an integrated HD camera and a codec, only one standard network cable could connect TV area and conference table, saving more time and space for better communication. Multiple participants can annotate content sharing at the same time, assisting high-efficient video conference. Multi-party interaction on electronic whiteboard, real-time synchronization of each party's writing track, and a variety of handwriting options all help to bring a better collaborative experience. The device supports local multi-screen interaction and pairing with WPP20, users can easily realize reverse control of computer via touchable TV or CTP20.

JABRA - PANACAST

Jabra PanaCast is compatible with all video and audio conferencing solutions and is designed to work straight out of the box, with plug-and-play technology that lets you collaborate with others for distance learning. Jabra Speak 710 and PanaCast works with all leading video and audio conferencing solutions and is certified for use with Microsoft Teams & Zoom. The PanaCast is an all in one meeting box, including a USB-hub, extra cable, wall mount and table stand. The High performing Omni-directional microphone and HiFi grade speaker with ability to pair two Speak 710 devices for a full stereo experience. Intuitive plug and play connectivity Intuitive and easy to use with no need for user training or IT support. Speak 710 comes with a pre-connected Jabra Link 380 adapter. Exclusive portable design be mobile with a lightweight design, protective travel pouch and 15 hours battery life. In-room coverage for up to six people with flexibility to be used for individuals or small collaboration groups. Panoramic-4K video uses three 13-megapixel cameras and patented real-time video stitching. 180° coverage gives a more natural, inclusive view of the huddle room compatible with Jabra Speak audio. The Plug-and-play technology lets you collaborate with others quickly and easily, bringing hassle-free video and audio to your huddle room. Intuitive camera technology detects individual meeting participants and optimizes the field of view to include everyone in the conversation. Video quality is automatically and continuously optimized, even under varying lighting conditions, to provide a better viewing experience. The whiteboard sharing function brings the whiteboard online and helps share content in real time, even if it's angled sharply away from the camera, and can toggle between up to three separate whiteboards in the Jabra Vision app. This collaborative feature is fully compatible with Microsoft Teams and Zoom. In Panoramic-4K quality Everyone looks sharp and in focus Software Intelligent Zoom Automatically adjusts the field of view, so everyone is included in the conversation Vivid HDR Optimizes video quality under varying lighting conditions whiteboard captures anything written on a whiteboard in real-time, enhancing readability ease of use Plug-and-play connectivity Instant collaboration 180° Video-flip Allows you to flip the video feed if the device is installed upside down.

KONFTEL - C20800 HYBRID

The Konftel C20800 Hybrid is a versatile video collaboration solution, designed for small to large meeting rooms. It features the Konftel Cam20 4K conference camera, the Konftel 800 conference phone with OmniSound and Konftel OCC Hub. A single USB cable is all you need to connect the powerful wide angle camera, scalable audio and the room's screen to the collaboration app on your computer. Hybrid conferencing allow to easily combine meeting apps and regular phone calls. No hassle, everyone is included. The Konftel Cam20 is optimized for situations where the conference camera needs to be positioned close to the table. The 123° field of view means that all the participants can sit in a comfortable position and still fit into the video image. At the same time, the camera creates a realistic image with no distortion. The camera is quick and easy to mount in the meeting room. The flexible clamp to attach it to the screen or screw the base onto a stand in the perfect position. WDR technology automatically adjusts to achieve a great picture in different light conditions, even challenging ones such as low light, direct sunlight and high contrast. 4K video resolution also allows for a superb digital zoom. Even at the maximum 8x zoom, the camera is still perfectly capable of producing a detailed image. So choose the framing and let the camera do the rest. Konftel's refined audio platform OmniSound with beamforming microphones works actively to keep the dialog flowing in meetings. In the scalable Konftel 800 conference phone, the result is particularly powerful and clear sound that allows participants to relax, knowing that they can hear well and be heard. It's plug-and-play via the USB connection and requires no extra drivers as long as you have a modern version of Windows as the operating system on the computer. It can connect the screen directly usually via HDMI.

