

AV-ICN_x

AV INTEGRATION COMMUNICATION NETWORKING

HMPL - Integration Case Study



AV Integration at S & P Global in Ahmedabad by Vineet Singh and his team at HMPL, Bangalore

25 AV PRODUCTS SPOTLIGHT 2019



Top 25 Products of 2019

**Absen Launches
Next Evolution of MiniLED**

Kuldip Kamat - ALL Wave



Interview

Industry leader Kuldip Kamat, talks about demand for adoption of global standards and emergence of collaborative environments

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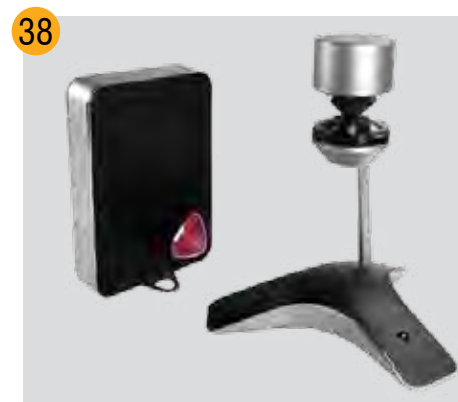
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Epson LightScene EV-105 3LCD laser projector



POLYCOM CX5100 UNIFIED CONFERENCE STATION

AV - ICNx TECHNOLOGY

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SENNHEISER HIGHLIGHTS CAMPUS-WIDE AUDIO AT AMSTERDAM

NEW IT-FRIENDLY AUDIO SOLUTIONS FOR HIGHER EDUCATION AND CORPORATE CUSTOMERS

Sennheiser showcased how easily its audio systems can be deployed and integrated, as well as controlled and maintained in campus-style installations at ISE 2020. Sennheiser showcased the latest generation of its MobileConnect assistive listening system. Consisting of the MobileConnect Station, MobileConnect Manager and the MobileConnect App, the streaming solution provides students with a fully inclusive and individually adaptable listening experience. In addition, Sennheiser's successful SpeechLine Digital Wireless microphone system will be expanded by a new multichannel receiver, whose form and function recommends it to modern IT infrastructures.

Also on show was a major update for



THE MULTICHANNEL MICROPHONE RECEIVER, SPEECHLINE DIGITAL WIRELESS SERIES

G4, Digital 6000, as well as the TeamConnect Ceiling 2 microphone.

TeamConnect Ceiling 2, a certified for Microsoft Teams product, was tried and tested in a live demo room at the Sennheiser stand. Visitors could experience the crystal-clear audio transmission and interconnectivity of the adaptive beamforming microphone.

Ron Holtdijk,

Director Business

Communications at Sennheiser: "We see the integration of technologies and inclusion of people as being crucial goals that inspire our focus. Our microphone and streaming solutions help our customers achieve these objectives, covering all audio and communication requirements

on campus, whether it's for lecture halls, smaller seminar rooms or even conference rooms."



Mobile Connect station

the Sennheiser Control Cockpit software, which allows centralized control and monitoring of campus- and company-wide

audio installations with Sennheiser's wireless microphone series such as SpeechLine Digital Wireless, evolution wireless G3 and

CRESTRON INTRODUCES WIRELESS HORIZON EX DIMMERS & KEYPADS

Crestron announced recently it is now shipping its wireless Horizon EX keypads and dimmers. Featuring matching dimmers and keypads, the new line of wall-box controllers provides an advanced custom control solution as part of a complete Crestron smart home. Horizon EX universal dimmers are not only beautiful, but also powerful. There's no minimum load requirement and they offer more reliable LED dimming.

"Now, with the Horizon EX line, our residential systems integrators can deliver a consistent, elegant look throughout the home for hybrid systems," said **John Clancy**, VP Residential at Crestron.

Flexible design and control options

Available in black, white, and almond with highly configurable 1,2, 3 or 4 gang boxes, the Horizon EX line offers designer aesthetics, superior button feel, four different button styles, interchangeable custom top and bottom trim pieces to suit any décor (faceplates sold separately), and wireless communications.

Programmable backlighting

For enhanced readability under any lighting conditions, every model in the Horizon EX line includes multi-color backlighting that illuminates the high-quality laser engraved text on the buttons. If desired, when the button is pressed it can glow up to two to three times brighter than the inactive buttons. Moreover, each

button can be programmed to glow in any color – it's completely customizable. **infiNET EX wireless communications**

With built-in Crestron infiNET EX wireless mesh technology, Horizon EX dimmers and keypads can reliably transmit and receive commands and intelligently integrate with lighting, shades, HVAC, security, and AV for a complete smart home.

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HARMAN PROFESSIONAL ANNOUNCES BRIAN DIVINE AS PROFESSIONAL SOLUTIONS DIVISION PRESIDENT

With a 15-year background in the Professional Solutions division, Divine brings deep experience in operations, engineering, product development and much more

HARMAN Professional Solutions announced the appointment of **Brian Divine** to President of the Professional Solutions division, effective immediately. As president, Divine will be responsible for overseeing the division's worldwide operations, strategy, product roadmap and performance across all eleven brands.

Divine's elevation to the role is culmination of a nearly 20-year-career working in the pro audio, lighting and video control industry. In his 15 combined years at HARMAN, Divine worked closely with distributors and customers in nearly all of the entertainment and enterprise vertical markets the division serves in roles overseeing customer service, sales, engineering, marketing and product management. Divine was most recently Senior Vice



Brian Divine, President of the Professional Solutions division, Harman Professional

President for Products & Customer Solutions in the Professional Solutions division

and VP of Product & Program Management, respectively.

"I am honored to accept this role, and do so with great humility and awareness of the awesome responsibility of carrying forward HARMAN's iconic brands that were built over the course of, in some cases, nine decades," said Brian Divine, President, HARMAN Professional Solutions. "The pro industry is in my DNA as my career was built through dedication to HARMAN Professional Solutions and its employees, channel partners and customers. These influences will directly impact the direction of the division as we look towards a robust roadmap committed to, and aligned with, customer needs for leading-edge pro products in audio, lighting and video control."

