

AV-ICN_x

AV INTEGRATION COMMUNICATION NETWORKING



AV integration of Deloitte's meeting & training rooms in Mumbai office by AV consultancy Allwave AV

DIGITAL SIGNAL PROCESSORS

Xilica partners with **Sennheiser** in India

VIDEO WALL CONTROLLERS

SEADA appoints **Datapoint Impex** for the Indian Market

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SEADA partners with Datapoint Impex

AV - ICNx TECHNOLOGY

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Incorporating

BROADCAST VIDEO PRODUCER

SEADA JOINS FORCES WITH DATAPOINT FOR THE INDIAN MARKET

UK based SEADA Technology Limited, a world-leading manufacturer of video wall display and Conference technology, recently announced the appointment of Datapoint Impex as its sole distribution partner in India.

SEADA is well known globally for offering the most innovative and cost-effective solutions for their customers, in video wall controller applications. Working closely with their partners, including distributors and systems integrators, SEADA has systems installed worldwide.

SEADA offers a whole range of video wall controllers for different applications. These include; digital signage, command and control, Commercial, security, education, IP & Network Distribution and many more.

SEADA's product range includes Video wall processors, Edge Blending Controllers, Conference Solutions, AV over IP, Extenders and Splitters amongst others. The successful and innovative range by SEADA was recognized and awarded by Queens Award for Enterprise International Trade 2019. The Queen's Award for International Trade is awarded for growth and commercial success in international trade.

Datapoint Impex will be the sole distributor of all these products by SEADA in India. The appointment was confirmed by SEADA.



Vishal Thakur, Business Head of Datapoint

SEADA PRODUCTS AVAILABLE WITH DATAPOINT INCLUDE:

- **G4K Pro Creative Video Wall Controllers:** It is the perfect solution for digital signage displays with its ability to support audio and any degree rotation on each output.
- **SolarWall Video Wall Controllers:** The Solar Wall family of controllers are suitable for the most complex Command & Control applications, including security, military, transport and process control.
- **SolarWall HD Multiviewers:** SW HD Multiviewers is SEADA's latest video control systems in a compact 1RU chassis. They are able to monitor completely independent 9 SDI or 5 SDI & 4 HDMI video sources on a either HDMI or SDI single HD display.
- **Edge Blending Controllers:** The G4K DS is the device combining edge blender, video wall controller and 4K media player together in one unit. It is not only able to blend up to four projectors together into one flat seamless display but also able to warp geometries on non-standard surface to form curved or spherical projection surface.
- **Conference Solutions:** Seada Conference is the new product line Seada have introduced in 2018. Products include technology such as retractable tablets, motorised monitors and portable meeting room systems. Built in microphones & speaker offers the user better communication during the meetings and adjustable monitors and touch screen gives the user a stylish design with flexible components.
- **AV over IP:** SEADA's Genesis Encoders & Decoders offer high profile H.264 compressed streaming video and audio with resolution up to 1920 x 1200@60fps over a standard IP network at user-defined low bit rates for excellent quality and low network bandwidth consumption.
- **Extenders and Splitters:** The extender ranges from SEADA are a transmitter and receiver set used for the transmission of uncompressed HDMI audio video signal over the CAT-5 or CAT-6/7 cable. The HDMI Splitter is an advanced solution for splitting single HDMI signal to 8 HDMI outputs synchronously.
- **Matrix Switcher:** The Seada Matrix Switcher range supports the transmission of video (up to 4K2K@60Hz YUV4:4:4, 8-bit, 18Gbps, HDCP 2.2) and multi-channel digital audio.
- **G44 Video Wall Controllers:** The G44 video wall controller accepts up to 4 HDMI/DVI/VGA/CVBS/YPbPr inputs and displays them on 4 different displays, each with a resolution up to 1080p@60fps.

"We are excited about this partnership and are absolutely positive that our team at Datapoint, with the support of SEADA will deliver state-of-the-art solutions to the Indian market. We are confident of replicating SEADA's global standards and success, here in India," said **Vishal Thakur**, Business Head of Datapoint.

"We know SEADA's goal and focus for the Indian market and it works well with our own ideas and values. As SEADA grows its range of products, we would be honoured to build the market in India for them. SEADA needed a reliable partner to carry out their sales and distribution in India and we are glad they choose us," added Vishal.

SEADA will be a part of Datapoint's distribution division, which is concentrating on building a pan india distribution network and help clients get the right solution for their requirements in a quick and efficient manner.

Datapoint team is fully equipped with manpower and resources to provide support that not only elevate Datapoint's stand in the industry but also of SEADA's.

The partnership between Datapoint and SEADA is based on their similar goals and viewpoints in approaching the Indian AV Market and ensuring that the Indian sub-continent receives global quality standard and brands.

ONE YEAR OF AV-ICNX MAGAZINE

AV-ICNX MAGAZINE CONNECTS INDIAN MARKET - FULFILLS RESOURCE MEDIA VACUUM.

"I am truly glad in establishing AV-ICNX expo promotion magazine, in creating a resource for professional AV and communication technology. We changed the title of the mag when prompted by Avixa, as at the very core our purpose is to act as a catalyst, become a voice and face of Indian AV. I take this opportunity to thank our advertisers and all the companies who have welcomed us, encouraged us and provided



Anil Chopra
Director AV-ICNX Expo

us with good editorial. "Thank you"

Indeed, we aim to be a harmonious part of India's burgeoning AV industry. Ethos is to contribute information to promote business and best practise. We

shall persevere and persist with determination to prove our valid intentions.

As Indian AV industry will prove its own mettle and defining level of excellence. We will celebrate the great work of Indian AV, this magazine, as will AV-ICNX expo, showcase to the world unique design and solutions of our leading AV consultants and integrators-I am confident the industry here will cooperate increasingly with us".

"I do believe the depth of knowledge and expertise in Indian AV is leading the world in adopting new technology. I do believe AV design in India is innovative and exploits new AV technology to its limit."

"Magazine is focused on news provid-



ing information on new product comprehensively as we can, tenders to inform on business opportunity. We would like to interview as many business leaders and top level management. We hope we succeed much more in the next six issues. This magazine is patient. We all need to gather our strengths and brave the future. Rest assured you have our fullest commitment."

"I request spontaneous communication with our edit team headed by Smita Rai to get your news published and more so case studies of latest integration in networking, communication and collaboration, audiovisual integration and new product"

Indian AV's 'resource' is a key, let us open it together.

Cheers!

ATLONA ANNOUNCES SECOND-GEN VELOCITY AV CONTROL PLATFORM

Atlona has significantly updated its Velocity IP-enabled AV control platform, with new features and flexible deployment options for commercial AV environments.

Making its debut at ISE 2020, Velocity will transition into an expanded and enhanced platform offering greater ability to plan and scale AV control system designs, from 1-3 systems to large, enterprise-wide installations. The new release will also integrate new capabilities at no extra cost, including room scheduling, unlimited BYOD usage for AV control, integration with leading soft codec platforms (Zoom Rooms, Cisco WebEx), AV asset management, and remote monitoring and management from the cloud.

"Our new Velocity System model removes the burden of specifying, configuring, deploying and managing separate platforms for AV control, room scheduling, and asset management," said **David Shamir**, Director of Product Management, Atlona. "With the integration of the Atlona Management System (AMS) into Velocity, installers can now configure, control, and manage not just the control systems, but individual Atlona AV devices as well."

Velocity's updated platform includes new VGW-HW hardware server gateways to serve multiple rooms with AV control,



room scheduling, and configuration and management of Atlona AV devices. With a single VGW-HW gateway serving multiple rooms, the Velocity System substantially reduces cost of ownership compared to competitive AV control platforms requiring a separate processor per AV system or room.

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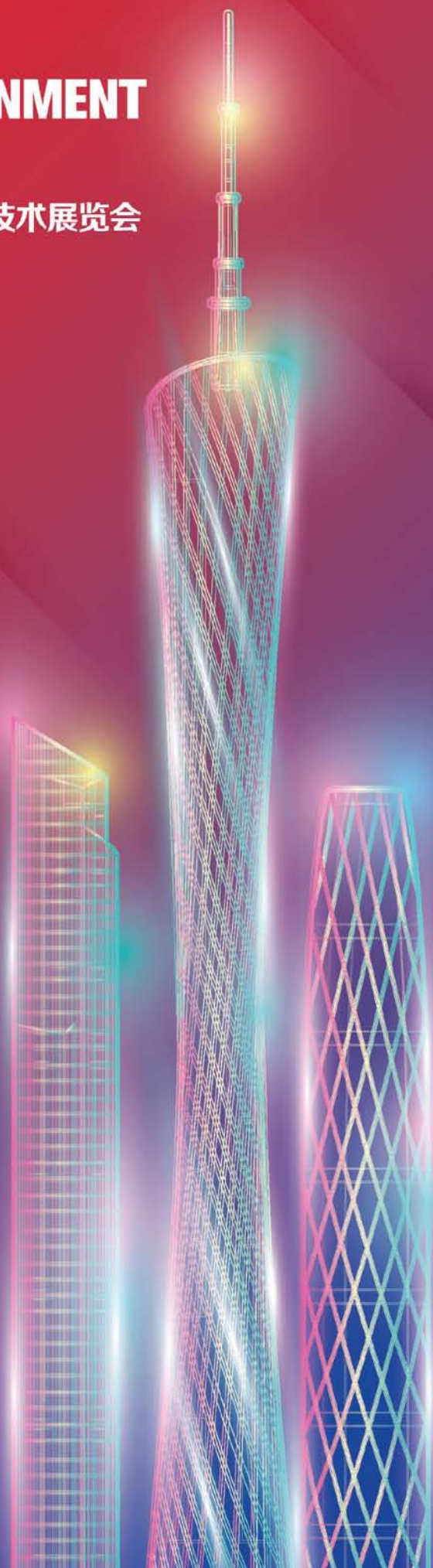
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SUN INFONET ROADSHOWS TAKE PRO-AV INDUSTRY BY STORM

Sun Infonet continues to remain dedicated to educating the Pro Audio professional of the country. Adding to their growing number of seminars, Sun Infonet recently concluded a series of highly successful workshops, symposiums, and masterclasses.

Allen & Heath Mixing Masterclass

Sun Infonet recently hosted a Mixing Masterclass for Allen & Heath led by Dave McDonald, a renowned sound engineer who has worked on world tours with the likes of Adele, Sigor Ros, Florence, and the machine and Frank Ocean. The one-day event took place in Mumbai and Bengaluru and was attended by a mix of 30 to 32 audio/sound engineers, owners of rental companies and audio engineering students.

The workshop was divided into three parts, starting with a pre-show set-up, including how to design the showlife, the challenges that could arise and what made McDonald choose dLive. The second part of the workshop showed how to perform a soundcheck, mixing instruments, configuration, placement of instruments, creating snapshots and grouping of channels. The Masterclass ended with a presentation on tips on how to approach a show and make it successful, including the use of FX engines and changing screens.

Talking about the event, **Amar Dhar**, a sound engineer from Crescendo in Dimapur, said, "I have learnt a lot from Dave McDonald. This Masterclass was different from the others I have attended in the past. Sun Infonet focused only on the content and not on the mixer. Thank You team Sun Infonet for conducting this 'Mixing Masterclass' on Live Sound Mixing".

Sun Infonet Symposium

Sun Infonet at The Capitol, in Bengaluru, conducted a symposium displaying the complete range of audio solutions from Shure, Meyer Sound, Allen & Heath, Quest, and Audio Focus. System integrators and Audio Video consultants attended the symposium from Chennai, Hyderabad, and Bengaluru.

The main objective of the symposium was to make the system integrators aware of all the brands and make them under-



Shure In-Ear Monitor Workshop (IEM 2019-Chennai)

stand that the gear can be used in all installed and live applications.

Shure Wireless Masterclass

A Wireless Masterclass by Shure was conducted by Sun Infonet at The Lalit in Mumbai was led by Mr. Andrea Granata, Product Marketing Manager, Shure MEA. The two days Masterclass in Mumbai saw participants who are working as Sound and Audio engineers with bands, singers, Bollywood artists, music composers, and owners of renowned rental companies.

The Wireless Masterclass included comprehensive training regarding RF technology, digital wireless systems, and RF coordination. It provided an ideal opportunity for participants to gain in-depth knowledge of the principles of RF technology, networking and audio transportation, and Wireless Workbench (WWB).

Both events, Sun Infonet Symposium in Bengaluru and Shure Wireless Masterclass in Mumbai saw attendees getting hands-on experience with all the applications and the usage of the gear. The events concluded with a corporate Cocktail Party.

Shure In-Ear Monitor Workshop

A workshop by Shure on the Advantages of In-Ear Monitors was conducted by Sun Infonet at the KM College of Music and Technology, Chennai, which was formed by A R Rahman in 2008.

Barry Kassab from Shure carried out the workshop, which attracted musicians,

independent artists, brands, and music students from KM College.

The workshop focused on the advantages if In-Ear Monitors over stage wedges, how to select the right pair of earplugs, the correct way to set up In Earplugs for gigs, and ways to protect your eardrums.

"Hearing when chai met toast on the In-Ear Monitors the way the band hears it during performances is an experience to remember", commented **Rameetha Venkatesh**, Bass Guitarist and Student of KM

About the workshop, **Jayakaran Samuel**, Senior Live Sound Manager, South India, Sun Infonet, said "The workshop has given both seasoned musicians and upcoming talent the right perspective of technology and its benefits".

Neeraj Chandra, Director, Sun Infonet Pvt Ltd said, "Sun Infonet Pvt Ltd has always been focussed on educating and connecting with the users and what better way to do so through various road shows that we have been doing for every vertical along with the OEM's. This helps to understand the requirement and focus on what is expected by the user".

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YAMAHA UC SCALES TO THE FUTURE OF COLLABORATION WITH INTEL UNITE SOLUTION

THE PARTNERSHIP BRINGS INTEL UNITE APP-ENABLED MEETING CONTROL TO YAMAHA UC'S USB AUDIO AND VIDEO SOLUTIONS

Yamaha Unified Communications has announced its CS-700 Video Sound Collaboration System and USB speakerphones now integrate with Intel Unite, a simple, customizable wireless collaboration solution that enables users to start meetings quickly and securely — no need for dongles, adaptors, or cables. From the Intel Unite app, users can efficiently control Yamaha audio and video products for even more seamless meetings and greater productivity.

"The collaboration spaces are some of the most valuable environments as people increasingly engage with a growing number of remote participants. However, without the appropriate technology to support users and IT staff, productivity and ROI can sink quickly for these rooms. We developed our USB audio and video products to deliver state-of-the-art audio and video performance out of the box, without the frustration, expense, and time spent deploying, operating, and managing disparate devices," said **Phil Marechal**, vice president of product management and business development, Yamaha UC.

The Intel Unite solution comprises an



Yamaha's new YVC series in partnership with Intel Unite

Intel Core vPro processor-powered hub that communicates with the app for PC, Mac, or tablet devices and a small server component that orchestrates and manages the solution across devices and hubs throughout the network. From the Intel Unite app, users can mute products and control the unit's volume and camera zoom, right alongside the platform's other capabilities. The app is available now for all mobile devices and operating systems.

The Intel Unite solution is designed to simplify the meeting experience through a central, user-friendly management platform designed to integrate with a business' chosen UC system and meeting technology. Yamaha's USB audio and video products, together with the Intel Unite solution, give organizations a complete system that's ready to transform the participant experience without adding to IT's heavy workload.

XILICA APPOINTS SENNHEISER AS DISTRIBUTOR FOR INDIA

Xilica, announced the appointment of Sennheiser India, the local subsidiary of Sennheiser electronic GmbH & Co. KG, as its distributor for India effective December 11, 2019.

Based in Gurugram, Haryana, Sennheiser India will sell, stock and support the full range of Xilica-branded DSP solutions including the award-winning Solaro Series for fixed installation and the definitive X2 Series for live sound, alongside the XTtouch and XWP peripheral product lines.

Managing a sizable network of leading channel partners across its distinct markets, Sennheiser India will offer Xilica

products to qualifying dealers across all Indian states, backed by both the local support of the distributor and Xilica's regionally-dispersed global support teams. As infrastructure development projects continue to grow in the Indian market, alongside increasing technological advancement, Xilica and Sennheiser India welcome this new, striking collaboration to better serve their joint customers operating in professional audio and integrated systems with advanced, cost-effective DSP products that fit the business needs of today's integrator.