LOGITECH - RALLY PLUS

Logitech Rally offers an Ultra-HD imaging system with an optical accuracy resolutions up to 4K. Rally comes standard with one speaker and one mic pod for medium and large sized meeting rooms. Rally Plus offers two mic pods and two speakers for greater versatility out of the box. Rally's modular audio components mean that speakers and mic pods can be placed wherever they are needed, achieving full audio coverage in meeting space. Rally supports up to seven mic pods in total, that configurates the space. Rally features RightSense proactive technologies, that auto-frames participants ,RightLight prioritizes faces over environment to render natural-looking. while RightSound enhances vocal clarity by suppressing background noise, auto-leveling voices, RightSense is compatible with most any video conferencing application that works with USB devices, including Google Hangouts, Meet, Microsoft, Skype, for Business and Teams, and Zoom. Designed with cable management, and modular audio. Rally integrates into any room design with the PTZ motor adjusts pan and tilt speed with the amount of zoom. Advanced Modular Audio Rally delivers sound that's natural and Mic Pods ensures that everyone in the meeting can be clearly heard. Front-of-Room Audio Rally speakers are designed for placement at the front of the room.

POLY - G7500

The G7500 helps teams share ideas and express themselves clearly in Ultra HD 4K. The device enables wireless sharing and can annotate and capture the data for later use, ensuring no ideas get left behind. The built-in noise cancellation feature eradicates audio distractions like background noises and side conversations. The G7500 is deployment friendly with an intuitive user interface and flexible set-up that increases adoption and utilization. The device runs cloud service applications natively or the Poly Video app for standards-based calling and connection into any provider or video system. This modular system for video conferencing makes it easy to configure the system to your specs, while simplifying the user experience by combining video conferencing and content sharing in one solution wirelessly from any device. The G7500 video conferencing system puts content at the center easily and wirelessly, it enables dual content sharing and streaming at once. Content annotation and digital whiteboarding feature helps boast efficiency with customization and security for room control using REST APIs. Poly video conferencing solutions can deliver digital signage content from Appspace between meetings. Using Poly Lens cloud management makes deployment easy. G7500 minimizes background noise and leverages design to power meetings on cloud video platforms like like Zoom, Microsoft Teams.

AMATE AUDIO UNVEILS ULTRA-COMPACT COAXIAL POINT SOURCE X14FD

Amate Audio has announced the launch of the ultra-compact, high performance **X14FD**; a point source, dual-purpose front-of-house PA and stage monitor system.

The X14FD is the latest with iteration of an extended pedigree of coaxial based dual-purpose designs; beginning with the X12CE and X15CE models and including the X14T, a previous 14" based design.

The X14FD is a latest generation Xcellence series self-powered active system, and incorporates Amate Audio's uprated Active+ digital power and control platform with high-order FIR filtering and Dante audio networking.

The single revolutionary low distortion, high power handling 14" coaxial driver provides full frequency response with a conventional 15" driver, combined with the mid-frequency resolution and clear vocal articulation of a conventional 12" driver; together with exceptionally transparent HF response and peak handling characteristics. Use of a single driver consequently enables the design of an enclosure with a greatly reduced form factor, relative to the X14FD's power and frequency range.

With its sonic characteristics, high output and low profile, asymmetric cabinet the X14FD can be hung, flown, stacked or pole mounted in FoH, front and side-fill PA applications or, floor-standing on its horizontal axis, deployed as a stage monitor of exceptional performance. Portability and handling is made easy with top and bottom flush carry handles. Integrated rigging points and pole mount socket facilitate easy rigging or stacking of the cabinet with its 'tour proof ' construction of reinforced Baltic plywood and weather resistant Polyurea coating with integrated protective rubber profiles.

X14FD engineered 14" coaxial driver for FIR filtering and Dante audio networking.