ABSEN LAUNCHES NEXT EVOLUTION OF MINILED AT AMSTERDAM

Absen's MiniLED products made its debut at the ISE2020 for both the fixed installation and rental markets in February.

Absen's MiniLED products are ultra-fine pixel pitch, incorporating 4-in-1 pixel configuration (IMD) and common cathode technology. This gives the product superior visual performance, flatness and contrast, and makes them 2.5x as strong as standard SMD LED – not to mention 20% more energy efficient.

Demand for Absen MiniLED products has been very high since the launch of the CR

Series in 2018, and intensified significantly with last year's launch of the Aries (AX) Series: the market-leading sub-2mm MiniLED rental display, designed to meet the rigorous demands of the rental staging market. The popularity of MiniLED has further increased with exceptional demand from the corporate/retail market in applications such as corporate lobbies, event spaces, car showrooms and retail stores.

Absen MiniLED now comes as standard in 4 core product lines: the Aries (AX), Acclaim (A27 Pro) and Control Room (CR) series, as well as the newly launched HC Series for mission-critical environments.

The Next Evolution MiniLED products

The A27 Plus has been Absen's best-selling fixed install product, seeing over 300% growth in 2019. This year's ISE will see the series become available as a MiniLED range – the A27 Pro series – making it better, stronger, and more efficient.

Since its launch at ISE 2019, AX 1.5 will now be available in 1.2 and 1.9mm varieties, providing even more flexibility and choice to meet the evolving demands of

global rental customers.

Finally, the CR Series will now be available in 0.7mm pixel pitch, which represents the company's smallest pixel pitch and highest resolution display. As well as this improvement, Absen will also present the HC Series, a new 0.9mm MiniLED display for the high-end control room market. The HC 0.9 delivers excellent contrast and colour uniformity and will be set up as a nine-piece video wall at the show.

Other product announcements

Absen also launched a new product for the Digital Out-Of-Home (DooH) advertising market. The AW Series is Absen's new outdoor fine pitch LED for light box displays, bus shelters and other types of urban street furniture.

The popular meeting room solution, Absenicon, which was unveiled at ISE 2019, is also back with a slimmer frame, a flatter surface and better ease-of-use. Available in four standard sizes, the upgraded Absenicon is set to open up the market for LED with its improved accessibility and affordability.



QSC NOW SHIPPING NEW DPA-Q NETWORK AMPLIFIERS

QSC announced the global availability of the new DPA-Q Series network power amplifiers in four- and eight-channel models. The new DPA-Q Series amplifiers unite the QSC legacy of robust power amplifiers, advancements in high-efficiency output devices, and native network transport, plus the control and monitoring capabilities of the Q-SYS Ecosystem.

"The addition of DPA-Q amplifiers to a Q-SYS design is an excellent example of a native ecosystem approach to network design," says **Barry Ferrell**, Vice President, Cinema Product Development and Strategy. "Technicians can take advantage of next-generation amplifier design, while also utilizing the native signature features and technologies QSC is known for, such as Intrinsic Correction. This native approach can greatly reduce installation and setup time, while also maximizing performance across the entire system, enabling unforgettable movie-going experiences."

The amplifiers include new features and performance improvements compared



QSC's New DPA-Q Series

to the original DPA-Q Series introduced six years ago. They use a highly efficient, Class-D hybrid powertrain design built upon the reliable PL380 PowerLight amplifier platform. New design features

include two QSC amplifier innovations – FlexAmp and FAST (Flexible Amplifier Summing Technology), that combine to offer far more flexibility in output deployment.

MARTIN AUDIO ANNOUNCES FIVE NEW PRODUCTS FOR ASIA

Martin Audio has made a start to the New Year with the announcement of five new products, specifically for Asian markets.

First out of the gates is the new S. Series, comprising three passive two-way systems — the S.10, S.12 and S.15 designed specifically for small-medium entertainment installations and family KTV.

S. Series enclosures feature a user-rotatable horn for vertical or horizontal orientation and multiple M8 threaded inserts for easy installation. The trapezoid enclosures are braced internally to reduce panel resonances and improve sonic performance with drivers protected by a perforated steel grille. Rear ports couple the low-frequency output to walls or ceiling, producing enhanced bass output without the need for additional subwoofers.

The **S.10** is a compact, two-way passive loudspeaker designed for family KTV, BOX KTV and music bar rooms. It utilizes a 10"/2.5" voice coil, LF driver and a 1" exit HF compression driver with a 1.4" poly-

imide diaphragm.

The **S.12** is a high-performance, two-way entertainment system featuring a 12"/2.5" voice coil LF driver unit and a 1" exit compression driver with a 1.4" (35mm) polyimide diaphragm on a rotatable 80° x 50° HF horn.

The **S.15** features a powerful 15"/3" voice coil LF drive unit and a 1" (25mm) exit HF compression driver with a 1.75" polyimide diaphragm for extended high frequency response.

In addition, Martin Audio has extended the **BlacklineX** series with the **X218 subwoofer** and the high power **XH15 passive two-way system**, aimed at the club and entertainment market.

The X218 is a dual-driver, high performance subwoofer with an operating range of 42Hz-200Hz + 3dB. It produces high output levels 141dB peak SPL (half space) with low distortion and can be used singly or stacked horizontally. It features dual 18"/4" voice coil, long-excursion drivers in a reflex enclosure with eight large ports

that reduce air turbulence at high output levels.

The high power Blackline XH15 provides improved performance over the existing Blackline X15 in a wide-bandwidth system and a compact and efficient package.

Extended frequency response is provided by a 15" LF driver and a 1.4" exit compression driver mounted on a rotatable 80° x 50° constant directivity HF horn.

The HF driver utilizes a titanium diaphragm with controlled break-up modes for improved sonic performance at high frequencies and the crossover design and LF cone profile have been optimized to match the directivity of the HF horn and LF section through the crossover region.

Summing up the new launches, Martin Audio's Managing Director, **Dom Harter**, said, "Our double-digit growth for the last three years has been largely born out of a new product drive and these latest additions primed for Asia markets will further drive our pedigree and success in both club and KTV installs."