"We're delighted to welcome Sennheiser

India to our fast-growing global distribution network," stated **Barry Steinburg**, Regional Sales Manager, Xilica. "As we continue to move into new markets and grow our presence in existing territories, we're fueled by the continued success of and demand for Xilica's next-generation Solaro & X2 DSP solutions. Integrators across India have already found incredible results with our cost-effective, all-modular DSP range and now, buoyed by the outstanding network, capabilities and sophistication of the Sennheiser India team, we're excited to be offering the best possible experience to our customers locally."

CHRISTIE EXTENDS ITS FLAT PANEL LCD LINEUP WITH BEZEL TILEABLE 55 AND PROFESSIONAL DISPLAY

With their 0.44mm/combined 0.88 mm extreme narrow bezel, TAA-compliance, and 4K at 60Hz delivery, the two new Christie 55-inch Extreme Series flat panels deliver a powerful punch for military and government installations, utility and other mission-critical control rooms, and visualization labs requiring the latest intelligent design electronics, advanced performance, and video wall optimization.

The flagship of Christie's Extreme Series, the FHD554-XZ-H and its HR sibling are equipped with HDMI 2.0, HDCP 2.2 connectivity, and an OPS slot to accept a variety of processing modules including Christie Phoenix EP for a complete solution package.

"The new FHD554-XZ-H/HR models feature Christie's latest generation of tiled LCD technology featuring the next evolution of combined bezel to date

inches, complying with the Americans with Disabilities Act (ADA).

"Customers require a seamless look with tiled LCD video walls and a key component of making it look seamless is to match the brightness and color of each of the displays in the video wall. Our advanced factory calibration eases the installation and calibration of the LCD video wall by



Christie's 98-inch 500-nit professional display



Christie FHD554-XZ-H/HR 55 inch tileable LCD panels with 0.44 mm bezel

and a platform that further improves the performance of our tiled LCD solutions," said **John Dixon**, senior product manager, Christie.

The FHD554-XZ-HR is Christie's remote power model that provides improved reliability while delivering mission-critical uptime and redundancy capabilities. For customers wanting an ultra-slim profile for their video wall, the FHD554-XZ-H/HR combined with Christie's ML25 mount can deliver a total depth of less than four

tuning the displays brightness, color temperature, and colors," added Dixon.

Christie welcomes TAA-compliant SUHD983-P flat panel to Secure Series family

Part of Christie's Secure Series, the new 98-inch flat panel can be installed in either portrait or landscape mode and is equipped with advanced input connectivity supporting up to 8K. Four separate content-filled windows can be displayed simultaneously, making it ideal for collabo-

ration rooms and visualization labs where multi-view, no-compromise visuals are critical. It is also ideal for environments with secure video transmission requirements.

"Christie has also future proofed the panel with the latest of input connectivity so as source devices improve, the SUHD983-P will be capable of optimizing content," added Dixon.

Built into the Christie SUHD983-P is multi-source viewing and scaling, eliminating the need for an external processor in the most common use cases.

"When it comes to image processing solutions, there is a wide variety of performance requirements and capabilities necessary to meet the varying needs of our customers. Our processing solutions like Spyder and Phoenix are great examples of Christie's capabilities to tailor the processing for the particular application requirements," explained Dixon. "With the built-in capabilities that we are delivering with the SUHD983-P, customers looking to do basic scaling and multi-source viewing can deliver the same functionality as other more basic external image processors."

Both 55-inch tiled panels and the 98-inch SUHD983-P ship in January 2020 with a three-year parts and labor warranty, backed by Christie's renowned customer service.

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ALL WAVE AV UPGRADES MEETING AND TRAINING ROOMS FOR DELOITTE

Deloitte is a leading brand in Audit consulting, financial advisory, risk management and tax services. It has been recognized as number one in both global consulting and management consulting. The bank management wanted to upgrade their training, gym and gaming facilities to enable more natural and convenient interactions between their key managers across the globe.

Allwave AV was approached to help when Deloitte decided to create a new collaboration infrastructure for their employees at their Mumbai office. The scope of the project involved designing training and meeting rooms with high



Cisco Video conferencing solution along with compact wireless presentation system Klik Stik deployed in Deloitte meeting room



Racks placed with integrated modules for control, video conferencing, lightning, network, signal management and displays

end components for a smooth collaborative experience.

Professional group at Allwave AV deployed an integrated collaboration solution for Deloitte. The goal of the project was to create a visually immersive experience in every collaboration space while ensuring that we integrate other modern AV Solutions. Solutions deployed are future ready and flexible collaboration infrastructure wherein their team could access more intuitive tools to conduct meetings, trainings and presentations.

Training rooms and meeting rooms are hosted with high quality displays which delivers incredible clarity when the team is interacting with clients around the world. Cisco Video conferencing solution along with compact wireless presentation system Klik Stik is deployed that allows their teams to turn displays into wireless presentation screens, for optimal video conferencing experience.

All the rooms are designed with room schedulers to provide control, monitoring, Lighting, security and many other specialized applications. All systems use Hiperwall software, Entire system at Deloitte is controlled by Hiperwall software. Racks were placed at rack rooms with integrated

modules for control, video conferencing, lightning, network, signal management and displays. These modules work in the background and faculty can control all of these modules through a wireless iPad.

Allwave Professional service group carefully evaluated the client's requirements and constructed the best possible solution to meet these. The team is constantly exploring new ways to engage and inspire their trainees as well as employees, particularly in case of seminars, events, training sessions, which invigorate audiences with increasingly tech-enabled interactive and dynamic productions.

Final Impression:

The audio visual experience provided to Deloitte creates a great first impression on guests who include global clients and partners. The Crestron control system ensures all the features are easily accessible via a touch-panel, making experience of using the room simpler for meeting participants. Every little aspect has been carefully included and integrated to ensure a seamless communication experience exactly as desired by the client.

The key result is more effective client engagement and communication management at Deloitte.

To book your AD for the magazine or the upcoming Newsletter drop an email to srai@av-icnx.com | cparasrampur@av-icnx.com

AURORA MULTIMEDIA HELPS IIFL ENTER THE AV WORLD

India Infoline- one of India's top seven financial conglomerates in India- recently set up two video walls at its Bengaluru establishment. The video walls were deployed to showcase and promote the company's different services & products, various information and latest updates amongst the visiting customers.

Aurora Multimedia Transceivers worked behind the scene to make all that happen much to the delight of the client and visiting patrons.

Aim

India Infoline determined the need to equip their Bengaluru office with some unique AV set-up that could contribute to the brand promotion to the customers as well as provide a unique experiential functionality to the trading members. The IT department was tasked with mapping the requirement and scouting for the right solution provider who could bring their vision to life.

Through their scouting and Research, the IT department finalized Bangalore-based Digitech Communications at the system integrator for the install. Two video walls design was customized by Digitech- one at the entrance for the patrons and one in the trading area for the traders.

Solution

The IT department while searching for the right product in terms of their vision, budget and performance, came across Aurora Multimedia that perfectly fit the bill.

"We were looking at installing a solution that befit the IIFL brand and also provides best experience to the trading members; setting up video walls was central to the whole idea," commented **Harish Kumar**, Area Operating Officer at IIFL-Bengaluru.

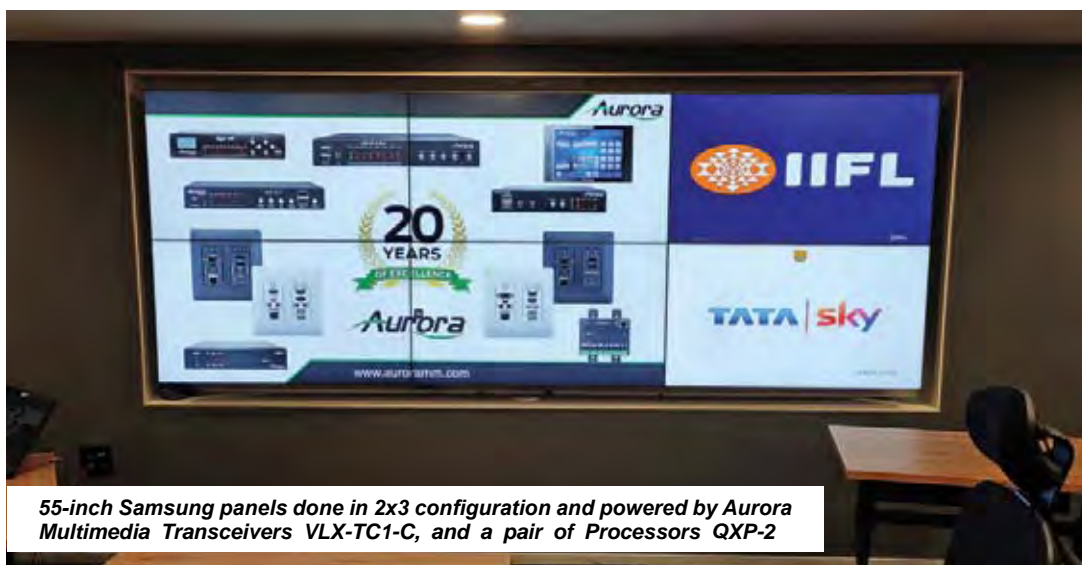
The design customized by Digitech comprised of six 55-inch Samsung panels each done in 2x3 configuration and powered by as many as 12 pairs of Aurora Multimedia Transceivers VLX-TC1-C, and a pair of Processors QXP-2.

"Each display is powered by a pair of Transceivers; so we installed six pairs of Transceivers for 2x3 configuration of video walls both at the entrance and the trading area. The entire video wall is powered by just one processor, the QXP-2 from Aurora Multimedia." Disclosed **Samuel Leo** of Digitech.

Aurora Multimedia is one of the first company to come out with high performance and easy to install transceivers. Their compact design makes it easier to

Trading Area:

To ensure no disturbance is caused in the trading area, the video wall installed here is equipped with a 'acoustical privacy' feature wherein the users can listen to the audio of the content playing in any of the window on the screen, directly in their ears, using Sennheiser stetho receivers. "The user can have either one channel playing on all the six panels making it one large window, or can have six different channels, that's one," described



55-inch Samsung panels done in 2x3 configuration and powered by Aurora Multimedia Transceivers VLX-TC1-C, and a pair of Processors QXP-2

store as they require minimal rack space and cabling work.

The video wall was programmed to facilitate multi-window function so as to allow the user to play different content at once depending upon requirement.

"The most fascinating part of the experience is the ability to monitor and change as per our choice from the handheld control panel," adds in **Harish Kumar**. "It's a made-easy operation which we are all so comfortable with."

"This is probably done for the first time in India- we do not know if any install has this kind of customization," says **Nataraju Upputuri**, Director of Aurora Multimedia India.

Samuel. "Two- having the audio of six different channels in one go will only create a muffle, so, we brought in a customization of choosing the desired channel's audio by means of the stetho receivers. The user can switch between the channels as when they want."

The Aurora transmitters not only receive signals but also transmit the signals. The signal received is then split into the various channels that is played on the screen and its audio is sourced by the stetho receivers. "It's been a smooth and happy functioning thus far," mentions **Harish Kumar**. "We haven't seen any issue till now. We trusted the Aurora brand, and it is working so good."

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NETFLIX CHOOSES LUMINA SCREENS FOR THE PREMIER OF 'TYPEWRITER'

Lumina Screens a part of Galalite Screens, under GTC Industries, that manufactures projection screens for a wholesome viewing experience at home, corporate offices, or auditoriums, recently installed a video wall for the premier screening of 'Typewriter' Netflix is the major streaming option for home television audiences.

Netflix is one of the biggest names in entertainment, producing critically acclaimed TV shows as well as movies, and hosting original comedy specials. Netflix offers a wide range of content across every genre you can imagine.

Requirement:

The premier was handled by Fountain-head MKTG who then appointed Lumina screens for the screening. The brief given to Lumina screens was simple, they needed a screen that would not alter or enhance the original quality of the series or the projected image and have good acoustical transparency. They required a screen which had a unity gain (i.e. 1 gain) that will be acoustically transparent.

Solution:

Since the requirement of the client was very specific, Lumina screen used their most basic level screen that could fulfill the clients' needs. They used a Matte white Micro Perforated screen. This screen had a unity gain which could be used with 4k projection. Micro perforations on



Matte white Micro Perforated screen used for the premier of 'Typewriter'

the screen, allows the patron to get an immersive audio impact which replicates any cinema requirement. This Screen has perfect matte white diffusing surface that ensures extremely broad light dispersion and spectral uniformity. The surface diffuses projected light in all directions, so the image can be seen from any angle. They have used the same screen earlier for the premiere of Narcos 4 and got the best results which increased their confidence on Lumina screens and the product quality of Lumina screens.

'We have worked with Lumina screens for the past here and have loved their

work. Their screen selection is always perfect for our requirement. Even Rohit has been very supportive. He always comes on site to help us out with the installation. Since we are an event company, for us this is all new, using a screen and setting it up, but we received a tremendous amount of support from Lumina. The quality of the screens is also great. Being an event company, we run on very tight deadlines and Lumina has always met our deadlines. We have been very happy with their service.' Commented **Joshua Pereira**, Assistant Manager- Production, Fountain-head MKTG.



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WORLD-CLASS AUDIO CONFERENCING CAPABILITIES FROM BOSE PROFESSIONAL AT MINTO HALL

"We take pride in telling the world that the heritage Minto Hall has been converted into a first-class international standard convention centre. We have successfully converted a 100 year-old heritage building into a world-class convention centre, ensuring that it did not lose its heritage character while equipping it with ultra-modern conferencing amenities. We are proud of the rich heritage that has been conserved" quoted **Hari Ranjan Rao**, principal secretary of MP Tourism as he refers to the state-of-the-art conferencing capabilities at the newly renovated Minto Hall in Bhopal, which has been made possible thanks to leading-edge and future-ready solutions from Bose Professional.

"Minto Hall's restoration plans included provisions for conferencing where patrons would be welcomed to use the premise's world-class facilities. Reviewing the site plan; it was clear that each of the seminar rooms, board room and committee room would need their own dedicated audio infrastructure. The venue's management were clear that they desired bespoke audio solutions that's easy-to-use, quick to setup and low on maintenance; and that could be perfectly tailored to the respective room's physical dimensions and aesthetics with the assurance of a high-quality audio experience. Bose Professional was the obvious choice considering the brand's wide portfolio of technologically advanced products perfectly fit the project's needs" reveals **Aparjit Dhamija** of



The Board Room has been outfitted with loudspeakers, amplifiers and controllers from the FreeSpace and ControlSpace series of products

Fortune Telecom, the project's official audio consultant.

The integration team comprising members from Fortune Telecom and technical experts from Bose Professional worked closely on guidelines shared by venue management and the project's principal architect **Puneet Sohal**, and eventually narrowed down on the perfect combination of products to suit each of the individual spaces.

The Committee Room and Board Room have been outfitted with an amalgam of loudspeakers, amplifiers and controllers from the FreeSpace and ControlSpace series of products which have been acclaimed across the globe for their dexterity and efficiency in performance value and power-output. Multiple units of the compact and powerful DS40F in-ceiling speakers provide uniform coverage and intelligibility throughout the Committee Room which features a lavish square conferencing table that holds a total capacity of 24 seated delegates and sports a slew

of 12 gooseneck microphone units along with a single hand-held wireless microphone, all of which facilitate high-quality audio and speech pick-up. Processing and system management here takes place through a single unit of the EX-1280C AEC capable DSP along with a single unit of the EX-8ML 8-channel Dante based DSP Input expander, while the power is derived from a single unit of the powerful and efficient PS604A amplifier from the PowerShare series. On the other hand, the Board Room featuring a plush 15-seater rectangular conference table with 9 gooseneck microphones and 1 hand-held wireless mic as the audio pick-up solution, sports the use of multiple numbers of the DS40F in-ceiling speaker units as the loudspeaker solution that assures high quality intelligibility, controlled through the efficient ESP-1240 audio DSP and powered by the nimble iZA 190HZ mixer amplifier.

Alongside, the two seminar rooms leverage Bose' dexterous portfolio of products



Vibhor Khanna, Country Manager, Bose Professional India

from the acclaimed Panaray series, with each of the rooms boasting astute individual systems that have been designed to be aesthetically appealing and capably host seminars, meetings, as well as intimate scale music playback. The first room features a loudspeaker setup comprising the 402 series IV loudspeakers along with 502B subwoofers as the primary system with added reinforcement in the form of 310M monitor-speakers, all of which are powered through the ever efficient PowerMatch series PM8500 amplifiers. The second room has been outfitted with the

Room is exactly what the space needed in terms of a system that's not just easy to use and maintain, but also delivers high level of intelligibility and sonic performance. The team have managed to deliver the same kind of world-class sound experience at the seminar rooms as well; and the overall results are positively astounding. We can now proudly assert that Minto Hall provides a truly world-class conferencing and board-room experience, in addition to a magnanimous convention scene!" exclaims **Jitendra Bhardwaj**, executive engineer at the Madhya Pradesh

floors of the premise' expanse feature a range of install specific products from the acclaimed FreeSpace and ControlSpace series.