With its dual-purpose form factor, the X14FD is both the optimal stage monitor for our flagship X212AFD line array, both in horizontal floor monitor and vertical side-stage or drum monitor applications. Onboard power and control from the Active+ electronics includes 1500 W Class D bi-amplification and industry leading DSP system management, with LCD colour touchscreen operation and monitoring. Active+ provides a suite of tools to setup and tune the loudspeaker system in a fraction of the time required for conventional active systems. Features include high-order FIR filtering, for fully phase coherent PEQ adjustment and absolute phase alignment of common cabinet couplings, independent dual limiting (RMS thermal and peak) on each power channel, high-order crossovers, delays of up to 300ms/100m, and EcoMode power settings (inc. auto input signal detection). Additional parameter adjustments are storable in PIN protected user-settings. Dante audio networking and full Ethernet remote control, via the company's latest DSP Studio 3 software, are via dual Ethernet ports; Wi-Fi remote control is possible with the CWK-D Wireless Communication Kit.

"In continuing development of compact, high performance 2-way loudspeaker systems, designed around advanced coaxial drivers, we have engineered even greater reductions in cabinet volume with the use of this new driver in the X14FD," says International Sales Manager **Jordi Amate**. "Despite achieving a form-factor with the lowest possible profile in its stage monitor application, the new design offers improved ergonomics. The new driver also provides improved long-throw coverage for outdoor use. Added to this are all of the operational advantages of our very latest generation power and DSP control electronics, standard in our new Xcellence series models. It is a truly industry leading combination, and includes an optimized monitor preset with enhanced voice control and zero microphone feedback issues."

With its dual-purpose form factor, in FOH PA applications the X14FD provides output and performance exceeding that of larger conventional 2- and 3-way systems – and can be matched with the company's most advanced and powerful Xcellence series subs – while in monitor role it optimally partners with the flagship X212AFD large format line array; in both horizontal floor monitor and vertical side-stage or drum monitor applications.

N-LABS EXPANDS X SERIES AMPLIFIER

N-Labs, the professional audio manufacturer in India, recently unveiled the **X1 Subwoofer Amplifier**. The two-channel amplifier integrated with class H technology comes with 20 capacitors of 22000 uF with high output current of 30A per channel delivering a powerful 5500w peak at 2.7ohms per channel. The device features OCP protection with an inbuilt switchable limiter function that protects the amplifier from delivering over-voltage output.

X1 amplifier features a balanced XLR input with output speakon and terminal output connectors to connect seamlessly. The eco-friendly amplifier is BIS approved and provides a higher output power supply. Tunnel state cooling design for heatsinks forces cooling inside with an audio cutout feature in each channel which shuts down the audio in case of mis-happenings or short circuits for 30 minutes and resets all operations. The amplifier is equipped with separate fuse boards to protect input and output supplies from damage to ensure maximum performance and reliability. The unique circuit design loaded with four variable speed coil fans with a high-density radiator often used in aviation is controlled by automatic temperature sensors, which regulate the fan speed and noise.

X1 Subwoofer Amplifier with Class H technology deliveres 5500w peak at 2.7ohms per channel

The Led indicators reflect information on signals, protect and clips uniformly to deliver long-duration operations hassle-free. The X1 amplifier encompasses a robust 2U design with a 19" rack mounting option that is easy to configure for live events and installations.

JEWAR AIRPORT FOUNDATION STONE CEREMONY SUPPORTED BY A COMPREHENSIVE JBL SOUND SETUP

On 25th November 2021, Prime Minister **Narendra Modi** and UP Chief Minister **Yogi Adityanath** laid the foundation stone of the upcoming Noida International Airport at Jewar. The foundation stone ceremony was a grand publicized event that witnessed the attendance of thousands of people amid heavy security.

The public gathering was held in an area of 2.5 lakh sqm area with a parking facility created in another 3 lakh sqm area. Four helipads, nine parking spots, 30 gates and one main German hangar, exhibition lounge, along with VIP and media lounges were set up by Wizcraft for this event at Rohi Village in Jewar

An event of this scale obviously needed comprehensive sound reinforcement, which Delhi based **Modern Stage Services** delivered with the support of **HARMAN Professional** India.

Modern Stage Services, who were the systems integrators and consultants on this project, were supported by the team at Harman Professional India to deploy the huge quantity of **JBL VTX & Vertec** systems required for sound reinforcement in addition to designing and calibrating the systems.