AVER LAUNCHES SMALLEST, LIGHTWEIGHT DOCUMENT CAMERA

The new AVerVision M15-13M Mechanical Arm Visualizer is AVer's smallest, most lightweight document camera to date, and it's filled with powerful imaging and connectivity capability. Teachers can pull the M15-13M out of a handbag or backpack and instantly create a fully interactive learning space.

Weighing in at merely 0.68 kg, the M15-13M features the same design as that of AVer's Good Design Award-winning M15W visualizer. It folds into a thin bar that effortlessly fits in a bag with textbooks or other devices, and it's easy for young learners to pass around a classroom. A highly adjustable arm and 180° rotatable camera with a larger than A3-sized shooting area enable users to project detailed models, plants, documents, and more. Setup is also extremely efficient. Just plug and play via USB or HDMI connection to a laptop or other display, and capture images and video with the push of one button via Sphere2 software. The M15-13M's ergonomic design makes it useful for engaging students of all ages

and in every area of study.

No high-powered technology specifications were cut to make the M15-13M so compact and convenient. In fact, it's one of the most technologically advanced visualizer models AVer has ever produced, with a 13-megapixel camera, 4K Ultra HD imaging at 60fps, and 23X zoom delivering super-clear lesson content. For instance, users can create smooth videos of science experiments or robotics projects in STEM programs to share online or use in other classes. It's also perfect for livestreaming and distance learning applications, including one-on-one tutoring sessions.

The M15-13M's accompanying software is just as impressive as its hardware. AV-



AVerVision M15-13M

er's A+ Suite connects student devices to the visualizer for sharing and annotating content in class with Sphere2 and Class-Send. Also, teachers can upload content for cloud storage or publishing on social media. Use these free but powerful tools with the M15-13M and discover why AVer is a trusted name in the global education technology industry.

EXTRON INTRODUCES NEW PORTRAIT WALL MOUNT TOUCHLINK PRO TOUCHPANEL

Extron recently introduced the TLP Pro 300M 3.5" portrait wall mount TouchLink Pro Touchpanel. The TLP Pro 300M is designed to control video, audio, lighting, shades, HVAC, security, and other systems within virtually any environment. This touchpanel is equipped with a 320x480 resolution capacitive touchscreen built

with scratch and smudge-resistant Corning Gorilla Glass. The TLP Pro 300M also features the convenience of Power over Ethernet, which allows it to receive power and communication over a single Ethernet cable. It conveniently mounts in a one-gang junction box without the need for additional mounting hardware. The TLP

Pro 300M is ideal for any environment requiring a wall-mountable, portrait touchpanel with a fully customizable interface.

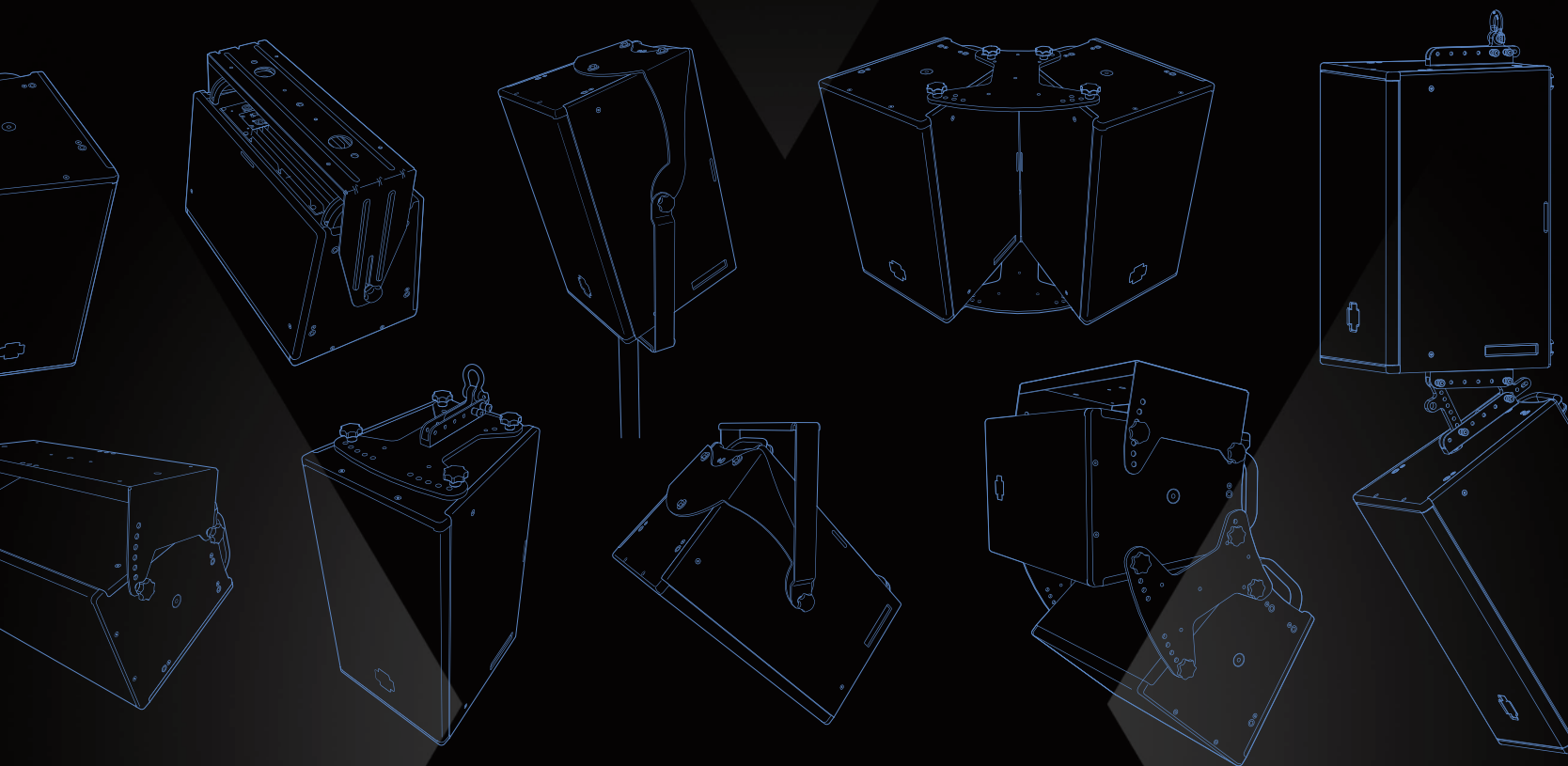
"We are always looking for new ways to integrate our Pro Series touchpanel technology into new spaces for even more control options," says **Casey Hall**, Vice President of Worldwide Sales and Marketing for Extron. "Our compact TLP Pro 300M is our first touchpanel with dedi-

cated portrait orientation; it can be used in countless applications for simple, stylish AV and environmental control."