Feedback from the venue's official representatives including Mr Bhardwaj and several others affirms that the sound experience at the new-look Minto Hall has been beyond impressive. Sources confirm audiences including the high-profile delegates and political leaders who visited the premise during its inauguration, were extremely impressed with the sights and sounds experienced across the entire

premise. The honourable Chief Minister of Madhya Pradesh Shivraj Singh Chouhan, who inaugurated the revamped Minto Hall, termed the restoration as an 'incredible intervention and an example for restoration of heritage', and exclaimed about the experience of the rejuvenated ambience saying, "Bhopal should feel proud about the intervention."

An ecstatic **Vibhor Khanna**, Country Manager, Bose Professional India, proudly exclaims, "We couldn't be prouder. To be chosen as the official audio solutions partner for such a prestigious project like the

Minto Hall, and then to be appreciated by the venue management as well as the high-profile customers that the venue caters to; it is such an honour, and a massive pat on the back. Such feedback is what motivates Bose Professional to keep pushing the boundaries of high-quality pro audio technology, and reaffirms our team's potential to continue providing the best technical service and customer experience out there. Our heart-felt thanks to Mr Dhamija and his team at Fortune Telecom for doing such a fantastic job! It was an absolute honour for us at Bose Professional to be part of such an amazing project."



Minto Hall auditorium's system consists of Left-Right asymmetrical RoomMatch arrays, with the left array comprising RM602810, RM602820, and RM602840 modules, while the right array comprises RM286010, RM286020, and RM286040 modules

MA12EX column array loudspeakers along with F1 series subwoofers as the primary system, while the 310M monitor-speakers provide further reinforcement, with the entire system powered through PowerMatch series PM8250 amplifiers. Using an amalgam of loudspeaker from the Panaray series across both meeting rooms empowered the technical team to ensure a uniform aural experience that maintains consistent tonal signature and balance, which delivering high performance output that adequately suffices the respective room requirements.

"The Bose conferencing solution integrated at the Committee Room and Board

State Tourism Development Corporation (MPSTDC).

Restoration of the Minto Hall, which was initiated by the state, has witnessed a plethora of improvements being added to each of the individual sections of the property, including the main hall, which now stands are the primary convention space, outfitted with an avant-garde audio system featuring the revolutionary RoomMatch loudspeakers, PowerMatch amplifiers and ControlSpace processors to facilitate a wide range of MICE activities. In addition to this, five other spaces of varying capacities and specific application purposes that are spread across the three

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IT'S A SMALL STEP TO A GIANT LEAP



The third mixer based on our 96kHz XCVI FPGA engine, Avantis puts all our next-generation technology in a standalone 64 channel / 42 configurable bus console, with dual Full HD touchscreens, a super-flexible workflow with Continuity UI, extensive I/O options, add-on processing from our flagship dLive mixing system, and a rugged full metal chassis.

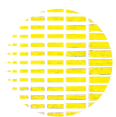
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ACOUSTIC SIMULATION SOFTWARE FOR INTEGRATORS, ENGINEERS & ACOUSTICAL CONSULTANTS

Auditoriums have witnessed a recent growth in number in India and the number keeps growing. One can now find Auditoriums in various facilities like universities, research institutes, schools, clubs, colleges, government infrastructure. With these new and upcoming auditoriums, there is a serious need for a designing software to assist the Integrators, engineers and Acoustical consultants during the planning of any auditoriums. In this feature, AV-ICNx highlights- E.A.S.E software, a tool that comes in handy during the designing and planning stage.

Enhanced Acoustic Simulator for Engineers or better known as EASE is a simulation of electro-acoustic systems and room acoustics which can be used by acousticians, consultants, specifying engineers, installation companies and other professionals.

Benefits of EASE simulation:

- Easy calculations by the industry standard electro-acoustical simulation software.
- Helps with awareness of obstacles that would remain hidden without simulation.
- Effortless analysis and solving of acoustical problems before they arise.
- Quick access to the largest and highest quality loudspeaker database to find the optimal solution.

The EASE software is multi-featured, thus improving the quality of acoustical simulation as a whole. Some key features include:

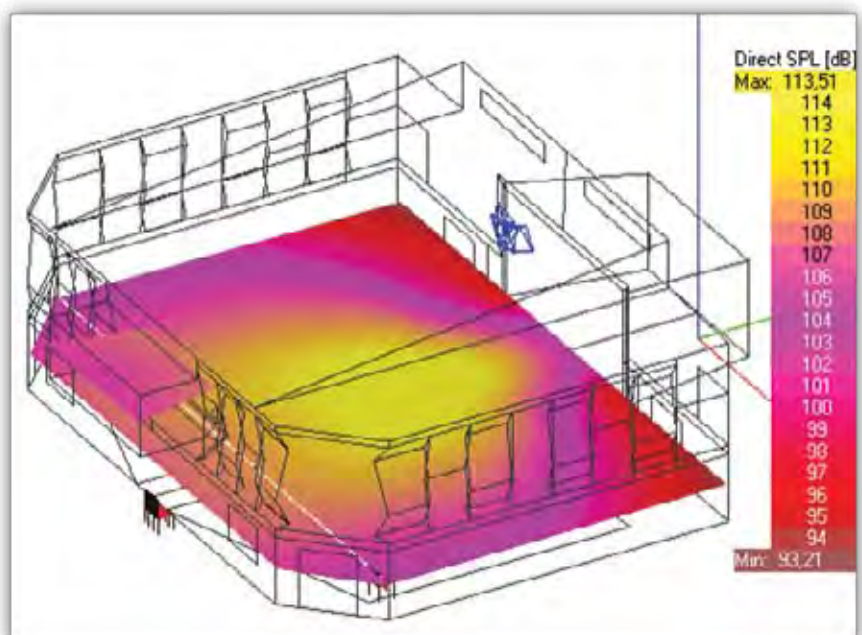
Features

Built-in drawing module for con-

struction of a 3D acoustical model

Using the EASE modeling tools an acoustical model can be built quickly. Closed rooms can be modeled in addition to open spaces, such as arenas and stadiums. Creation of

vertices, lines, surfaces, groups and a number of object and room templates. They also have automated functions for insertion of multiple items and tables for editing or comparing multiple items.



Standard Mapping with Reflections

The room can be viewed and rendered in a number of different ways. This is particularly helpful when constructing more complicated room models.

Database of acoustic materials

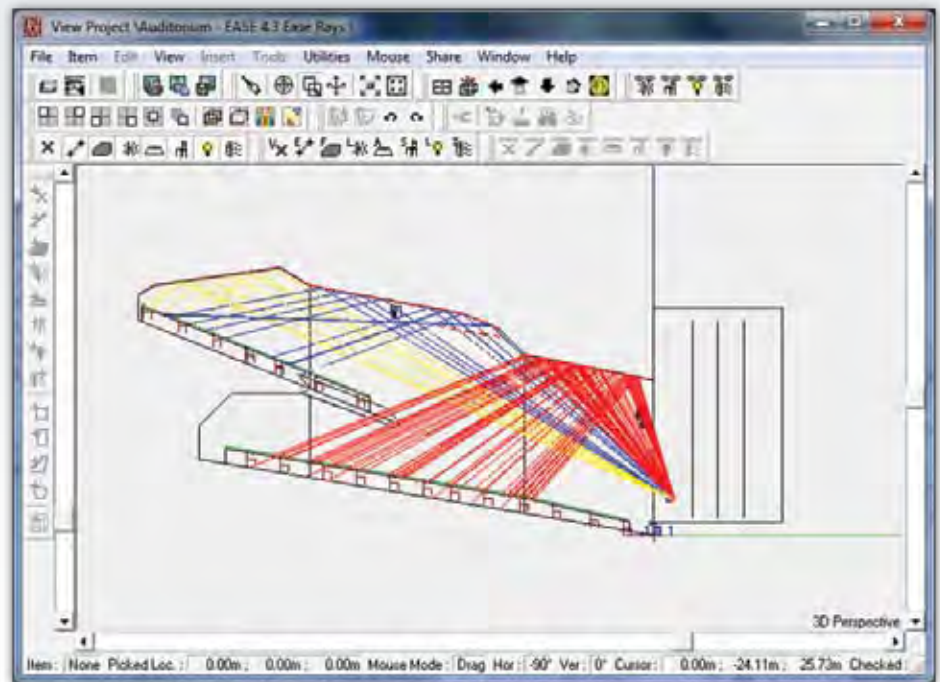
EASE contains an extensible database with more than 700 different acoustic materials including commercial absorbers! The database makes it easier to create and add materials to the program catalog with the Wall Material Database module or modify existing data sets at any given time.

Standard room parameters:

The software makes it easy to calculate standard room parameters like room volume, Effective surface area, Total surface area, Mean free path length, Average absorption coefficients, Material coverage statistics and much more. In addition it can also determine the distance and sound propagation time between any two points in the model.

Reverberation time calculations

One of the first calculations to be performed, after having completed the acoustical model building, is the reverberation time. The software can immediately display the calculated figures based on Eyring or Sabine formulae and use it for a number of related simulations. This intuitive Optimize Reverberation Time tool helps to save valuable time, avoid-



Reflection Pattern Studies with Ray Tracing

ing the need to experiment with different wall material on different surfaces to adapt the model to real-life requirements.

Database of sound sources

The software allows to Perform accurate electro-acoustic simulations with high-resolution sound source models based on real life systems.

Virtual sound system control:

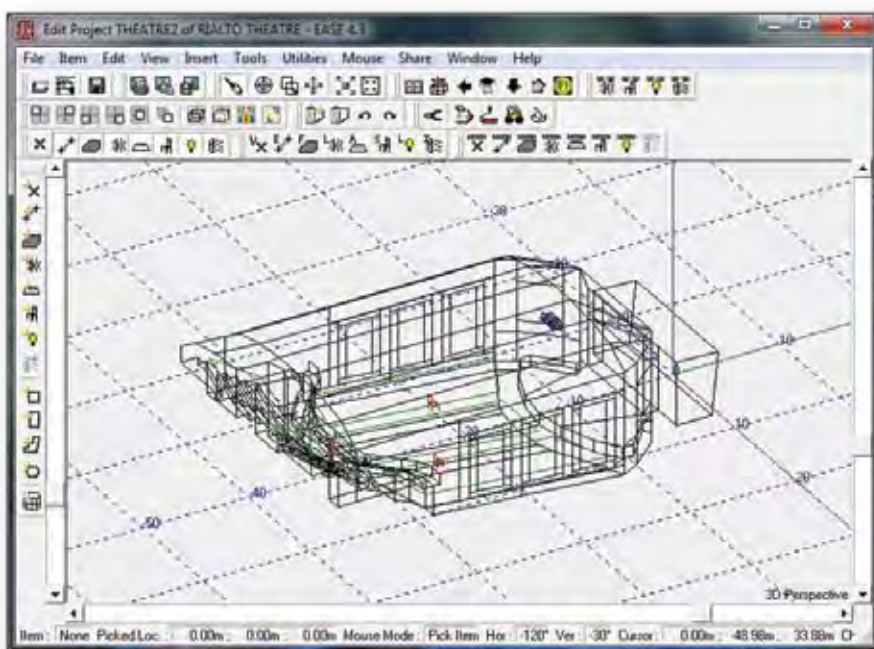
The software enables Full virtual sound system control at your fingertips which includes individual loudspeaker controls, such as, Level and Gain, Delay Time, Driver Alignment, Filters, Phase, Polarity, Position X, Y, Z, Electrical Input Power and Extended controls (mechanical, electrical and physic parameters).

Loudspeaker clusters:

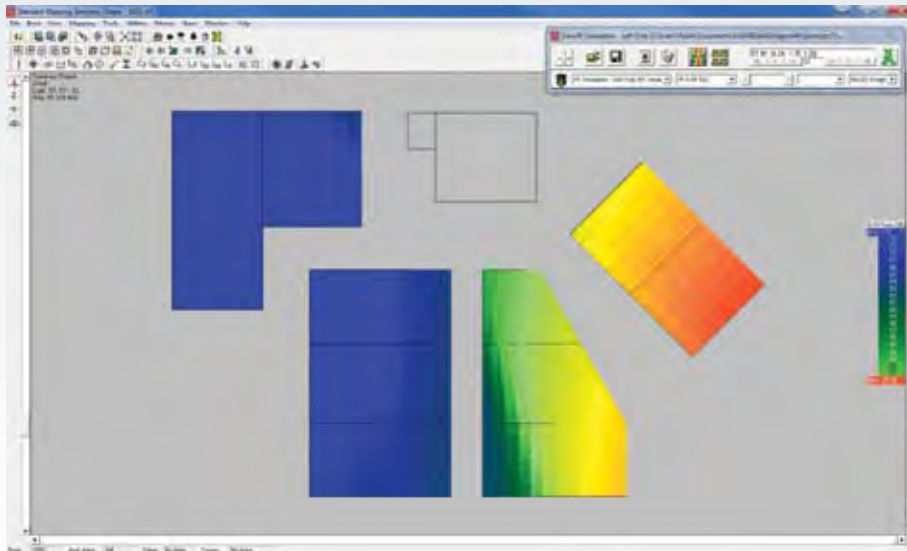
Calculation times can have a significant effect over the overall design time budget, depending on the project complexity. The Cluster Calculation module is one of the services provided by EASE to help handle such situations by, for instance, combining closely spaced sound sources in a single loudspeaker cluster. After the combination is done only a single resulting loudspeaker object remains, representing the combined sources. The reduced number of sources allows the loudspeaker system to be handled more easily in a large room model and also reduces computation times.

Standard Mapping:

The Standard Mapping feature which allows a large number of simulations to be performed based on the diffuse field assumptions of statistical acoustics. Standard Mapping makes use of Eyring or Sabine statistical formulas to generate RT figures that will be used to calculate some



Built-in drawing module for construction of a 3D acoustical model



IR Devices Simulation Module

acoustical parameters, such as the STI (Speech Transmission Index) and the Total SPL. Measured RT data can also be used for this type of mapping.

Statistical tools:

Maximum and minimum values, standard deviation, average and distribution graph are some of the statistical resources that you can use to optimize the system performance as well as to illustrate the simulation results.

In particular, tenders often ask for coverage figures, such as an STI of 0.5 or better for 90% of the area of interest. Software like this have such information available on a single mouse click. Distribution graphs can be viewed for all frequencies and all kinds of acoustic results.

Reflection pattern studies with Ray Tracing

A sound source generates an impulse: a number of particles (or rays) are released into the room, propagating at the speed of sound. As they travel, they lose energy due to air absorption, which is especially noticeable at higher frequencies. Eventually a particle hits a room boundary - or an obstacle - loses more energy, and is reflected back to the room, in an iterative process.

The program keeps track of each particles path, energy and time, until pre-determined limits are reached (such as propagation time, reflection order or energy loss). This tool stores information about all reflections so that, ray by ray, you can identify potential geometry problems and evaluate possible solutions. Ray tracing is also a great presentation tool for demonstrating complicated acoustic problems very intuitively.

Room RT:

The Local Decay Time feature of EASE allows you to perform a quick check of local Reverberation Time figures through a special Ray Tracing technique, producing more accurate local results than the statistical formulas in a short time frame. The calculations can be performed at several locations in the room simultaneously.

How it works:

The software sends out a customizable number of rays from the selected listener positions. As the rays travel through the room, the program keeps track of their energy and time. Each ray is computed for 60 dB loss and averaged with all other rays. This average is then used to predict the Local Decay Time at each specific location.

In-depth reflection analysis:

The (find) Ray Tracing Impacts feature is a stochastic approach to model the propagation of sound in the room, giving the opportunity of performing a comprehensive analysis of reflections that are detected at specific spots - i.e. at Listener Seat locations.