Commenting on the setup, **Davinder Wadhwa** of Modern Stage Services says, "The venue could hold upto 2 lakh people. Additionally, we had also received feedback from the client that it would be difficult for the PM to speak due to feedback from the main PA system. To counter this, **6 x VTX V20** speakers were deployed as Stage Side Fill Speakers. **16 x VTXA12** with **8 X VTX G28** subs were deployed for the VVIP area. 24 delay stacks coupled with a combination of **122 JBL VTX A12, VTX V25, VTX V20, VT4889 & VT4888** units were deployed at 150 feet for covering the entire audience area."

"Apart from JBL Professional, there is no other brand that could single-handedly cater to a large inventory of 144-line array speakers," he added.

The most challenging aspect was to ensure crisp hearing with uniform sound to scale a feasible solution that could cater to the massive crowd. "When the discussions began, the estimated audience size was 50 thousand. This figure kept growing until it reached two lakhs. We had to be on our toes to scale up and deliver a system for the gathering," said, Davendra.

Given the importance of this grand event, the crowd that gathered was massive, which required the audio signal transportation over digital protocol for a longer distance. **AES/EBU** inputs in **Crown ITech12000HD** seamlessly connected the delayed stacks using a digital audio signal.

The set-up was completed in five days, which Modern Stage Services executed flawlessly and delivered a successful event that fulfilled its purpose well.

Phase-I of the Noida airport project is expected to be completed by September 30, 2024. With the Jewar airport becoming operational, the national capital region will be hosting two international airports within a 100-kilometre radius. The airport, which is roughly 80 kms from Delhi's Indira Gandhi airport, is in line with the Centre's vision towards boosting connectivity and creating a future-ready aviation sector. By the last phase, the Airport is expected to surpass Delhi's IGI Airport and once completed, this may just be Asia's biggest airport.

JBL VTX & Vertec Systems reinforces sound at the public gathering of the foundation stone ceremony at Jewar

Inventory:

- Stage Side Fill: 6 x VTX V20
- Main PA: 16 x VTX A12 & 8 x VTX G28
- 24 Delay Stacks: Combination of VTX A12, VTX V25, VTX V20, VT4889, VT4888
- 96no's x Crown I-Tech12000HD amplification

VOID ACOUSTICS DEBUTS BIAS Q3 TOURING AMPLIFIER

Void Acoustics has announced the release of the latest addition to the Bias family of amplifiers. The **Bias Q3 DSP Touring Amplifier** is designed and launched of the Bias Q3 and addresses a more traditional type of amplifier in the Bias range. It is ideal for small to medium-sized installations and short-term mobile deployment.

"The new Bias Q3 offers another level of diversity to our amplifier range, and we are thrilled to introduce it to the market" comments **Callum Bowran**, Applications and Support Manager. "It has been designed with versatility in mind and is perfect for a breadth of applications including small to medium-sized tours and festivals, as well as music venues, clubs and bars. It is also incredibly user friendly.

The Bias Q3 integrated with four channels and intuitive touch screen front panel control

With four channels and intuitive touch screen front panel control, the Bias Q3 offers total integration with the Armonia Pro Audio Suite enabling extended control on smartphones and tablets.

PIONEER DJ INTRODUCES THE HDJ-CX PROFESSIONAL ON-EAR DJ HEADPHONES

AlphaTheta Corporation has announced the release of the new professional on-ear DJ headphone from its **Pioneer DJ** brand: the **HDJ-CX.**

HDJ-CX is lightweight and designed for absolute comfort and tuned to deliver tight audio with a wide range for mixing and monitoring music in any environment, the new headphones also feature a high level of sound insulation and are built to last.

You can wear the HDJ-CX headphones for several hours and hardly feel their presence. This level of comfort comes from the brand-new lightweight, ergonomic design. Every tiny detail has been considered, including the wiring in the cable which has been slimmed down to reduce weight, and even the positioning of the curl on the coiled cable which has been moved closer to the plug for greater balance. With a high level of flex in the sturdy, stainless steel headband and adjustable earcups.