The TLP Pro 300M works with any Extron IP Link Pro control processor or HC 400 Series system and is designed for use in AV system applications that require complete, interactive control of a broad range of source devices. TouchLink Pro touchpanels operate using standard network infrastructure and are easy to install with reliable and cost effective Ethernet cable. All TouchLink Pro touchpanels can be customized using Extron GUI Designer software. This powerful interface design software offers ready-to-use templates for a wide variety of rooms and presentation environments. These designs may be used as is or customized for the application by simply changing individual graphic elements.



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ULTRA-X40

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HMPL ELEVATES USER EXPERIENCE AT S&P GLOBAL HEADQUARTERS

In the last decade or so, AV has cemented its stand in the corporate sector. Corporates in the quest for a seamless workflow are increasingly looking to upgrade their AV infrastructure.

When financial information and analytics company, S&P Global, expanded its Indian headquarters in Gujarat, it sought to push technical boundaries with the help of one of India's leading independent consultancies – HMPL Consultancy. AV-ICN takes a look inside the project.

A year ago, when S&P Global India, the Indian arm of S&P Global Inc., an American publicly traded corporation headquartered in Manhattan, employing more than 21,000 employees in 33 countries, started to expand its headquarter located in Ahmedabad, they brought on board HMPL Consulting to make major upgrades in the AV Infrastructure and technology.

"In India, what began as a 200 member team has grown to an operation covering three cities with nearly 7,500 employees. Through our new facilities, our people are empowered to develop the advanced technological skills necessary to deliver exceptional value for our customers, while at the same time improving operational efficiency and strategic development of technology services continuing to propel S&P Global as it powers the markets of the future," said **Abhishek Tomar**, Managing Director- India Operations, S&P Global.

S&P Global was looking for an AV Consultant to design and install state of the art AV infrastructure, as the current Audio-Visual technologies being used were delivering a bad user experience in some of its meeting and collaboration spaces. They had limitations on collaboration and had to rely on un-standard software applications to work on. All of this resulted in an unorganized technology infrastructure, which in turn made corporate town hall meetings very difficult and did not serve the purpose of wanting to address all employees together at once.

The company needed a fix. Headquartered in India, with branch offices in the UAE, UK, Philippines, Australia and the US, HMPL has worked with some of the world's largest corporations across enterprise and has been part of several signature buildings in association with International leading architects and project managers across the globe.

Recognizing the extensive experience and considering that HMPL had a diverse team of technocrats, each recognized as experts in their respective field of audio and acoustic Engineering, S&P tasked the consultancy with the job of delivering a much better user experience supported by a reliable AV Setup.

"HMPL has grown immensely over the years to provide some of the best in class solutions to cater to the everchanging trends in the use cases from the businesses across enterprises. We are very proud to have been engaged on a project of this scale and complexity, and to successfully deliver the same in line with international standards as adopted by major corporations globally. The testimony to the quality of services offered and executed by HMPL for S&P is the fact that we were engaged for two of their campuses in Ahmedabad and Hyderabad as an extension of our contract. We must also acknowledge the fact that the end users at S&P were indeed very flexible and adaptive in adopting newer technologies and trends as part of their fit outs - be it their agile work spaces, divisible training rooms, cafeteria with full fledged townhall scenarios, collaboration spaces, NOC etc.," said **Vineet Singh**, Managing Director, HMPL.

To make the AV infrastructure and the UI- user friendly, HMPL, had to first assess the technology needs, pain points, constraints and expectations of the client.

The spaces in the building that needed to be upgraded with state-of-art AV infrastructure included:

- RECEPTION
- CONFERENCE ROOMS

- MEETING ROOMS
 - DIVISIBLE TRAINING ROOMS
 - COLLAB SPACES
 - BOARD ROOM
 - CAFETERIA - TOWN HALL
 - GYM
- After brainstorming and studying the

involved, to ensure that the audiovisual design-build would meet the needs of day-to-day end users.

AV INFRASTRUCTURE

The Reception:

The reception is deployed with a

Town Hall feed to facilitate the client's requirement of using the Reception space to hold small tech events for external Users and visitors.

The speakers are strategically placed to perform well in the non -acoustic friendly environment providing clear audible lows and highs paired up with the Powersoft amplifiers.



The Reception area at S&P Global fitted with a 700Nits video wall by Panasonic to play live feed of the townhall from the cafeteria

Technology Highlights (Reception):

- DUAL 3x3 55" Panasonic 700 Nits 1.9mm LED Video WALL
- Panasonic Sign Edge Digital Signage
- Wall Mount speakers from TW Audio backed by Powersoft
- Amplifiers Live Stream provisioned from Cafeteria for Town Hall feed.
- Microphones for small Tech events from Beyerdynamic
- Crestron Switching, Control and Touch User Interface
- Integration with Extron Global Room Monitoring

The Meeting Room:

All small and medium sized meeting rooms are equipped with a single 4K display with one of the matrix switcher connected to it and the other to the Polycom Trio. The HDMI and the USB-C are connected to the switcher along with the Polycom output for as Input sources. The

needs of the client, HMPL came up with the most innovative solutions. Throughout the process, HMPL's approach remained customer focused by providing maximum information, latest technology options and more. Important stakeholders were