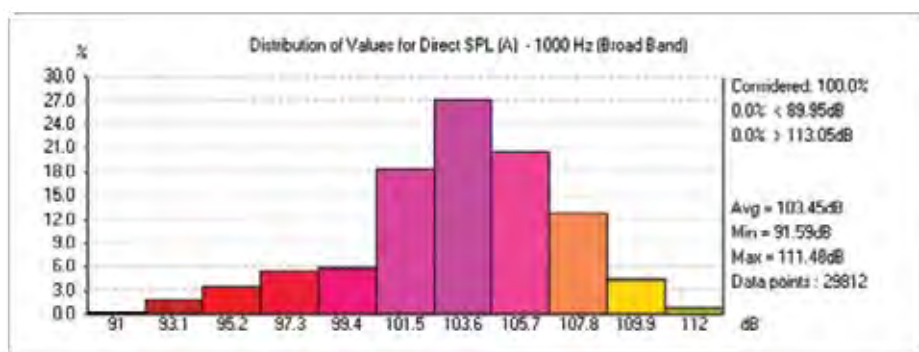
IR Devices simulation module:

The Infrared (IR) extension module allows to simulate the performance of infrared communication systems and devices, such as Transmitters and Modulators in a similar way as for sound systems and loudspeakers.

The Software is capable of simulating the direct radiation of such devices and of computing figures for the signal-to-noise ratio. EASE InfraRed also provides a receiver database. Using specific InfraRed receivers is especially helpful to allow evaluation of local SNR using these specific receivers.

Powerful presentation tools:

In addition to the power of auralizations as a presentation tool, EASE includes a dedicated Architectural rendering module called Vision. Vision delivers enhanced graphical presentations due to its light and textures rendering capabilities, being able to generate photo-realistic images. The Texture and Light databases in EASE are fully customizable, letting your creativity free to produce amazing drawings, including light reflections, transparency, colors, background images and different light sources!



Statistical Tools for Enhanced Evaluation of Simulation Results

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PRODUCT FOCUS OF THE MONTH

When setting up a sound system in a large venue that aims to reach an audience of few thousands, it becomes crucial to consider technical factors like coverage requirements. Fortunately, sound techs today have an extensive range of sound reinforcement equipment at their disposal. Choosing the right sound system for a particular venue can at times get daunting. In this product focus, **AV-ICNx** highlights ten state-of-the-art options for **Large Indoor Venues**. This list is intended to be a guide and does not endorse any product.

BOSE - F1 MODEL 812

Bose F1 Model 812 is a 1000-watt, full-range loudspeaker featuring Bose Flexible Array technology. At the heart of the F1 is a 30-cm woofer nested behind an array of 8 high-output drivers. These 9 speakers are supported by a lower crossover point than conventional loudspeakers to give full voice to your sound and deliver clearer, more natural vocals and midrange clarity, even at high volumes. And you control the vertical coverage pattern. So, wherever you're playing, you can adapt the PA to match the room. Bose F1 Model 812 comes with 132 dB max SPL and low-frequency performance down to 43 Hz (-10 dB). Optional Bose F1 Subwoofer (sold separately) for even more low-frequency response with integrated speaker stand for F1 Model 812, built-in 1000-watt amplifier, hidden cable channels for clean appearance and built-in handles for easy transport.



JBL- INTELLIVOX DSX430

The Intellivox-DSX430 is the second tallest of Duran Audio's fully integrated digitally controlled loudspeaker arrays. A single Intellivox-DSX430 is capable of covering an area of up to 50 m while maintaining an even sound pressure level. Its array length not only offers long throw capability but also extended control at lower frequencies, making it ideally suited to highly reverberant environments. The thirteen, custom designed, 4" loudspeakers and eight 1" dome tweeters are driven by a sixteen channel class-D amplifier, powered by a sophisticated switched mode power supply, all of which combine to ensure years of reliable operation.

The dome tweeters in the DSX units not only improve the horizontal coverage at high frequencies but also enhance the subjective sound quality of the system for



both speech and music.

An extensive set of surveillance functions have also been implemented to meet the stringent demands of typical Voice Alarm (life safety) applications.

The unit can be controlled using our proprietary WinControl software which offers user friendly control of the beam steering parameters, audio processing, pre-sets and surveillance features. The increased lower frequency control offered by the array makes the Intellivox-DSX430 suitable for easy and unobtrusive implementation in highly reverberant and architecturally sensitive environments. The low frequency response of the system can be easily extended using a JBL sub woofer system.

D&B AUDIO - VI12 LOUDSPEAKER

The Vi12 is a 3-way passive design housing 2 x 10" LF drivers, one hornloaded 8"MF driver and two 1.4" exit HF compression drivers with 2.5"voicecoils mounted to a dedicated waveshaping device. The symmetrical dipolar arrangement of the neodymium LF drivers around the centrally mounted coaxial MF and HF components allows a smooth overlap of the adjacent frequency bands in the crossover design. This results in an exceptional 120° horizontal constant directivity dispersion control nominally being maintained down to 250 Hz. The mechanical and acoustical design enables flown vertical arrays of up to twenty four loudspeakers. It can be used in columns of purely Vi12 loudspeakers or combined with Vi8s and / or with Vi-SUBs. The cabinet is constructed from marine plywood and has an impact and weather protected PCP (Polyurea Cabinet Protection) finish. The front of the loudspeaker cabinet is protected by a rigid metal grill backed by an acoustically transparent foam. The loudspeaker cabinet is also available in Special Color (SC) and Weather Resistant (WR) options. The Weather Resistant option provides an IP55 rating, and enables operation of loudspeakers in changing ambient conditions.



MUGELLO-KS5

The Mugello-KS5 is an incredibly versatile, 21" self-powered subwoofer featuring neodymium magnets with 6" voice coils driven by a powerful Class D amplifier. The large ports are designed to be fully symmetrical to the speakers which means the back loading of the drivers is consistent and even with no port air turbulence. The triangle port construction also provided excellent structural integrity and strength, effectively eliminating any box resonance.



The rear panel provides inputs for both balanced line signals and digital signals in AES/EBU protocol, also on an XLR for ease of cabling.

All DSP functions including EQ can be controlled with remote managing software via USB or RS485, again conveniently on a standard XLR. There are different DSP presets, specifically made by K-array to optimize the system performance of the variety of device configuration available. Additionally, you can also create, save, and store your own personal presets on the Mugello-KS5.

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Martin Audio- CDD-LIVE 12

The CDD-LIVE 12 is a high-performance, self-powered system designed for professional applications that require high output levels and exceptional fidelity from a very compact enclosure. With a peak output capability of 128dB at 1 metre, it is the ideal solution for a multitude of premium stand-alone and distributed sound reinforcement requirements — from touring, theatre and portable live sound, to concert hall and HoW installations, AV events and stage monitor use.

Featuring a high-specification 12" (300mm) LF/1" (25mm) exit HF Coaxial Differential Dispersion driver, it delivers more consistent audience coverage than a conventional system with a fixed X° x Y° coverage pattern and has wide 110° horizontal coverage close-up. The innovative CDD technology also achieves 'point source' summation of the LF and HF sections — eliminating off-axis variations in frequency response associated with non-coaxial designs.

A self-powered system, the CDD-LIVE 12 incorporates a two-channel Class D amplifier, DSP and Dante digital audio networking — simplifying set-up, enhancing control and eliminating amplifier racks. The onboard amplifier delivers 2000W LF + 500W HF peak output to the drivers, and its switched-mode power supply auto-ranges to global mains voltages from 100 to 240V 50/60Hz.

DSP functions — including parametric EQ, delay, muting, gain and preset selection — can be controlled over Ethernet from a PC or Windows tablet via intuitive VU-NET proprietary software.



Meyer Sound- LYON

The LYON system's flexibility, scalability, and ultra-low distortion make it an indispensable tool for any project from concert hall to arenas, from EDM festivals to outdoor symphony performances.

Self-powered technology eliminates amplifier racks, long loudspeaker cables, and any calibration of gain and crossover settings. The system can be rigged and ready in minutes.

As a two-way element, the LYON has fewer crossovers and interactions between different drivers to facilitate greater phase coherence and seamless, uniform coverage.

Low- and high-frequency drivers, patented REM manifold, and constant-directivity horn are engineered for exceptionally accurate coverage control—even at continuously high output levels.

The LYON-M can anchor long-throw arrays for tours, festivals, and arena systems. It also provides a fill

option for a LEO-M array. The LYON-W widens horizontal coverage and the LYON-

WXT option extends vertical coverage for special downfill applications.



YAMAHA- CZR SERIES

The CZR Series is a range of passive loudspeakers offering high power handling and outstanding sonic performance in a portable, lightweight, yet rugged design. The CZR is ideal for a range of live performance and installed sound environments—from live bands at outdoor festivals to DJ's in clubs—these loudspeakers deliver crystal clear, high-quality sound with impressive bass performance. For even more bottom end to round out your sound, adding CXS XLF Series passive subwoofers can extend your system's low frequency performance dramatically down to a startling 29Hz for throbbing low frequency reproduction capability that's sure to impress.

It is a 2-way loudspeaker offering high power handling and outstanding sonic performance in a portable, lightweight, yet rugged design. Its versatile, compact enclosure design makes the lightweight CZR15 ideal for range of live performance and installed sound environments—from live bands at outdoor festivals to DJ's in clubs—these loudspeakers deliver crystal clear, high-quality sound with impressive low frequency performance.



QSC ILA SYSTEM - WL2082-I

Installation-optimized design ILA is a line array system designed specifically for installation in a variety of venues including large auditoriums, houses of worship, sports facilities, clubs and other entertainment venues. ILA System is a complete system consisting of line array, subwoofer, processing, and amplification and suspension accessories. The

result is an accessible system with very high performance, moderate cost and ease of deployment.

Wide 140° horizontal coverage The ILA system features an open, natural sound quality and exceptionally wide 140° horizontal coverage pattern—the widest of any system currently available. As a result, a WL2082-i system will rarely require additional side or center fill speakers and solid stereo imaging is preserved across the listening area.

Low Maintenance Available in black or white, the WL2082-i enclosure is made of high impact polystyrene with extensive internal ribs to eliminate acoustic losses due to sidewall flex. The Installation Line Array may be used in outdoor applications where the system is not directly exposed to the elements. The enclosure material is formulated with UV inhibitors, the grille is made of aluminum and the woofer cones are weather resistant.

Safety Rigging for the ILA is simple, flexible and safe providing a 10:1 design factor with twelve WL2082-i elements in the array. The array is assembled with the included bolts and the relative angle between adjacent boxes is adjustable in 1° increments for precise tailoring of vertical coverage. For those who prefer quick release pins to the included bolts, an optional kit of four quick release pins (QRP-KIT-1) is available.

Intrinsic Correction Modern line arrays rely on digital signal processing to perform their best.



AHUJA- 700 Watts 2-Way Speaker

Ahuja's 700 Watts Professional 2-Way PA Speaker System with Exceptional LF Response, Tremendous Efficiency and Unmatched Intelligible Sound. It has two 15" High Performance LF Transducers and a High Frequency Titanium Compression Horn Driver housed in an acoustically treated Bass Reflex Trapezoidal enclosure with ultra-modern paint finish. Its sturdy and aesthetically designed metal grill lends both protection to the speakers as well as superb looks to the cabinet. The well designed heavy duty metal handles of the 700 watts professional PA system ensures hassle-free mobility and transportation. This system is suitable for both indoor and outdoor sound reinforcement applications and is Ideal for Auditoriums, DJs, Live Concerts, Discos and etc



NEXO- GEO M6

GEO M6 systems can be flown, groundstacked or pole-mounted on subs. Lightweight polyurethane composite cabinets measure just 191mm high x 373mm wide x 260mm deep. Ideal for installation in design-sensitive interiors, GEO M6 cabinets, fabric grilles and accessories can be specified in any RAL colour.

GEO M620 and M6B cabinets measure just 191mm high x 373mm wide x 260mm deep. The 3-point rigging system is hidden inside the cabinet, reducing visual impact.

A comprehensive range of hardware is available for fixed and mobile applications.

Lightweight polyurethane composite cabinets, fabric grilles and accessories can be specified in any RAL colour.

GEO M620 main and M6B bass extension cabinets can be flown in the same array to create a compact, powerful and discreet system, ideal for installation in small theatres and conference halls.

Pole-mounting a pair of GEO M620 Main cabinets on a NEXO LS18 or LS600 subbass cabinet quickly creates a high-output, full range system.

The combination of high power and low visual impact makes GEO M6 the perfect choice for use in live events. A comprehensive range of mobile rigging accessories makes it easy for contractors and rental companies to achieve exceptional sonic performance without impinging upon the production design.

NEXO has built a global reputation for the quality and performance of its concert line array systems. Now GEO M6 brings NEXO technology to installed sound applications, delivering the key benefits of uncompromised full range sound and consistent SPL coverage.



CONNECTING INDIAN AV INDUSTRY



AV-ICN_x
EXPO 2020

28 29 30

MAY 2020

Bombay Exhibition Centre,
Goregaon (E.), Mumbai, INDIA



BE PART OF A THRIVING AV-ICT INDUSTRY AT AV-ICNx 2020

FACTORS DRIVING GROWTH

01

- Rapid urbanisation and industrialisation
- Increased awareness of the need for automation
- Advent of IoT and Internet-based security
- Advances in audio, video & display technology
- Advent of Smart buildings
- Impact of Artificial Intelligence (AI)
- Expanding Broadband & Faster Internet Speed
- Cloud, Edge Computing, and 5G
- Meeting rooms, huddle rooms and command & control rooms, necessitate better video conferencing and AV technology solutions
- Advanced streaming media, storage, and distribution platforms

APPLICATIONS IN HIGH GROWTH SECTORS

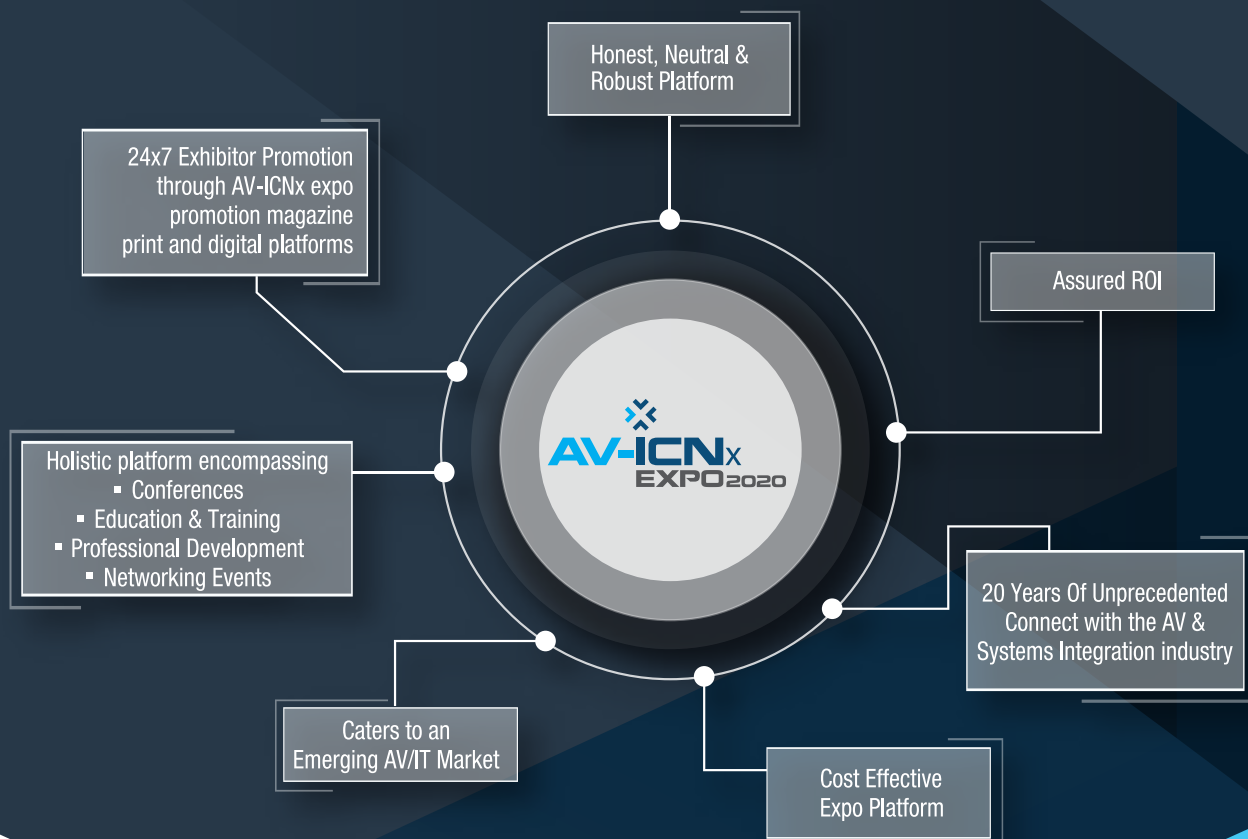
02

- Hospitality
- Retail
- Education
- Sports
- Corporate
- Commercial Infrastructure
- IT Parks
- Residential Development

The AV Industry is fast evolving into a hi-tech sector and AV-ICNx presents itself as a platform providing affordable opportunity to industry manufacturers from across the world to showcase latest technologies and solutions.