HDJ-CX ergonomically designed with bass reflex chambers for low frequency

The range of sound produced by HDJ-CX lightweight pair of headphones includes Mids and highs that are clear and precise while lows are fat and powerful due to the new PEEK-PU-PEEK composite film diaphragm1. Bass reflex chambers in the housings improve the low frequency response even more and the sound insulators bring a higher level of audio insulation.

Weighing just 136 g without the cable, they're also ergonomically designed to minimize any stress to the head, neck, or shoulders. What's more, the stainless steel headband features a ladder-like structure for extra flexibility and stress resistance.

The φ35 mm driver units realize the input power to reach 2,000 mW. The bass reflex chambers in the housings improve low frequency response even further while the sound insulators create a higher level of audio insulation, so you hear the full bass sound along with every nuance in the music. Made to withstand the rigors of constant use on the road, they've passed demanding tests that other professional Pioneer DJ headphones are subjected to, as well as the stringent US Military Standard MIL-STD-810H Shock test.

Set your headphones up the way you like by choosing from the two supplied cables – straight or coiled. To make sure you keep track of the 1/4" plug adapter, it has an optiion to clip the adapter holder neatly onto the cable so it's always at hand. A pair of replacement ear pads are also included, and you can expect them to come in handy.

Promotion Index

Name	Page No.
Adamson (StageMix Technologies), Mumbai	Back Cover
Ahuja Radios, New Delhi	05
CABSAT 2022, Dubai	18
Harman International (India) Pvt. Ltd., Mumbai	IFC
H V & Company (N-Labs), Gujarat	13
Integrated Entertainment Solutions, Mumbai	09
JTS, (Sonotone), Mumbai	23
MZ Audio Distributions (India), Mumbai	03
NAB Show 2022, USA	49
Osram, New Delhi	27
PALM AV-ICN expo, Mumbai	29, 31, 50, 61, 69, 70, 73 & 75
Sennheiser, Gurugram	IBC
Sonotone, Mumbai	29
Vardhman (VMT), Mumbai	01

www.palmtechnology.in *www.av-icnx.com*

palm + AV-ICN
PRO AUDIO | STAGE | STUDIO | AV INTEGRATED SYSTEMS | BROADCAST | DISPLAY | LIGHTING
e-newsletter
EXPO MAGAZINE

EVOLVE YOUR BUSINESS
KEY TO YOUR GROWTH
DEVELOP YOUR MARKETS
palm expo 2022
26 - 28.05.2022
BOMBAY EXHIBITION CENTRE, GOREGAON (E), MUMBAI, INDIA
AV-ICN EXPO2022
VISITOR REGISTRATION IS LIVE NOW
SOUND LIGHT & AUDIOVISUAL EXPO
Organised by Hyve

Reinforce your brand identity
with an advertising campaign in the **PALM technology Newsletters**

Frequency: **Bi-Weekly** (every alternate Wednesday)

Circulation: **60,000+**

Target Audience:

Live Events | Sound & Light Rentals | Sound, Recording & Lighting Engineers | Electroacoustic Consultants | Systems Integrators | AV consultants | Manufacturers, distributors and dealers | Hospitality | House of Worship

View our previous newsletters on
http://palmtechnology.in/Newsletter_Archive.aspx

Book your space now! Contact
smita.rai@hyve.group for more information on available positions and the most cost-effective rates

Evolution Wireless Digital

Evolving With You.

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

www.sennheiser.com/EW-D

2 YEAR WARRANTY

German Engineering

SENNHEISER

For more info, contact: **Piyush Mahajan: +91 9650711660** or email at **info@sennheiser.com**

BUILT.
STRONG.

The S-Series.

Adamson's commitment to technology and design means you can deliver unparalleled sonic performance and power to your audience.

ADAMSON

ADAMSONSYSTEMS.COM

StageMix

StageMix Technologies

102, Savoy Chambers, Above Mini Cooper, Linking Road, Opp. Masjid, Santacruz (West), Mumbai 400054, India

Tel: +91-22-66439999 Website: www.stagemix.com