700Nits Video wall by Panasonic that runs 4k content with uncompromised clarity and brightness in the said environment. The video wall also acts as a large Presentation displays, Display for Digital Signage and can play live stream from Cafeteria



The Meeting room is deployed with a large 4k display and Polycom Trio amongst other things for easy and convenient meetings

Technology Highlights (Meeting Room):

- 4K Panasonic Displays
- Extron Cable Cubby 500 with Customisable Control Buttons
- Polycom Trio with Wireless & HDMI
- Extron SW4 Matrix switcher
- Extron IPL Controller for Global Room Monitoring and Control
- Connected and Monitored by Extron Global Viewer Enterprise
- Crestron 7" Touch Panel outside the room for Room Scheduler
- Integration with Extron Global Room Monitoring

Technology Highlights (Board Room):

- 4K Panasonic Displays
- Multiple Extron Cable Cubbies
- Dual Polycom Trio
- Polycom Group Series with Eagle Eye Cameras
- Crestron Matrix switcher
- Barco Click Share for Wireless Presentation
- Extron IPL Controller for Global Room Monitoring
- Connected and Monitored by EXTRON Global Viewer Enterprise
- 10" Touch Panel for User Interface
- Crestron 7" Touch Panel outside the room for Room Scheduler
- QSC Ceiling Speakers powered by QSC Amplifiers



The Board rooms are fitted with dual displays to facilitate ease of video conferencing and presentation comparisons

resolution from Polycom is 1080p and the other sources run on 4k.

The meeting rooms are deployed with Extron Cable cubby 500 with buttons that works as the UI for these rooms. These buttons are standard across all rooms to provide the same user experience across the facility. The IPL processor used is on the network sharing information with EX-

TRON Global Viewer Enterprise for remote monitoring and control.

The Board Room:

To make presentations and video conferencing better and easier, the Board Rooms are fitted with Dual Displays for Video Conferencing and presentation comparison. The Matrix Switcher is wired and programmed to detect Laptop connectivity and power up the displays automatically. The Trio's also can wake up the displays on selecting the op-

captured in the frame.

To fulfil the audio 6 QSC Ceiling speakers which are also powered by QSC Amplifiers are installed along with Microphones from Polycom which are directly wired to the codec.

The touch Panel UI is simple, which features VC and Presentation mode along with the admin mode for advanced setting and control. It also offers flexibility to control Video sources and Audio.

The Room scheduler is on the corporate network linked the Microsoft exchange server for room booking integration.

The best part of the Boardroom is its performance despite non-acoustic friendly surfaces and finishes.



Vineet Singh, Managing Director, HMPL

“We are very proud to have been engaged on a project of this scale and complexity, and to successfully deliver the same in line with international standards as adopted by major corporations globally.”

tions on the touch interface.

Eagle Eye cameras are deployed and connected to Group series ensuring all participants are clearly

Cafeteria- Town hall:

S&P Global was clear about the usage of the cafeteria. They wanted the cafeteria to work as both- a dining area as well as a space where they could accommodate everyone for Town hall.

Keeping in mind the requirements,



Technology Highlights
(Cafeteria):

- Panasonic 3x3 Video Walls x 2
- Extron Quantum Video Processing
- Integrated Audio Conference
- Polycom Integrated Video Conference
- Panasonic Presenter Tracking Camera
- Crestron Seamless 4k Switching
- Extron Live Streaming & Recording
- Martin Stage Performance & VC Lighting
- Motorised Preview Monitors
- TW Audio Line Array Speaker System
- Integration with multi Town Halls
- Digital Signage
- Annotation & Collaboration
- Integration with Extron Global Room Monitoring

HMPL suggested that the area be equipped with Video conference and Live streaming as well with multi large Video Wall Screens and Projection screens to ensure the highest quality, seamless visibility and coverage throughout the Cafeteria. The video conferencing systems feature two HD cameras, mounted to the side screen ideal for head shots and one above delivering overhead room views. The challenge was to provide the best sound possible when surrounded by a non-acoustic friendly high ceiling and glass walls, glass ceiling and mirrors. This being a major challenge, with the use of microphones and integrated conferencing for town hall sessions, the three Large Screens were flanked on either side by Line array speakers.

The TW AUDIO VERA T20i and B14i Subwoofers are placed in a way that the clients have more control on the gain and we can easily distribute the Audio without causing any feedback on stage for higher SPL.

The ability to live stream or connect through live video with client's remote offices, other floors in the country's location, or anywhere in the world allows simple communication between employees.

The challenges faced by integrators owing to the Large Town Hall being a Non-Acoustic Friendly Space and requiring Cafeteria Catering, were mitigated with the deployment of:

- Hydraulic Motorised Preview monitors

& Speakers.

- Multi Source 4K Switching, Streaming & recording.
- Zoom into a particular participant in a single touch.
- Annotation and Collaboration with small handheld devices.
- Wireless Connectivity for multiple participants simultaneously

Training Rooms- Divisible:

The management at S&P Global wanted the training center to include features like interactive classrooms, audio intrusive solutions and recording, streaming capabilities and soft codec integration all controllable by the user.

They also wanted AV and IT as an integrated solution. This integration included supporting the S&P's use of Extron Global Viewer Enterprise, allowing the central management of the rooms' functionality and enhancing the capability for support, service and maintenance.

HMPL worked with Stake holders' team, to design effective ways to meet their requirements, whilst still delivering multiple new versatile and high performance learning spaces. These range in size from large (90 capacity) to medium (60).

The Training Room is deployed with a large projection screen of 120" Diagonal from Dalite with 7000 Lumens Laser projector from Panasonic installed inside of a ceiling mounted shroud. The unique display solution maximizes the room's usable area and audience size in a challeng-

ing space.

Trainees can connect on wireless with Quad and multi view options. Program audio, such as laptop, cable boxes, and Room PC can be heard from the front in wall speakers and ceiling speakers.

Shure (The MXA 910) ceiling array microphones are connected to QSC Core 110f to facilitate VC and Audio Conferencing for remote training sessions. The latest Q-SYS Designer Software v5.3 update enables a multitude of audio connectivity options including audio integration via Dante, analog audio as well as AES67.