WHY AV-ICN_x IS THE BEST CHOICE FOR YOUR COMPANY

AV-ICN_x 2019 launched concurrently with PALM Expo in Hall Number 3 opened to a warm and appreciative reception from the AV Industry spread across India and offered exciting opportunities to manufacturers, channel partners and end users. The success of the Inaugural edition of AV-ICN_x along with PALM expo's consistent growth, proven track record and synergy with the AV & Systems Integration in India ensures that your participation in AV-ICN_x 2020 will be a catalyst to business growth, success and assured ROI.





Having attended Expos & seminars across the world, always aspired that some individual or group from our country may start similar for AV industry & the wish has been fulfilled by AV-ICNx Expo.

Rajeev Arora
Principal Consultant
– Qubix Technologies



It is great news and also extremely exciting to see that the AV Industry in India has matured to a point where a new trade show, magazine and training programme is being launched. Besides, it is a locally based expo and focused on India - two very important factors in my opinion for the successful development and self-determination of the Indian AV industry. Congratulations to the AV-ICNx Team on the launch of this show, besides, the successful PALM Show will enable more people to visit, as the costs for show attendance for all involved will be reduced. The opportunities to network and interact with manufacturers and end users in one place and at one time will be amplified.

Kelvin Ashby-King
Principal Consultant and Managing Director
-T2 Consulting Group.



AV-ICNx, I feel is the most awaited foray from the already popular PALM Expo! I envision it to be a one-stop mega event for emerging cross-platform product tech and application experts, backed by a devout team to ensure a maximum blend of exhibitors, trainers, speakers, and visitors.

Milind Raorane
Electro-Acoustic Consultant and Director
– Soundframe



It's good to be at places like this (Walk of Fame Project Gallery). Normally we go around client offices and sites spending significant amount of time to explain what we could do for them; here, we have the breathing space to sit and explain our competency and expertise to multiples of people and groups. That the event programme had almost all of them involved in technical sessions, it appeared to be more comforting for these exhibitors to be in sync with the show, and their profession.

Narendra Naidu
Managing Director
– Rhino Engineers



PALM Expo this year has added another domain in the form of AV-ICNx to the entire platform which all these years was linked only to audio and lighting solutions. This year with the inclusion of the video and display solutions, we have also taken an aggressive stance with one of the largest booths in this hall.

Mahesh Soni
National Business Manager
– BenQ India



This was our first time participation in AV-ICNx 2019 exhibition and we can't fault the experience. The quality of prospects has exceeded our expectations. We've had visitors come to our stand who knew that we were exhibiting thanks to the pre-event marketing campaign, which has resulted in quality footfall and lead generations. The AV-ICNx 2019 team was very efficient throughout the process and we are already looking forward to the next edition.

Harish A K
GM - Visual Products
– Epson



SUCCESS STORIES



We have been associated with the PALM expo since the last three years and this is our first year as exhibitors at AV-ICNx. The experience has been tremendous. The space, venue and the infrastructure is quite adequate. The kind of audience targeted was very particular. We got the right audience at our stall, which I loved the most. It was well marketed, so the people were well aware about the event.

Vijay Joshi
Director
– Cubix Microsystems India



An excellent event showcasing the strength of the AV Industry in India. Very well organised to make it inclusive by getting Industry Experts and AV users together on an open forum. Look forward to more of these events in the times to come.

Sachin Prabhudesai
– VP Projects,
Actis Technologies Pvt. Ltd.



EXHIBIT PROFILE

WHAT YOU CAN SHOWCASE AT AV-ICNx



- Audio Video Software
- Projection Systems
- Conferencing Equipment & Technology
- Control/Interfacing



- Digital & Analogue Hybrid Systems
- Big Screens & Video walls
- 3D Displays, LED Display, Digital Signage & Interactive Displays



- Home theatre systems
- Mounts, Speaker supports, AV equipment
- Racks and Accessories



- Cable & Connectors
- Streaming and Media Storage & Distribution
- Switchers & Scalers
- Test & Measurement Equipment



- Networking
- Public Address (PA) & Paging
- Signal Management & Processing

HOME CINEMA


AV-ICNx
EXPO 2020

THE FUTURE IS HERE

LET YOUR BRAND BE IN THE FOREFRONT OF HOME TECH PROFESSIONALS
ATTENDING THE SHOW TO SOURCE THE LATEST IN HOME TECH INNOVATION

Over 20 years, PALM has been the sourcing expo for speakers, with the world's leading audio brands present in strength. The world's largest bank of educated engineers, leading AV consultants and home tech professionals delivering home cinema consultancy and integration, having influence over purchasing decisions is the audience at AV-ICNx 2020

AV-ICNx OFFERS EXHIBITORS AN OPPORTUNITY TO HIGHLIGHT A RANGE OF THE WORLD'S
FINEST TECHNOLOGIES FOR HIGH-END HOME CINEMA. THIS SEGMENT FOCUSES ON HIGH-END

**HOME
SURROUND
SOUND**

PROJECTION

DISPLAYS

PROCESSORS

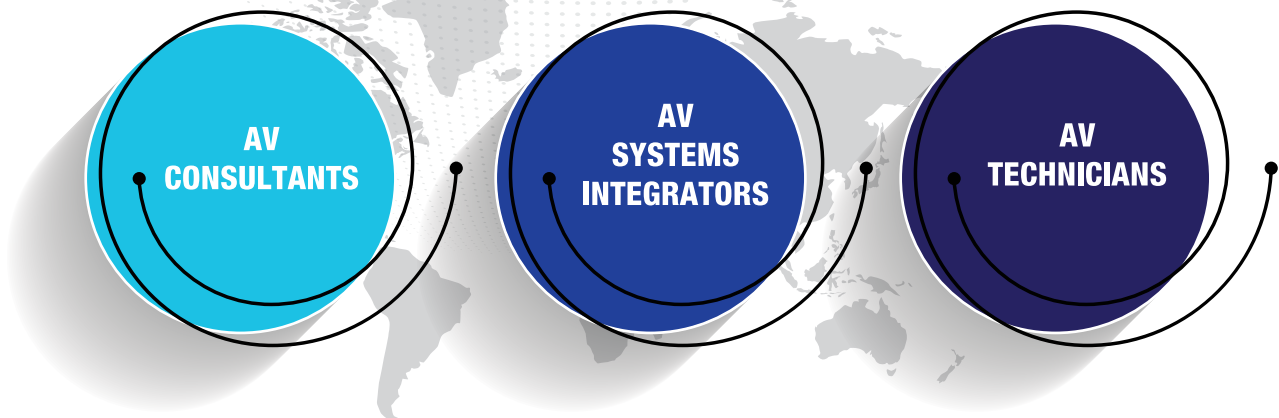
VISITOR PROFILE

THE ACTION BEGINS HERE

KEY SEGMENTS



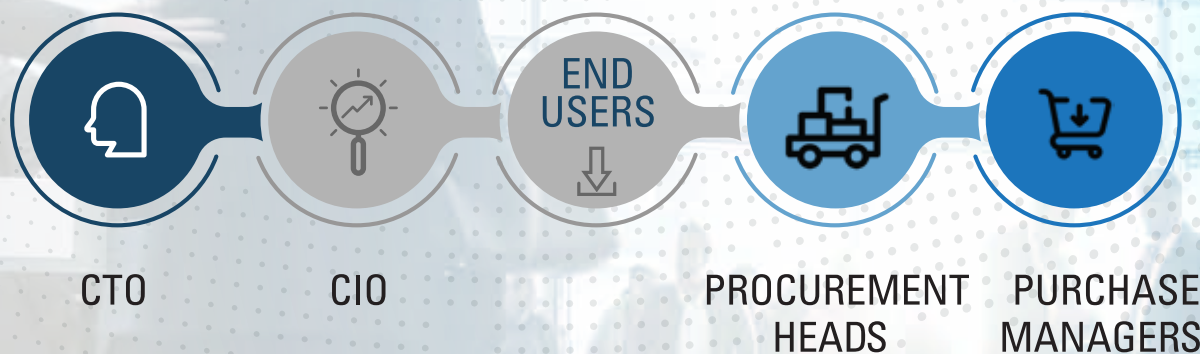
PROFESSIONALS



AV TRADE



END USERS



GOVERNMENT



ENTERPRISES

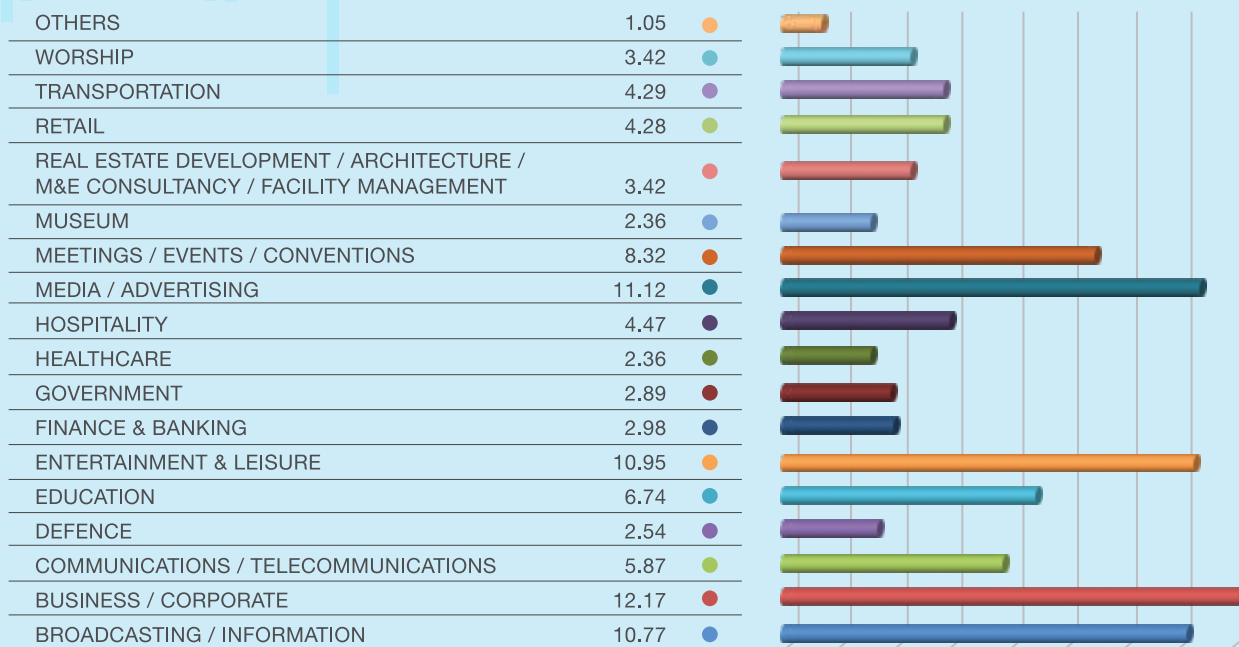


CONNECT
WITH THE
**FUTURE
OF AV
TECHNOLOGY**

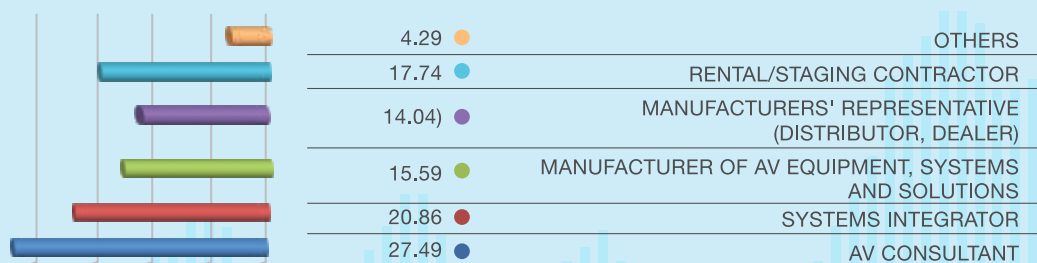
PARTICIPANTS ANALYSIS

Total footfall across three days of PALM & AV-ICNx 2019 reached a staggering 30,949 of which 23,241 accounted for unique visitors. Attendee demographics of AV-ICNx 2019 can be found in the pie charts below

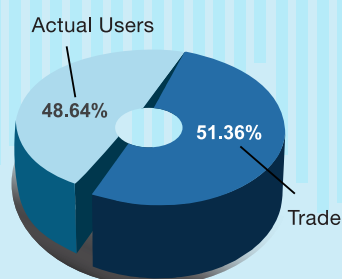
VISITORS BY INDUSTRY SEGMENT



VISITORS BY PROFESSION



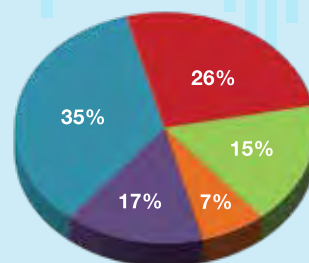
VISITOR ANALYSIS BUYERS & SELLERS



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 & solutions; Manufacturers' Representative (Distributor/ Dealer); Systems Integrators & AV Consultants

EXHIBITORS PRODUCT PROFILE 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

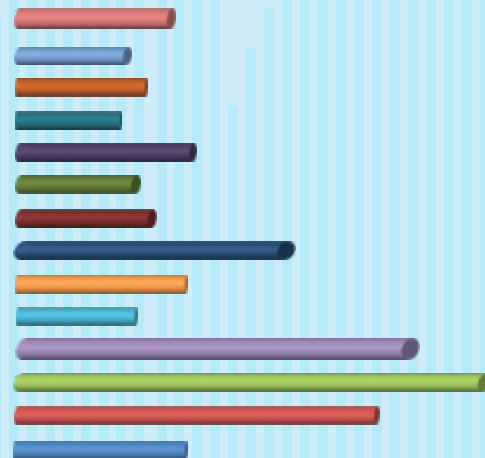
VISITORS BY SERVICE PROVIDED



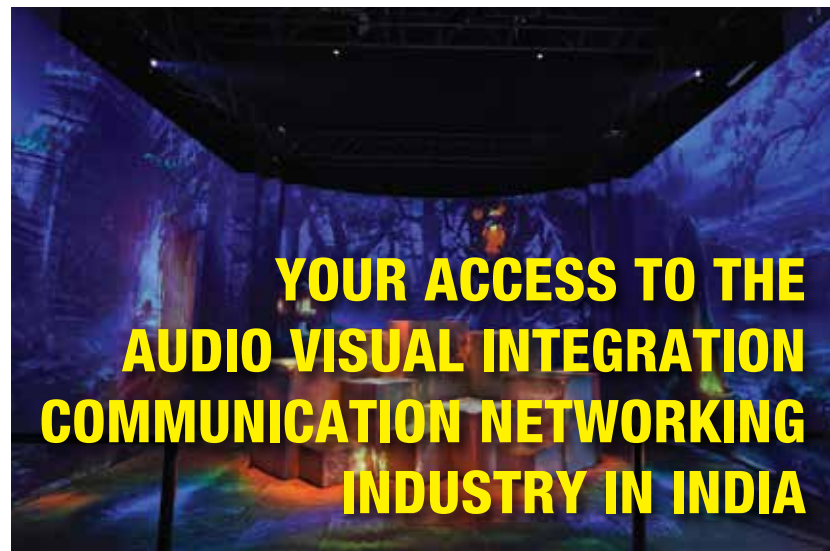
47.66	IT SYSTEMS DESIGN & INSTALLATION
25.96	MANUFACTURERS' REPRESENTATIVE (DISTRIBUTOR / DEALER)
25.53	IT MANUFACTURER
0.85	OTHERS

MAIN PRODUCT INTEREST

DIGITAL SIGNAGES	5.38	
SYSTEM INTEGRATORS	4.01	
IT	4.31	
BROADCAST	3.37	
PROJECTION	6.06	
EDUCATION	4.01	
CINEMAS	4.52	
DISPLAY & MONITORS	9.35	
NETWORKING	5.80	
SPACE DESIGN	4.05	
VIDEO	14.34	
AUDIO	16.56	
LIGHTING	12.55	
EXPERIENTIAL AV	5.68	







AV-ICN_x SUMMIT

Conference • Seminar • Workshop

YOUR GATEWAY TO BUSINESS INTELLIGENCE

A conference organised 'by the industry' 'for the industry' as an inclusive gathering to bring together key people who strive to bring change. AV Summit 2019 focused on technology and trend impacting the Indian AV industry. The Summit boasted of a stellar line up of ace speakers who are experts in their respective fields.

To submit technical papers and product presentations
contact:

Smita Rai

Project Head – Features & Marketing

Mobile: +91 98209 43398 | Email: srai@palmexpo.in





India, the second largest market in Asia for the Audiovisual and Systems Integration segment continues to excite the market.

Over the years, PALM has witnessed phenomenal growth in the number of Systems Integrators and AV consultants sourcing products and solutions for entertainment venues and home theatre projects.

In view of this important dynamics, AV-ICNx lead the charge with CAVS a three-day certification course. The course aimed at providing knowledgeable manpower, replacing the 'electrician' with a 'qualified integrator' and creating a talent with specific learning for AV integration.

2019 saw 40 registered delegates enter the world of "AV in the Digital Era" at CAVS with **Ranjit Singh - Principal Consultant for Workspace Technology and Experience at PTS Consulting Singapore.**

2020 WILL ONCE AGAIN OFFER AV INDUSTRY PROFESSIONALS AN OPPORTUNITY FOR PROFESSIONAL DEVELOPMENT AND CERTIFICATION



FOCUS ON GLOBAL TECHNOLOGICAL TRENDS

With the Education & Training Programme, AV-ICNx offers exhibitors a platform for education, training and professional development.

Participate as an exhibitor at AV-ICNx 2020 and avail of this fantastic opportunity to reinforce your products and technologies to a target audience of AV Consultants, Systems Integrators & Home Tech Integration professionals exploring the expo for solutions in Pro AV and high-end home cinema.

AV-ICN^x Technology is a bi-monthly magazine with focus on Audiovisual equipment, technology & solutions. The magazine will act as a bridge between the AV equipment manufacturers / distributors and the AV consultants, systems integrators and end- users. The magazine caters to Audiovisual industry in India and will reach out to readers engaged in all segments of AV – manufacturing, integration & installation, operations, and consulting. AV Magazine is well known for providing a local perspective on international

developments through insight industry professionals across the region.

The magazine provides responsible, expeditious and factual company business news, product & technology updates, features & interviews, market reports, industry analysis and more. The magazine addresses all segments of the AV industry with stories inclusive of AV integration domains, including auditoria, stadia, conference room class room, control room, digital signage and OTT broadcast studios.



EXHIBIT & SPONSORSHIP OPPORTUNITIES

Believe in the future and commit your participation and business growth.

Defining your participation in time means confirmation of the product you want launched and co-branding collateral with the show logo in time.

This also means incremental publicity and visitors to your booth. Through timely management of production, people management, budgeting, micro-communication to your customers and suppliers, you will ensure a chain reaction, whereby you have defined better, the emphasis of the expo delivery for your company, before you know it.

PARTICIPATION FEE

SPACE ONLY

INR 12,925 per sqm
USD 300 per sqm

SHELL SCHEME

INR 14,000 per sqm (ONE SIDE OPEN)
INR 14,500 per sqm (TWO SIDE OPEN)
INR 15,000 per sqm (THREE SIDE OPEN)
USD 325 per sqm (ONE SIDE OPEN)
USD 340 per sqm (TWO SIDE OPEN)
USD 350 per sqm (THREE SIDE OPEN)

FOR BOOTH BOOKING/ SPONSORSHIP/ ADVERTISEMENTS, CONTACT

RAMESH CHETWANI

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Email: rchetwani@av-icnx.com

CHARU RELHAN

Mobile: +91 981 977 8712
Email: charu.r@abec.asia

MEHUL JAIN

Mobile: +91 836 932 6802
Email: mehul.jain@abec.asia

ZEESHAN ALI PATEL

Mobile: +91 998 786 2312
Email: - zeeshan.p@abec.asia

DEEPAK TOSHNIWAL

Mobile: +91 982 176 2222
Email: - deepak.t@abec.asia

MARKETING OPPORTUNITIES

PR & MAINLINE ADVERTISING

A huge PR reach with an extensive coverage across media platforms and advertising in major News Papers across the country will help push the visibility and grow the goodwill of the Expo in turn help garner higher and better response from the audience.

DIGITAL MARKETING

With digital India gaining pace, AV-ICNx 2020 is ready to grow its presence with a far-reaching Digital Campaign having a targeted & specific audience reach with promotional activities across social media and digital mediums. Garnering higher reach and awareness about the expo through national and international affiliations.

SHOW INVITES

Special printed invites are sent to Industry associations and Market drivers. Along with Invitation cards being sent out to Exhibitors and Media Partners to invite their key customers, thus bringing quality trade visitors to the show.

SMS & WHATSAPP CAMPAIGNS

Reaching out to the audience and providing them with regular updates about the Expo is what we aim to achieve in turn helping our patrons not to miss the opportunity of generating the right business at AV-ICNx 2020

WITH THE AIM TO HELP YOUR BRAND REACH THE RIGHT AUDIENCE & MEET YOUR BUSINESS NEEDS EVEN BEFORE YOU REACH THE SHOW FLOOR.

AV-ICNx 2020 PUTS FORTH AN EXTENSIVE MARKETING OUTREACH THROUGH MULTIPLE MEDIUMS.

OUTDOOR CAMPAIGN

An extensive outdoor publicity campaign utilising innovative and high reach and visibility mediums will be initiated targeting the right audience through hoardings, bus back branding, retail store branding, POS branding would be among the few promotional mediums.

E-MAIL CAMPAIGN

Regular industry and show updates are the essence of growth. AV-ICNx Expo 2020 has initiated a far reaching e-mail campaign to keep our exhibitors and visitors updated about every aspect of the expo and the growing industry. Generating interest & registrations.

INDUSTRY MAGAZINES

AV-ICNx 2020 to reach out to the industry through all the major magazines, having tied up with them, an annual marketing campaign has been initiated with innovative and large use of the editorial and advertorial opportunities with the Industry magazines.

ASSOCIATION SUPPORT

AV-ICNx is all set to partner with leading Industry associations to help increase the growth of the industry and aid increase the knowledge and awareness about the various developments, by inviting the association members to participate at the exhibition as well as be a part of the knowledge sharing sessions.

SUPPORTING ASSOCIATIONS



MEDIA PARTNERS



For More Info: E: exhibit@av-icnx.com | M: +91 83693 26802



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CRESTRON MERCURY UI UPDATE DELIVERS BETTER USER EXPERIENCE

Crestron announced the release of a major user interface update for Crestron Mercury, the industry-leading tabletop meeting and collaboration solution. The new UI features a more modern-looking,

ship with all new Crestron Mercury units and is available for existing units via a free firmware upgrade.

"The updated UI builds on the years of success of Crestron Mercury with a sim-

easier for users to access what they need, with more information on the home page and call screens, including room schedule, status, and availability."

The firmware update is available now and will be added to the auto-update for Crestron Mercury on Oct. 28th, at which point it will be the default on all systems. Information on how to install the new UI experience on existing Crestron Mercury units is available via a Crestron Online Help article so technology managers can evaluate it prior to the auto-update.

Enhanced core functionality

Crestron Mercury now includes the latest AirMedia 2.0 wireless presentation UI, which provides automatic detection of the web browser and app installation for one-click wired or wireless connectivity and presentation in just seconds, plus support for Miracast connectivity to boost collaboration in any meeting space.

Other Crestron Mercury advancements include plug-and-play support of Crestron AirBoard for capture, display, and sharing of whiteboard content with anyone, anywhere; and support for Crestron Certified Drivers to enable control of any display.



Crestron Mercury now offers cleaner UI design and intuitive navigation; available as free firmware update for existing units

cleaner design that provides users with a simpler experience, including more intuitive navigation. The redesigned UI will

pler, more refined user experience," said **Joe Sarra**sin, Program Manager and Enterprise Solutions at Crestron. "It makes it

EXTRON SHIPS THE DMP 64 PLUS SERIES 6X4 PRODSP

Extron announced the immediate availability of the DMP 64 Plus series of compact Digital Matrix Processors, featuring six DSP input channels with AEC, in only a half rack space. With a flexible mix matrix, a USB audio interface, and 6x4 analog connectivity, the DMP 64 Plus provides the ability to easily connect and route signals to accommodate system requirements. The AT models can be powered

by PoE+ and provide 32x16 Dante connectivity for popular Dante microphone arrays and other Dante devices, while the V models include up to eight VoIP lines for collaboration applications. Featuring an ACP bus for audio control panels, an expansion port for bidirectional digital audio connection with a DTP CrossPoint or another DMP, eight audio file players, and configurable macros, the DMP 64 Plus

can be used in a wide variety of smaller systems.

"The smaller size of many collaboration spaces often means fewer inputs are needed while retaining key features like AEC and multiple control options", says **Casey Hall**, Vice President of Sales and Marketing. "The DMP 64 Plus series can be powered by PoE+ for installation simplicity and offers Dante and VoIP models to meet any connectivity need."

All six main DSP channels of the DMP 64 Plus offer FlexInput source selection to route any Dante input, expansion input, or one of the six mic/line inputs, to a main DSP channel. This enables the DMP 64 Plus to process audio from any source with the full range of DSP capabilities, including AEC.



Extron DMP 64 Plus Series 6x4 ProDSP

NEW GENELEC 4430 LOUDSPEAKER GIVES THE AV WORLD EXCEPTIONAL SOUND QUALITY OVER IP

Genelec has announced the availability of the new 4430 two-way active installation loudspeaker, the first model to incorporate the company's Smart IP technology, combining exceptional sound quality with single cable convenience.

The 4430 is a compact design that accepts both Dante and AES67 IP audio streams, and derives power via both PoE and PoE+ Power-over-Ethernet formats, with the 4430's proprietary internal power supply helping to deliver an impressive 104 dB of short term SPL, via two integral 50 W Class D amplification stages feeding the woofer and tweeter.

As well as receiving both power and audio-over-IP, the 4430's single rear panel CAT connector also allows access to Genelec's Smart IP Manager - a sophisticated downloadable software tool running on Windows 10 that allows installers to configure an almost unlimited number of rooms, zones, loudspeakers and audio channels, and includes device discovery, a versatile room equalisation tool set, system organisation and status monitoring. Additionally, APIs within the 4430 support the hooks to allow external control via third-party hardware, software or house automation.



Genelec 4430 loudspeaker

In terms of specification, the 4430 supports up to eight audio channels in a stream with sample rates of 32 - 96 kHz and 16 - 24 bit resolution. Streams can be managed by both Dante Controller and Dante Domain Manager software, as well as legacy balanced line analogue audio.

The 4430 delivers a frequency response of 45 Hz - 23 kHz (-6 dB) via a 5 inch woofer and 3/4 inch metal dome tweeter, and the 4430's compact, lightweight enclosure utilises Genelec's trademark Minimum Diffraction Enclosure and Directivity Control Waveguide technologies to ensure neutral, uncoloured sound both on and off axis.

Manufactured using certified sustainable methods, the enclosure itself is produced from recycled aluminium, is available in black, white or 120 custom RAL colours, and is compatible with Genelec's extensive range of mounting accessories to allow the 4430 to be floor, ceiling, wall or truss mounted.

Genelec have chosen to officially launch the 4430 at the spectacular new Finnish Music Hall of Fame in Helsinki - a unique and innovative museum and dining experience that already features over 120 of the new 4430 loudspeakers installed throughout the museum. Showcasing more than 200 Finnish artists and composers via the newest AV technology combined with Virtual and Augmented Reality solutions, the Music Hall of Fame will provide an unforgettable interactive, multidimensional experience for an estimated 100,000 visitors per year.

KRAMER ANNOUNCES ITZHAK BAMBAGI AS NEW CEO

Kramer Electronics announced the appointment of **Itzhak Bambagi** as Chief Executive Officer, effective immediately.

Bambagi has served in key executive roles at IBM and Digital/Compaq over the past 18 years and has also led IBM's IT transformational experience using cloud technologies and various digital workplace initiatives across EMEA.

The company aims to further drive its software and cloud-based initiatives to both support and adopt new business models, better suited to address the needs of the evolving AV industry under the leadership of Itzhak Bambagi who has a strong history in software and cloud developments, Bambagi will be instrumental in driving Kramer's ethos of advanced pro AV solutions utilizing tighter integration,

software, and cloud driven functionality. He explains: "Bringing software and cloud components further into the pro AV arena is the next step. By allowing remote support and management, we can bring standard uniformity to multisite installations, wherever they are in the world. Hassle-free solutions and an outstanding user experience are key and my IBM experience will assist in delivering technology that 'behaves' in ways that are wholly familiar to – and expected



Itzhak Bambagi, Chief Executive Officer, Kramer

by – IT departments."

On announcing the news, Dr. Joseph Kramer, Founder, President and Chairman of Kramer, said: "We are incredibly excited to share this fantastic appointment. Itzhak's decades of experience in sales, service and operational management paired with his deep understanding of advanced networking and cloud technology will be invaluable assets

as Kramer meets the continuing challenges of the converging pro AV and IT industries."

GENERATION AV AND MARTIN AUDIO ADD SANAK PANDIT TO TEAM

Start-up Generation AV, which represents Martin Audio in the APAC countries, has announced the arrival of the experienced **Sanak Pandit**, as Applications Engineer.

Based in Bangalore, India, Sanak has been working in audio since he was 14, having completed his studies in the Bangalore School of Audio under the training of Vishnu Pandit, one of the most respected technical experts in the Touring & Rental market in India.

Trained and certified in most of the industry leading advanced networking platforms, in recent years Sanak has led many training courses from the Basics of Audio through to System Design, Measurement and Optimisation for many rental compa-



Sanak Pandit, Applications Engineer, Generation AV

nies and engineers in India.

Said Generation AV founder David McKinney, "I am very excited to have Sanak in the team; he has the technical abilities to support all the brands in Generation AV and I believe will be a great asset to our business in Asia. With his strong background in the touring market he is able to hit the ground running."

And Martin Audio MD, Dom Harter, added, "Following the appointment of Generation AV, it is reassuring to know that Martin Audio sales support in the APAC territories is in such safe hands with the appointment of Sanak. This is a developing region for us and it is vital that our customers know they have such an advanced level of on-the-ground backup."

SEMTECH LAUNCHES BLUERIVER AVP CHIPSET SERIES

NEW AVP CHIPSET DRAMATICALLY REDUCES COST AND POWER, AND OFFERS TRUE BIDIRECTIONAL HDMI TRANSPORT OVER IP IN A SINGLE CHIP

Semtech Corporation announced its new BlueRiver audio visual processor (AVP) chipset. The BlueRiver AVP chipset provides all the features, functions and benefits of Semtech's existing NT1000 and NT2000 FPGA-based offerings (i.e., matrix-switch like performance over IP, under 0.1 millisecond latency, 4K60 uncompressed image quality, and common API), with the key new benefits of system cost reduction, significant power reduction, AV transceiver functionality, and fully integrated USB-HID interface.

The BlueRiver AVP series is integral to the growth of the SDVoE ecosystem in a wide range of market verticals and applications, such as large venue displays, command and control monitoring, medical, esports, leisure and hospitality, retail, and residential AV.

"The new BlueRiver AVP chipset enables a new generation of lower cost peripherals and integration directly into end-products, which should drive significant growth of SDVoE-enabled products," said **Don Shaver**, Vice President of Video



Semtech's new BlueRiver AVP Chipset series NT1000 and NT2000

Products for Semtech's Signal Integrity Products Group.

The BlueRiver AV Processor (AVP) chipset includes three devices: the entry level AVP1000 for AV over IP and matrix switch replacement, the AVP2000 which adds a video processing engine and fiber connectivity, and the AVP2000T with all the features of the AVP2000 plus bidirectional HDMI capability. New to the BlueRiver product family, the AVP2000T provides bidirectional HDMI connectivity in a single chip, enabling AV traffic to be sent simul-

taneously in both directions over a single optical fiber or copper category cable.

The chipset lowers system cost by reducing the number of devices required, and removing the need to use costly FPGA devices. In addition, the chipset consumes only 2.6W with all features operational, whereas FPGA-based solutions are typically around two to three times higher, which is a significant power savings. Additionally, all AVP products have a fully integrated USB-HID interface, uniquely designed for KVM applications.