The equipment rack holds the room PC's which are wired over IP to screens. The PC's can be brought on the screens in addition to the local sources and wireless sources. The neighboring Collab can be used in a combination as well the touch panels in each of the rooms have the option to enable the rooms to the combine or independent rooms. These rooms also support live feed from Cafeteria Town hall or auditoriums and vice versa.

Collab Spaces:

The Collab Spaces has been deployed with a Panasonic 65" 4k resolution wall mounted display, intended to display either of the following sources:

- Sign Edge Panasonic Digital signage content
- Satellite TV
- Presentation content from HDMI wallplate

The AV control, processing and distribution equipment for the Client Lounge is incorporated into the AV rack installed in neighboring Hub Room 1 to minimize floor space clutter.

Control of the audio-visual equipment from a Crestron MPC keypad panel flush is mounted in the Collab and the space has been integrated with Extron Global Room Monitoring

4x ceiling-mounted loudspeakers have been installed for programmed audio reproduction

GYM:

The client's requirement was clear- they wanted high quality Audio with good low and high frequency output. This need was fulfilled by the 4K displays that run satellite TV content and music videos through the Yamaha AV receiver which supports

“We are so proud of the new space HMPL has helped us create. We have taken collaboration to the next level with our new high performance work and meeting spaces, making it easier than ever to communicate with our customers and partners around the world. Our Cafeteria Town Hall is probably the best in the world offering the best of technology and flexibility.”

Head of IT at S&P Global, India

world offering the best of technology and flexibility.

This is a fantastic achievement for the project and the HMPL team that delivered this outcome. Perhaps most satisfying is

project in corporate category and HMPL as the consultant of the year nomination as well. I am very proud of my team led by our senior AV Consultant, **Nithin Manjunath** to have successfully delivered this project to S&P as a state of the art facility setting a new benchmark for them,” says Vineet Singh.

The design choices that the team selected have resulted in a high performance building. For example, the Audio Visual systems were selected for their return on investment, every day long operations, and maintenance considerations, future scalability, and their ability to improve the Experience, Ease of use and quality for the staff.

HMPL is a highly recommended design consultancy for quality jobs across all our projects,” concluded **Guru Ramamurthy**, Head of IT at S&P Global, India.

Key AV Systems (For gym): Yamaha AV Receiver; TW Audio 250 Watt Wall speakers; TW Audio Subwoofers; Powersoft 4 Channel Amplifier; 4k Displays; Satellite TV

USB Playback with Bluetooth and airplay connectivity.

The Audio output from the Receiver is fed to the Powersoft Amps which is wired to all the speakers on different channels.

Digital Signage:

S&P wanted to implement a Digital Signage System and make it a standard across the country to manage and schedule common content throughout. HMPL Helped them identify ideal locations to position the Displays and recommended size 12 for fonts which is readable from the nearest zones.

“We are so proud of the new space HMPL has helped us create. We have taken collaboration to the next level with our new high performance work and meeting spaces, making it easier than ever to communicate with our customers and partners around the world. Our Cafeteria Town Hall is probably the best in the

that this sustainability achievement was the result of an integrated and engaged design process, not a race to acquire points,” said **Guru Ramamurthy**, Head of IT at S&P Global, India.

“This project is also nominated for the InAVation awards at ISE 2020 for the best

PROJECT SIZE: 400,000 Sq ft. Campus in Ahmedabad and Hyderabad

PROJECT TIMELINES: January 2019 to August 2019

PROJECT VALUE: 3 Million USD

AV CONSULTANT: HMPL CONSULTING PRIVATE LIMITED – INDIA

AV DESIGN, DOCUMENTATION, DELIVERABLES: HMPL CONSULTING PRIVATE LIMITED

AV SYSTEM INTEGRATOR: OFFICE 2000

MAJOR OEMS: Panasonic, Polycom, Crestron, Extron, Peerless-AV, TW Audio & QSC

To send in your Installation news drop an email to
srai@av-icnx.com | cparasrampur@av-icnx.com

CRESTRON

DIN-AP3

The Crestron DIN-AP3 is a 3-Series Control System designed for DIN rail mounting applications. Featuring the 3-Series control engine, the DIN-AP3 forms the core of any modern networked home or commercial building, managing and integrating all the disparate technologies throughout the facility.

The DIN-AP3 is designed to snap onto a standard DIN rail for installation in a wall mount enclosure (Crestron DIN-EN series [1] or similar) or on a wall panel. DIN rail mounting affords a very space-efficient, cost-effective, and modular solution

for configuring complete automation systems using the DIN-AP3 along with additional Crestron and third-party DIN rail mountable devices.

Designed for enhanced scalability, the DIN-AP3 allows high-speed, real-time multi-tasking to seamlessly run multiple programs simultaneously. This exclusive modular programming architecture lets programmers independently develop and run device-specific programs for lighting, shades, HVAC, security, AV, etc., allowing for the optimization of each program, and allowing changes to be made to one program without affecting the whole. Even as your system grows, processing resources can easily be shifted from one 3-Series processor to another without rewriting any code. The end benefit is dramatically simplified upgradability with minimal downtime, whether implementing changes on site or remotely via the network.



AURORA

HTE-TX2

The HTW-2 HDBaseT 2.0 transmitter wall plate, HTE-TX2 HDBaseT 2.0 transmitter, and HTE-RX2 HDBaseT 2.0 receiver are part of Aurora's HT Series capable extending 4K60 4:4:4 & HDR (18Gbps) 100m (330')

with unshielded cable. It comes with a Directional USB to allow a user to choose which side the host (PC) vs the device (peripheral) will be located. It also has a Built in IP port expansion allows any 3rd party control system to send commands directly



to the unit for source switching, RS-232, and IR control. Aurora is the only product to allow a single PoE port power both the TX and RX at the same time with no wall supplies required for a very clean installation. For easier integration into an audio system, the HT Series is the only HDBaseT product to have optional Dante/AES67 up to 8 channels for surround sound. The Aurora HT Series re-invents the capabilities of HDBaseT beyond the typical point to point making it the ultimate HDBaseT integrator solution.