AV-ICNx

EXPO2020

DEVELOPING INDIAN AV

CONNECT TO
INDIA'S
EXPLODING
AV MARKETS

28 29 30 MAY 2020

Bombay Exhibition Centre
Mumbai, India

EXPAND YOUR HORIZON AND CONNECT WITH INDUSTRY LEADERS AT THE 2nd AV-ICNx EXPO

Showcase technology segments Audio Technologies, Video Projection, Display & Monitors, Digital Signage, Large Format Display, Interactive Display, Digital Cinema, Home Cinema, Systems Integration, Signal Management & Processing, Communication & Collaboration, IP and Network Distribution, Command & Control

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**EDUCATION
& TRAINING**

AV
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WALK OF FAME

AV
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DEMO**

3D IMMERSIVE
PROJECTION
& MAPPING



For Participation, contact:
Ramesh Chetwani
+91 916 744 7440 | rchetwani@palmexpo.in

Concurrent with

 **palmexpo** 2020
record ► play ► perform

Highlights of the Expo

www.av-icnx.com

EVENT ORGANISED BY:
ABEC 

in f t  

BENQ LAUNCHES THE NEW EYE-CARE MONITOR GW2480T

BenQ announced the release of the GW2480T, a 24-inch comprehensive eye-care monitor suitable for middle school students in digital learning with height adjustment feature. It has been developed keeping in mind the fact that small displays of laptops and tablets might affect students' vision and bone development. Complementing BenQ exclusive Eye-Care Technology with Low Blue Light

of young children with short-sightedness is increasing. This makes parents pay more attention to their children's eyesight. BenQ has been devoted to developing eye-care technology for many years, and believes that the application of technology can help students reduce the risk of potentially developing myopia or other vision problems," said Rajeev Singh, Manag-



BenQ's GW2480T All-Round Eye-Care Monitor for Students



Eye-care technology with ergonomic design offers an all-round solution for eye health

and Flicker-Free performance for extended viewing comfort, industry-leading Brightness Intelligence Technology delivers exquisite details in any ambient lighting environment. With the ideal combination of LED and IPS technologies, GW2480T delivers a new level of visual enjoyment with truly authentic colors, deeper blacks, higher contrast, and sharper details.

"All of us are aware of the changes that technology can bring to children's learning. Though laptops and tablets are convenient, evidence shows that the number

ing Director of BenQ India .

GW2480T All-Round Eye-Care Monitor for Students

As digital learning has become an inevitable trend, younger students tend to use laptops or tablets for coding or programming courses. Small displays might affect students' vision and bone development in the long term due to short viewing distance and improper sitting posture . GW2480T's eye-care technology with ergonomic design provides a full range of vision care solutions. The 24-inch screen

aligns with an optimal viewing distance of 60~70 cm, along with the height adjustment function with an extensive range of height, tilt, pivot, and swivel monitor adjustments, all of which ensure that students grow and learn at the proper viewing distance and with the correct sitting posture.

Exclusive Brightness Intelligence Technology (B.I. Tech.)

The GW2480T is equipped with BenQ's exclusive Brightness Intelligence Technology (B.I. Tech.). The built-in ambient light sensor continually detects the brightness levels in the environment, and automatically adjusts the brightness of the screen to deliver the most comfortable viewing experience. With BenQ's all-round eye-care monitor and exclusive B.I. Tech., students can concentrate on their studies and use the screen for longer periods of time for better digital learning experiences.

In Addition, Flicker-Free Technology, removes screen flicker and reduces eye fatigue by decreasing the contraction in the ciliary muscles of the eyes. Low Blue Light Technology effectively filters out harmful blue light that suppresses melatonin for both good sleep quality and eye health. The Color Weakness Mode gives students a better perception of natural color by offering filters for red color deficiency (or protanomaly) and green color deficiency (deutanomaly).

To book your AD for the magazine or the upcoming Newsletter drop an email to srai@av-icnx.com | cparasrampuriah@av-icnx.com

HOME CINEMA

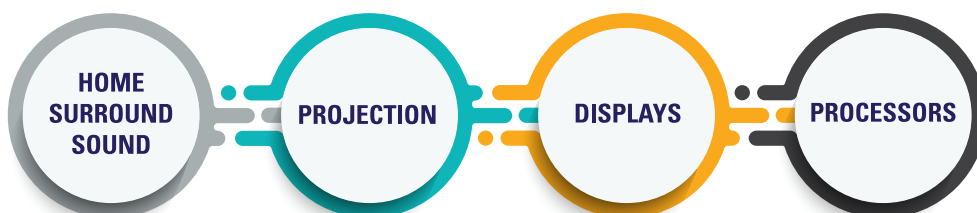
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Over 20 years, PALM has been the sourcing expo for speakers, with the world's leading audio brands present in strength. The world's largest bank of educated engineers, leading AV consultants and home tech professionals delivering home cinema consultancy and integration, having influence over purchasing decisions is the audience at AV-ICNx 2020

AV-ICNx OFFERS EXHIBITORS AN OPPORTUNITY TO HIGHLIGHT A RANGE OF THE WORLD'S FINEST TECHNOLOGIES FOR HIGH-END HOME CINEMA. THIS SEGMENT FOCUSES ON HIGH-END



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MACKIE LAUNCHES ALL-NEW PROFXV3 SERIES

Mackie announced the complete redesign of their most popular analog mixer series, ProFXv3 Professional Effects Mixers with USB. Mackie has taken everything customers love about the ProFX Series and cranked it up to 11.

Now with Mackie's Onyx mic preamps, GigFX Effects Engine, 2x4 24-Bit / 192kHz USB recording, and a new modern design. Not only are these great for live sound in clubs, bars, and venues, they are the perfect choice for home studios, content creators, and live streaming. The ProFXv3 Series is available in the 6-Channel ProFX6v3, 10-Channel ProFX10v3, 12-Channel ProFX12v3, 16-Channel ProFX16v3, 22-Channel ProFX22v3, and 30-Channel ProFX30v3. Mackie's new partnership with Avid gives ProFXv3 users an incredible benefit and value. Now included with the purchase of any ProFXv3 model is Pro



Mackie's all-new ProFXv3 Series

Tools | First, plus the exclusive Mackie Musician Collection featuring 23 Avid plug-ins. In addition, users will also get the multi-award-winning Waveform OEM DAW software with their DAW Essentials Collection of 16 plug-ins. The complete

package offers an incredible number of powerful creative and mixing tools to add to any user's plug-in library. In addition to ProFXv3, many other Mackie products will now be including Pro Tools | First and Waveform bundles.

ATEN INTRODUCES NEW SWITCHES FOR PROFESSIONAL PRESENTATIONS

ATEN International introduced two new models of presentation switches, the VP1420 4 x 2 True 4K Presentation Matrix Switch, and the VP1421 4 x 2 True 4K Presentation Matrix Switch with Scaling, DSP, and HDBaseT-Lite, enabling users to enhance the efficiency of their professional presentations. The ATEN VP14 series is comprised of multi-in-one presentation switches that integrate a video matrix, True 4K scaler, audio processor, and analog-to-digital converter functions into one compact device. Moreover, the VP1421 has additional support for one HDBaseT input/output. With four analog/digital inputs, the VP14 series is designed to boost the impact of any professional presentation in small to medium-sized meeting rooms and educational spaces, such as huddle rooms, classrooms, training rooms, or any other presentation environments.

Innovative features of the ATEN VP14:

- True 4K, HDR Visual Clarity – Supports resolutions up to 4096 x 2160 @ 60Hz (4:4:4) with HDR to deliver vivid content in every presentation.



ATEN VP1420 4 x 2 True and the VP1421 4 x 2 4K Presentation Matrix Switch

- Smooth AV Switching Scaled to Perfection – Connect up to 4 sources (VP1420: 3 HDMI, 1 VGA; VP1421: 1 HDBaseT, 2 HDMI, 1 VGA), smoothly switch between them and display contents scaled perfectly to True 4K and 1080p simultaneously.
- Flexible Audio Embedding / De-Embedding – Supports stereo audio embedding and HDMI audio de-embedding to different audio outputs to ease adaptation to your preferred audio setup. The VP1421 also support HDMI/HDBaseT audio de-embedding.
- Versatile Control, Streamlined Operations – Control via front-panel pushbuttons, IR remote, web-based GUI and any control interface via RS-232, Ethernet, and Contact Closure to streamline your operations.
- HDBaseT Extended Transmission over One Cable – Simplifies cabling and transmits AV, power, and bi-directional RS-232 and IR control signals up to 140m via Cat 6/6a or ATEN 2L-2910 Cat 6 cables (applying both HDBaseT input and output ports).

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BLACKWIRE DESIGNS ADDS FOCAL'S CUSTOM INTEGRATION COLLECTION

FROM ENTRY LEVEL TO REFERENCE LEVEL, SPEAKERS DISCRETELY DELIVER PRISTINE AUDIO FOR HOME THEATER, STEREO, AND DISTRIBUTED SYSTEMS OF ANY SIZE

BlackWire Designs announced that the company has bolstered its loudspeaker lineup with the addition of Focal's Custom Integration Collection. Consisting of the 100 Series, 300 Series, and Electra lines, Focal's in-wall, in-ceiling, and outdoor speakers and subwoofers discretely deliver unrivaled audio quality for home theater, stereo, and distributed audio systems of any size.

"Focal has been a world leader in high-fidelity solutions for more than 40 years, and we couldn't be more excited to add their Custom Integration Collection to our line card," said **Kevin Luther**, owner of BlackWire Designs. "For our customers, not only do the company's loudspeakers feature innovative technologies that bring a new dimension of sound to any room — while remaining invisible for a clean look — but they also offer a wide range of solutions to meet the needs of any home."



Blackwire designs adds Focal's Custom Integration Collection to its loudspeaker lineup

For small- to medium-sized rooms, Focal's entry-level 100 Series speakers feature Polyglass cone drivers and compact aluminum inverted dome tweeters to improve sound dispersion for an extremely precise soundstage. The series' in-ceiling products are further equipped with a crossover feature that improves off-axis listening and significantly reduces the "shower effect." In addition to two-way, two-way coaxial, and two-way LCR

speakers, the 100 Series includes IP66-certified outdoor speakers and an in-wall passive subwoofer with a matching amplifier and a depth of only 3.375 inches.

Focal's mid-range 300 Series loudspeakers are ideal for medium- to large-sized rooms. Exclusive technologies such as Flax cones ensure excellent dynamics, bass control, and damping properties for a natural sound, while aluminum/magnesium inverted dome tweeters deliver remarkable linearity of

the frequency response curve and perfect neutrality. The 300 Series includes two-way, two-way coaxial, three-way, and three-way LCR loudspeakers, while an innovative toolless quick install system saves integrators time in the field.

At the high end of Focal's offering is the Electra Series of reference-level, in-wall two-way and three-way loudspeakers, which deliver the absolute finest sound quality for spaces of any size.

TASCAM EXPANDS BLU-RAY LINE WITH BD-MP1 BLU-RAY PLAYER

TASCAM introduced the new BD-MP1 professional-grade Blu-ray player. The BD-MP1 replaces the rugged and reliable BD-01U, incorporating dynamic features such as Power-on Play, and protective user control options. The BD-MP1 is the perfect choice for a wide range of commercial installations, including public, educational and commercial facilities, theaters, amusement and entertainment businesses, to name a few.

The TASCAM BD-MP1 is a professional-grade Blu-ray player for commercial installations that extends the legacy of TASCAM's BD-01U Blu-ray player. The BD-MP1 expands on the BD-01U's legacy and feature-set, adding powerful remote control, performance features and user interface functionality, while accepting all popular media and file formats via multiple input slots. The compact, single rack

space BD-MP1 saves space by eliminating the need for discrete audio/video playback devices in an installed rack, accepting a broad range of media and file

formats via three versatile input slots — disc tray (Blu-ray/DVD/CD), USB flash or SD card.

In addition to its versatile input options, the BD-MP1 supports all popular media and file formats include Blue-ray (BD-ROM, BD-R, BD-RE), DVD (DVD-ROM, DVD-R, DVD-RW), CD (CD-DA, CD-R), Video (MPEG1, MPEG2, MPEG4 AVC, VC-1, AVCHD, WMV), Image (JPEG, GIF, PNG)



TASCAM Expands Professional Blu-ray Line with BD-MP1 Professional-Grade Blu-ray Player

and Audio (LPCM, MP3, AAC, WMA).

Protected operation from accidental settings changes or non-authorized use is provided via the Panel Lock button on the front panel. IR and tray lock functions prevent accidental or user-error operation or alteration of pre-set controls in commercial installations, helping ensure consistent and reliable performance in any installation.

BARCO ANNOUNCES NEXXIS PARTNERSHIPS IN APAC

Barco announced its partnership with six new partners across the Asia-Pacific region to deliver best-in-class digital experiences in Healthcare for its next-gen operating room video integration solution Nexxis. Barco leverages Nexxis, its video-over-IP platform for digital integration in the operating room to deliver precise imagery, efficient workflow, and maximise flexibility across the increasingly complex Operating Room (OR) procedures globally.

The partners include SigmaJones AV in India, Heytech in Thailand, GET Medical in Taiwan, MedEqual in Philippines, Cetech in Vietnam and Rutledge AV, A Diversified Company in Australia. With these partnerships, Barco aims to expand its presence in the surgical sector across the APAC region and deliver cutting-edge surgical displays to digital operating rooms thereby increasing awareness for the solutions available to facilitate better and efficient healthcare.

Elaborating on the partnership, **Rachel Coxon**, Vice President of Healthcare APAC, Barco said, "We at Barco believe that efficient and future-ready healthcare should be accessible across as many avenues as possible and these partnerships bear testament to that. Nexxis can dramatically improve the scope and efficiency of



Barco partners with Nexxis for its next-gen operating room video integration solution

an operating room and allows OR staff to concentrate on patient care instead of dealing with technical issues. We are looking forward to our partners taking the product to ORs across their regions. The solution avoids latency and artefacts, allows remote collaboration and efficient workflow while leaving room for organisational preferences."

To ensure that the solution is efficiently integrated into the healthcare system of its beneficiaries, the partners underwent intensive training this week in Singapore and Melbourne. Commenting on the sessions, **Pieter Peene**, Program Manager,

Nexxis, Barco said, "When it concerns a solution as technologically advanced and diverse as Nexxis, undergoing training further equips our partners with product segmentation, technical troubleshooting, service and other technical aspects."

Nexxis provides a frame rate of 60Hz to present fluid video from HD up to 4K/UHD. The high quality and accuracy of the images help reduce eye fatigue during long surgical procedures. The solution uses the best available color reproduction methods like 4:4:4 chroma and has automatic color gamut selection to match the camera source and configure the display.

CLEARONE RELEASES NEW WALL-MOUNT BLUETOOTH

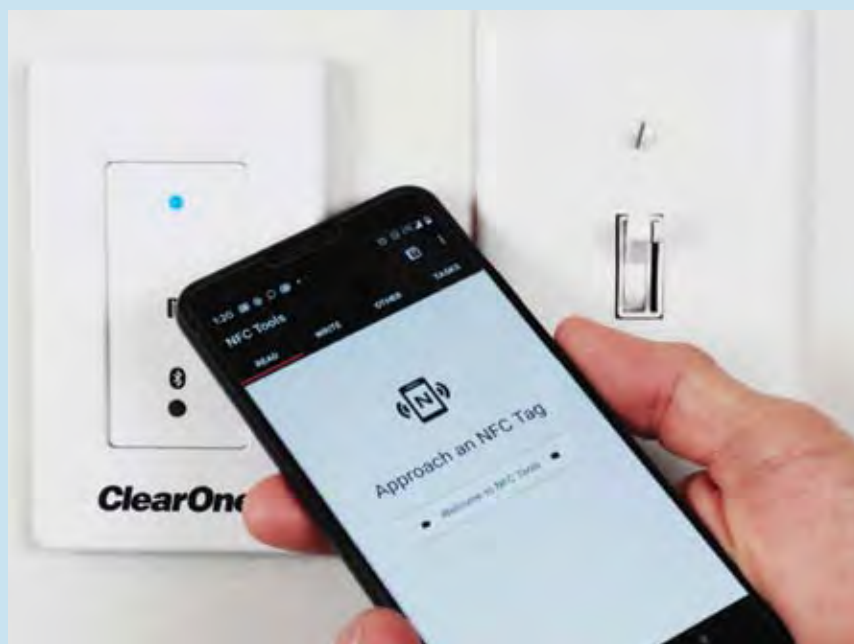
ClearOne announced the availability of its wall-mount Bluetooth Expander.

This new module enables Bluetooth audio conferencing and streaming from mobile devices to ClearOne's CONVERGE Pro 2 and Huddle Audio DSPs.

NFC Tap-to-Pair allows fast and simple connectivity with mobile devices, and the Bluetooth pair name can be customized.

P-Link makes wiring easy on both CONVERGE Pro 2 and Huddle systems, and the new Bluetooth Expander features wall-mount design for convenient room access (single-gang electrical box).

The module's Bluetooth 3.0 compliant interface supports industry standard profiles for audio, and it has a great range of up to 150 feet (45 meters).



ClearOne's wall-mount Bluetooth Expander



ATEN PSS PP v3.0 Secure KVM Switch (CS1144DP) is specifically designed to meet the stringent security requirement of secure defense and intelligence installations. ATEN PSS PP

v3.0 Secure KVM Switch (CS1144DP) is compliant with PSS PP v3.0 (Protection Profile for Peripheral Sharing Switch, Version 3.0) standard certified by the National Information Assurance Partnership (NIAP). It provides isolation between computer sources and peripherals while sharing a single keyboard, mouse, monitor, speaker set, and Common Access Card (CAC) reader between connected computers of various security classifications. Compliance with PSS PP v3.0 ensures peripheral sharing capabilities provide maximum user data security when switching port focus, preventing unauthorized data flows or leakage between connected sources. Key protections include isolation and unidirectional data flow, restricted peripheral connectivity and filtering, user data protection, configurable device filtering and management, and always-on tamper-proof design, keeping sensitive assets isolated and providing advanced security and a user friendly design for instantly secure deployment.

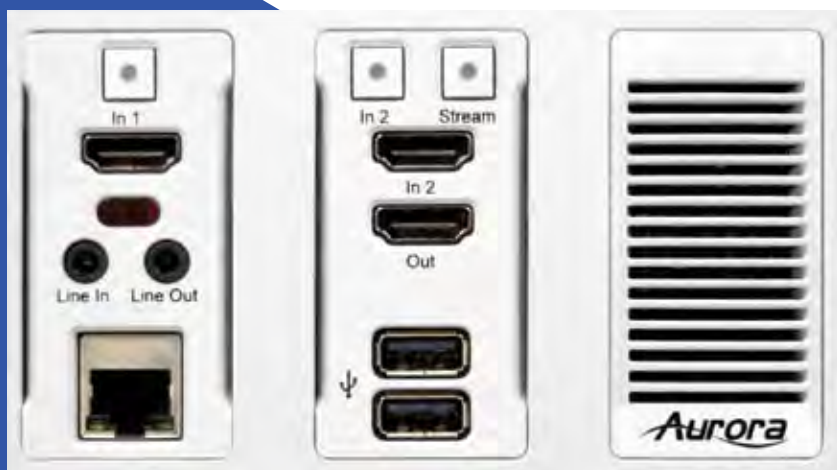
With multi-layered security, ATEN PSS PP v3.0 Secure KVM Switch (CS1144DP) ensures high-level desktop security and data safekeeping for applications such as government agencies, finance, and other organizations that often handle sensitive or confidential data on separate networks.



IPX-TC3-WP 4K2K IP AV distribution wall plate built on Aurora's IPBaseTTM technology – which synergizes various IP and AV technologies to work together as one – the three-gang in-wall transceiver

is the industry's first 4K2K IP wall plate to feature zero compression and zero latency. To simplify AV room combining in business centers, hospitality settings, and medical and government facilities, the IPX-TCW3 can be set up as either a transmitter (input) or a receiver (output). When configured as a transmitter, the auto-detectable HDMI inputs allow for two sources to be selected from a single wall plate over the network, and the HDMI output becomes a local loop-through for the selected source. When configured as a receiver, the IPX-TC3-WP serves as an output HDMI plate installed behind a display for easy wiring, and its two HDMI inputs become local source inputs for in-room viewing. The wall plate features built-in source switching for seamless operation; analog and digital

audio de-embedding with flexible audio breakaway switching; as well as RS-232, IR and Ethernet Control at any transceiver location. The USB 2.0 option is also flexible, working as a KVM and/or a high-speed data transfer (480Mbps) for memory sticks. Each IPX USB feature can also be set as a host or a device.



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ORBIS PRODUCT FAMILY

This digital wired conference system by beyerdynamic combines demanding design and discreet integration in high-quality furnishing and becomes an inherent part of your success. It is developed in a way so as to concentrate on the operational reliability and user convenience of the system, without having to neglect technical refinements. Conference systems by beyerdynamic stand for the best audio quality and highest quality standards. Modern design, ease-of-use, operational reliability and high-quality materials are now what make this new conference system stand out. Orbis is connected using standard Cat5 cables that are available worldwide and allow for cost-effective installation. The practical cabling options allow the cables to be laid from below or behind.



BIAMP

Parlé TCM-X Ceiling Microphone

The Parlé TCM-X is an AVB low-profile ceiling microphone for use in Tesira systems. Comprising a network box and a ceiling microphone, each microphone includes Beamtracking technology

with four 90-degree zones, providing full 360-degree coverage of the meeting space. The TCM-X microphone delivers the same level of performance as other Beamtracking microphones in a sleek, unobtrusive



design that mounts to the ceiling. The TCM-X actively tracks and mixes conversations from around the table, allowing far-end participants to experience the conversation as they would a face-to-face meeting. Each network box has its own digital signal processing module and comes with an additional RJ-45 connector to add an optional TCM-XEX to the network box. A maximum of two microphones are permitted per network box (one TCM-X or TCM-XA with TCM-XEX). The TCM-X is well suited for a variety of room types and sizes with 10' ceilings or lower that require high-quality audio solutions and low profile or unobtrusive microphones.



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Conference registrations open on:

13th January, 2020

<http://av-icnx/summitreg>

CRESTRON

RMC3 3-SERIES

The Crestron RMC3 is a compact and cost-effective 3-Series Control System designed to provide control and monitoring for a single display device, a small AV system, lighting and shading, climate control, security, energy management, and many other specialized applications. Its tiny form factor allows it to be placed just about anywhere with the option to attach it to a flat surface or DIN rail using the mounting bracket provided. It can fit easily behind a video display or above a projector, and provides enough control ports to control the display device along with a screen or lift. Cresnet and Ethernet connectivity provides full support for the full line of Crestron touch screens, keypads, dimmers, shades, thermostats, and other peripherals. Featuring the 3-Series control engine, the RMC3 provides a robust, feature-packed controller that's ideal for mass deployment across college campuses, corporate office buildings, museums, MDUs, hotels, and convention centers.



EXTRON

HDMI Pro Series cables



Extron HDMI Pro Series cables are designed for applications that require high performance transmission of HDMI digital video and audio signals. Depending on the length of the cable, HDMI Pro Series cables conform to Premium High Speed, High Speed, or Standard HDMI Cable performance standards. Premium High Speed and High Speed HDMI Cables support 4K resolutions. Standard HDMI Cables support 1080p or 720p resolutions. Cables are constructed with 22 AWG copper wire and gold plated contacts. Extron HDMI Pro cables are available in lengths from 25 feet to 200 feet (7.6 meters to 60 meters).

Premium High Speed HDMI Cable: The 25 foot and 35 foot (7.6 meter and 10.6 meter) cables conform to Premium High Speed HDMI Cable specifications. The Premium High Speed HDMI cables support resolutions up to 4K @ 60 Hz (4096x2160), 18 Gbps bandwidth, and High Dynamic Range (HDR).

High Speed HDMI Cable: The 50 foot and 75 foot (15.2 meter and 22.8 meter) cables conform to High Speed HDMI Cable specifications and support resolutions up to 4K @ 30 Hz (4096x2160) when used with the Extron HD 4K 101 Plus cable equalizer.

Standard HDMI Cable: The 100 foot, 125 foot, and 150 foot (30.4 meter, 38 meter, and 45.7 meter) cables exceed the Standard HDMI Cable specifications and support resolutions up to 1080p.

HOVERCAM

PILOT 5

Hovercam Pilot 5 comes with a Windows PC with 21" HD touchscreen. The Pilot 5 has a 13MP document camera with noise reduction microphone to ensure minimum disturbance from external sources. The Pilot 5's HoverCast wireless HDMI, beams computer image, annotations and audio to Interactive Flat Panel, projector or TV making it easier to use. Its Bidirectional wireless USB touch technology mirrors annotations from interactive display to Pilot. The Hovercam Pilot 5 makes Mirroring from Mac, iOS, Android devices, Chrome-books and more, easier. The Hovercam Pilot 5 comes with a Battery pack Plug-in to charge at night, unplug and use all day which makes it easier and very convenient to teach from anywhere in the classroom with no power cord to worry about.



MAXHUB

MAXHUB X3 Ultimate series

XHUB X3 conference flat panel is an innovative efficient office equipment, with writing, presentation, and collaboration functions. Through breaking the barriers of conventional meetings and cooperation, MAXHUB X3 makes your work efficient and collaborative by wirelessly connecting multi-terminals and multi-person. The Ultimate series have up to 88.9% screen-to-body ratio 4K ultra large screen. Highly integrated machine has only 19mm thickness, exquisite appearance, and stunning immersive sharp images, making it a perfect match for your superior offices. P-cap and EMR combined touch technology gives an enjoyable and delightful writing experience. Intelligent and user-friendly graphic and table assistant design satisfies efficient writing needs. It brings convenient connection and presentation. It enables sharing photos and documents on the big screen wirelessly through PC, smartphones, and tablets. Control the big screen at your seat with aforementioned mobile devices.



NEC U321HG

The U321HG is particularly suited for classrooms and small to medium sized meeting rooms. With 1080p resolution and 10,000:1 contrast, the U321HG delivers perfect image quality for very detailed content, as well as high quality movies, including 3D content from Blu-ray players, thanks to its HDMI 3D support.

This ultrashort throw projector returns free space to small to medium sized class-

rooms and meeting rooms, projecting onto screen sizes between 85-100" without creating shadow or glare.

Users of demanding applications in higher education, such as design and engineering applications, will appreciate the 1080p resolution for the high level of detail achieved.

Interactivity can be added retrospectively to this model with a multi-pen and/or multi-touch option.

It also has an optional multi-pen and touch Interactivity with auto-calibration on any kind of surface.

Future proof connectivity numerous analog and digital connection terminals, including MHL support and network capability.



VIVITEK Vivitek NovoConnect Solution



Cable-free presenting eliminates the hassle and lets you get going in seconds. Cross-platform screen mirroring lets everyone share from any device. Connect quickly using QR code on mobile devices with NovoPresenter App. Optional USB LauncherPlus for direct connectivity with zero impact on your network. Enhance your meeting by sharing up to 4 screens simultaneously, while 64 participants can be connected to switch instantly. Wirelessly share files, meeting minutes and snapshots with all participants. Comment and collaborate in real time with digital annotation and highlighting. Moderation functions keep you in control of the agenda. Dual-band WiFi and 2T2R connectivity ensure high standard of quality and performance. Privacy and security are ensured thanks to PIN-protected guest access. Invite guests or team members to instantly connect to the NovoConnect unit from their laptops using Launchers. A mix of all three models can be used to accommodate different guest and internal user needs in the meeting room. No matter the setting, Launchers work with all NovoConnect solutions.

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GOVERNMENT OPENS BIDS FOR INTEGRATION AND INSTALLATION PROJECTS ACROSS INDIA

MUNICIPAL CORPORATION OF DELHI'S AUDIO INSTALLATION PROJECT VALUED AT 4.73 LAKHS

ABOUT: Supply, Installation, Testing And Commissioning Of Pa And Audio System For Indra Park Jawala Nagar In Ward No. 30E Under South Zone

TENDER VALUE: INR 4.73 Lakhs /-

EMD: INR 9450.00 /-

LOCATION: Delhi

To know more about the project:
<http://mcdetenders.com/common/home.asp>

LIGHT & SOUND INSTALLATION FOR HIMACHAL TOURISM OF TENDER VALUED AT RS 17.86 LAKHS

ABOUT: Design And Installation Of Light , Sound And Multimedia Show Having Wow Effect At Town Square, Mall Road, Shimla, And Himachal Pradesh Including Operation And Maintenance For Five Years

TENDER VALUE: INR 17.86 Lakhs /-

EMD: INR 500000.00 /-

LOCATION: Shimla

To know more about the project:
<https://www.hptenders.gov.in/nicgep/app>

INSTALLATION FOR PUBLIC WORKS DEPARTMENT VALUED AT RS 22.14 LAKHS

ABOUT: Providing, Installation, Testing And Commissioning Of Conference Mic System Along With All Accessories At Secretariat Conference Hall In Lieu Of The Work Annual Repair And Maintenance Of Computers Its Peripherals And Lan And Its Accessories At Ces Office

TENDER VALUE: INR 22.14 Lakhs /-

EMD: INR 44298.00 /-

LOCATION: Andaman And Nicobar Islands

To know more about the project:
<http://www.tenders.tn.gov.in>

RAJASTHAN ZILLA PARISHAD'S SOUND SYSTEM PROJECT VALUED AT 3.08 CRORES

ABOUT: Supply Of Sound System For Meeting Hall

TENDER VALUE: INR 3.08 Crore /-

EMD: INR 1.96 Lakhs /-

LOCATION: Rajasthan

To know more about the project:
<http://www.tenders.tn.gov.in>

NATIONAL THERMAL POWER CORPORATION'S AUDIO INSTALLATION TENDER VALUED AT 59.83 LAKHS

ABOUT: Supply Installation And Commissioning Of Audio Video System For Safety Supply Installation And Commissioning Of Audio Video System For Safetyacademy Unchahar

TENDER VALUE: INR 59.83 Lakhs /-

EMD: INR 100000.00 /-

LOCATION: Uttar Pradesh

To find our more about the project:
<http://www.tenders.tn.gov.in>

CENTRAL PUBLIC WORKS DEPARTMENT'S MAINTENANCE PROJECT VALUED AT 16.38 LAKHS

ABOUT: Repair Maintenance Of Projection System Conference System And Sound Reinforcement Systems At Rashtrapati Bhavan New Delhi Sh Annual Comprehensive Maintenance And Operation Of Sound Reinforcement System

TENDER VALUE: INR 16.38 Lakhs /-

EMD: INR 32760.00 /-

LOCATION: Delhi

To know more about the project:
www.tenderwizard.com/CPWD

NAYA RAIPUR DEVELOPMENT AUTHORITY'S AV TENDER VALUED AT 2.35 CRORES

ABOUT: Tender For Designing, Supplying, Installation, Integration, Testing And Commissioning Of Audio Visual, Conferencing & Control System, For Conference Hall And Allied Works At Mantralaya

TENDER VALUE: INR 2.35 Crore /-

EMD: INR 235000.00 /-

LOCATION: Chhattisgarh

To find out more about the project:
<http://www.tenders.tn.gov.in>

KARNATAKA UNIVERSITY OF AGRICULTURAL SCIENCES' AV PROJECT VALUED AT 9.64 LAKHS

ABOUT: Providing Lcd Projector, Motorized Screen, Audio System And Ups To Meeting And Lecture Halls At Bsh College Building (North Block).

TENDER VALUE: INR 9.64 Lakhs /-

EMD: INR 24100.00 /-

LOCATION: Karnataka

To find our more about the project:
<https://eproc.karnataka.gov.in>

ORISSA PUBLIC WORKS DEPARTMENT'S AV RENOVATION PROJECT VALUED AT 61.70 LAKHS

ABOUT: Renovation Of Existing Room Into 69 Seater Conference Hall By Providing Wall Panelling False Ceiling And Flooring And Providing lei, Fans Fittings Under Floor Raceways, Mcb, Mcb Dbs, Audio And Video System In 2 Nos Conference Hall Vrf Vrv Ac System In 3 Nos Rie At Bhubaneswar During 2019-20

TENDER VALUE: INR 61.70 Lakhs /-

EMD: INR 123408.00 /-

LOCATION: Orissa

To know more about the project:
www.tenderwizard.com/CPWD

WEST CENTRAL RAILWAY'S AUDIO-VISUAL INSTALLATION PROJECT VALUED AT 32.03 LAKHS

ABOUT: Open Tender For Sole Advertisement Right For Advertisement Through Audio Visual Advertisement, Supply, Installation, Operating And Maintenance Of Closed Circuit Digital Display System Integrated With Public Announcement System Comprising Of Lcd/Led Tvs An

TENDER VALUE: INR 32.03 Lakhs /-

EMD: INR 340300.00 /-

LOCATION: Madhya Pradesh

To find out more about the project:
<https://www.ireps.gov.in>

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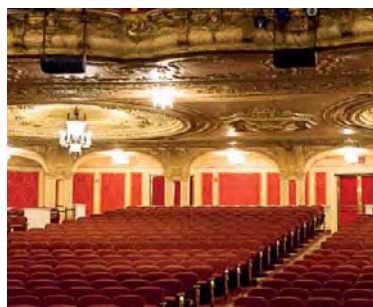
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