SEADA

G4K DS

The G4K DS is a 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.

In addition to its ability of edge blending at the output sides, G4K DS is able to capture up to two HDMI video sources and display them onto the projection screen anywhere and any size. Moreover, G4K DS also has an embedded 4K media player which enables G4K DS output 4K video source played locally in addition to two captured HDMI video sources. G4K DS units can be easily configured via IP connection or RS232 to a Windows based PC running management software. The Windows based software provides a user friendly GUI, greatly simplifying the system configuration. G4K DS units are able to run standalone without the connection to the control PC, once configured. G4K DS unit can work with LCD, DLP and LED displays as well to form a stand or creative video wall with its ability to rotate the output at any degree.



YAMAHA

WXC-50

The WXC-50 is a new-concept audio component that allows access to a wide variety of audio content such as music from streaming services or stored on a smartphone, and high quality sound and style thanks to the ability to network with Yamaha's exclusive MusicCast multi-room audio system. It is compatible with all types of music sources and services, such as streaming services. The app allows control of other MusicCast-compatible components. With its One push play feature, pressing any button turns the unit on and initiates playback of the previously selected source. The WXC-50 comes with a 48-bit digital volume control which is far greater than the input signal bit resolution, achieving high quality control. It also supports DSD 5.6 MHz and FLAC / WAV / AIFF 192 kHz / 24-bit for high resolution reproduction. Its compact body, only 214 mm (8-3/8") wide fits in any convenient location, can be used horizontally or vertically. It's Suitable size for 1U rack with a width of 214 mm (8-3/8") and height of 42 mm (1-5/8") (without feet). It can be seamlessly linked to Yamaha amp with MAIN IN and Trigger In terminals for control of system power and volume. The Pre Amp mode can be turned off and the device can be used as a simple network audio player.



LUMINA SCREENS

ACCUPIX PRO

Accupix Pro is an acoustically transparent projection screen made of a woven material that blocks light from passing through, but allows sound to pass through without being distorted. Accupix Pro, gives an illusion of the character's voices coming from "behind" the picture as opposed to the sides or beneath it, as it emulates the characters talking. The SDR technology woven screen material comes with natural variations in their thickness and pattern, making them more effective in reducing alignment with the projector pixels and reducing the effect of moiré than that of a perforated screen. The woven projector screen tends to allow sound to pass through, better than a perforated screen. The SDR technology also allows complete opacity to the projection surface when viewed from the front, so the speakers cannot be seen through the screen and the speakers also do not reflect any light through the surface creating a visual deformity. The screen material is usually of a higher quality than standard screens. The maximum height available is 110" in height in any aspect ratio. This screen is available with zero edge frame and fixed velvet frame. Accupix Pro is best suited for 16K and UHD enabled content and exclusively available only at Lumina Screens.



EXTRON

AAP AV Connectivity Module

Extron AAP AV Connectivity Modules feature pass-through AV connectors or active modules on mountable metal plates that fit into select Extron interfaces, AAP AV connectivity mounting frames and other products that accept AAP modules.

Extron offers a wide selection of passive AAP modules with audio, video, phone, data, power, and control connectors. Active modules are available for audio buffering, video line driving, twisted pair transmission, control and power output. An assortment of AAP

mounting products are available that let you place the connectivity and control points in the optimum locations whether that



is in a wall, table, podium, floor box, or equipment rack.

Since AAP modules are modular components, they fit together in a variety of combinations, making it easy to provide the exact connectivity needed for each audiovisual installation. AAP modules can be quickly added or removed, providing the flexibility to meet changing AV system requirements.

Furthermore there is provision to also custom engrave AAP modules to clearly indicate the function of each connector or button.



DELTA

NETWORK BASED CONTROL SYSTEM – DVCS

The Delta DVCS incorporates a number of advanced processing technologies including signal capturing, motion adaptive de-interlacing, high quality image scaling, 3D noise reduction, color dithering, color space conversion and IP stream transmission. The processors capture video signals at full resolution while retaining their original frame rate and color depth. These technologies combine to deliver exceptional image quality on the display with no signal degradation over long distances, round the clock, day in and day out.

A display processor can be configured to display single or multiple sources in windows of any size. Alternatively, multiple display processors can be grouped together to drive a display wall of virtually any size with content spanning one or more walls. All signals are processed in real time, irrespective of the number of signals or the size of video display wall. Large scale displays with up to 10,000 display units can be supported each with up to 64 signals. Additional input or outputs can easily be added to the system as your needs change and grow.

The Delta DVCS incorporates DVCS input processors which capture RGB and video signals from a range of input sources including computers and video cameras. The signals are processed and transmitted over the IP network via a 100/1000M Ethernet switch using standard CAT5 cabling and then displayed by DVCS output display processors. All RGB and video signals are captured, processed, transmitted and displayed in digital format.



EPSON

EB-675Wi

Epson's EB-675Wi is a HD ready classroom projector. Epson's 3LCD technology ensures high-quality images with equally high White and Colour Light Output for vivid colours and bright images, even in daylight, and three times brighter colours than competitive projectors. With a scalable display size of up to 100 inches, two types of content can be displayed using the split-screen without compromising on quality. Epson's interactive pens are now even more responsive and easy to use when annotating directly on screen. With the new dual pens, teacher and student or two students can work simultaneously using different attributes.

The projector allows to project for longer with improved reliability and a longer lamp life of up to 10,000 hours in eco mode.

It's Multi-PC projection software allows teachers and students to share content simultaneously. The moderator function allows teachers to remain in control, choosing what content to display. Combine two projectors to create one large interactive display.

The Split-screen capability allows teachers to display two separate types of content simultaneously, such as a lesson plan from a PC and a still image or video clip from a document camera.

Content can be displayed wirelessly from a range of smart devices and Google Chromebooks using Epson's iProjection App3.



PLANAR

CARBONLIGHT CLO

The Planar CarbonLight CLO Series is a line of LED video wall displays ideal for outdoor rental, staging and flexible-fixed applications. Each lightweight display is suitable for hanging and free-standing installations. The Planar CarbonLight CLO Series' adaptable design enhances outdoor installation capabilities. The Planar CarbonLight CLO Series is available in 3.9, 5.2 and 7.8mm pixel pitches. The Planar CarbonLight CLO Series is designed to meet the requirements of a wide range of applications. The Planar CarbonLight CLO Series features a thin, lightweight, high-strength carbon fiber casing in a modular design to fit a wide range of simple or complex applications. The structural design of the Planar CarbonLight CLO Series has pioneered, patented and perfected the use of carbon fiber in the construction of LED video wall displays. From start to finish, the Planar CarbonLight CLO Series accommodates the fast-paced nature of rental, staging and flexible-fixed installations. With Planar CarbonLight CLO Series' modular design, free-standing or hanging applications are possible and can be quickly constructed using Planar CarbonLight bracketry.



OPTOMA

ZK507



The ZK507 is a bright and robust 5,000 lumens, 4K UHD laser projector for the ProAV sector with HDR supported and amazing color output. ZK507 features Optoma's DuraCore technology with a 20,000 hour lamp-less laser light source enclosed in an

IP5X certified optical engine to ensure reliability and minimal maintenance during its lifetime resulting in low total cost of ownership. It is designed to suit different installation environments, the ZK507 includes 24/7 operation capabilities and the brand new lens designed with 1.6x zoom and 100% – 115% vertical lens shift for the maximum flexibility.

Optoma's ZK507 deliver accurate and high quality images by leveraging the DLP 4K UHD chip and XPR technology. Capitalizing on the fast switching speed of the DLP chip and advanced image processing, over 8 million pixels are delivered to the screen.

Optoma's new DuraCore technology enhances lifetime. Implementing advanced laser diode cooling techniques, an innovative dust resistant design and light source lifetime at 20,000 hours. After Optoma's color calibration and tuning, the ZK507 are able to achieve maximum brightness with vibrant colors for presentation use.

CONNECT WITH INDIAN AV INDUSTRY

Following the success of the first annual AV-ICNx expo held concurrently with PALM expo 2019, the second edition is geared up to attract more than 400 exhibitors of global brands focused on Pro Audio Video technology & Solutions and top buyers and decision makers across segments which include Events, Entertainment venues, Corporate, Government, Hospitality and Retail.

BENEFITS OF PARTICIPATION

- Arc of brand promotion and reinforcement
- Coverage of product and technology in Expo magazines and newsletters
- Enables micro communication to your customers and suppliers about your participation
- Defines brand marketing plans in advance to coordinate successful product launches, collateral production and budgeting for sponsorships and allied events



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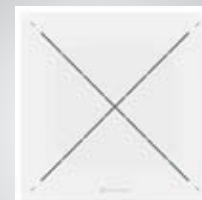
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TOP 25 AV HARDWARE

*AV-ICNx spotlights 2019's
Top 25 Products*



INTERACTIVE TOUCHSCREEN DISPLAY

BenQ:

BenQ's 4K DuoBoard corporate interactive flat panel facilitates efficient multi-tasking by enabling users to open two applications simultaneously, while Duo

by side, to double the collaboration space and develop borderless ideas under the powerful whiteboarding app EZWrite. The 65" and 86" DuoBoard also provides seamless video conferences with the embedded FHD camera and array mic, as well as intuitive display interactivity by incorporating the advanced P-cap (Projected Capacitive) touch technology. The P-cap touch enables accurate, precise touch responses on the screen for realistic handwriting, also features with

ViewSonic:

The TD2455 24-inch monitor comes with responsive, in-cell touch technology and an advanced ergonomic design, the ViewSonic TD2455 touch display delivers more hands-on control for collaborative classrooms and more productive workspaces.

The intuitive touch screen delivers a smooth and responsive experience, and with the 10-point multi-touch capabilities, users can simultaneously write or draw on the surface using styluses or fingers. Included with the monitor is a lightweight, optimized stylus pen that can be used to write notes, draw, or perform other detailed tasks that require more accuracy than fingertips. The pen can be easily attached to the base of the display. The latest USB 3.2 Type-C input transforms this display into a powerful hub by enabling easy connectivity to PC, laptop, and Chrome systems. In addition, USB Type-C delivers charging power, video, and audio over a single cable. The TD2455 features an ergonomic dual hinge stand that al-



BenQ's 4K DuoBoard Corporate Interactive Flat Panel

OS achieves cross-platform compatibility between Android, iOS, macOS, and Windows OS, for more collaboration. The Duo Boards function combines two panels side

InstaShare app for ease of wireless mirroring, open-platform software compatibility, smart eye-care solution, and hassle-free maintenance.

*ViewSonic TD2455*

allows the screen to be tilted and adjusted to deliver a more comfortable user experience. This sturdy design ensures that the display works in a variety of environments and scenarios to boost interactivity. With an optional mount kit, the TD2455 can be used with VDI client endpoints.

Sharp:

With its 10-point multi-touch functionality and high-sensitivity capacitive touch technology for a precise and smooth pen operation, the SHARP AQUOS BOARD PN-L401C interactive display can be used

*SHARP AQUOS Board PN-L401*

in a variety of roles and locations. When installed face-up or in a landscape or portrait orientation, it works as an interactive information interface. It can also be used

to engage and inform people in stores, museums, showrooms and other public spaces. With the PN-L401C interactive display, everyone can engage meaningfully in small-group meetings by sharing onscreen information. Intuitive touchscreen operation, whether with a finger or pen, facilitates active collaboration. And with the optional wireless board, you can also have BYOD meetings. When not being used in a meeting, it can be used as an appealing touchscreen signage displaying corporate ads, notices and other information.

Newline:

The IP Series by Newline brings effective collaboration with stronger network security. It comes with a Linux-based operating

*Newline IP Series*

system designed to keep your data secure, while providing your team all the tools they need to work. With an operating system powered by Linux, the IP Series lets you keep access to your network out of reach while still making it easy for anyone to walk up and use. Capacitive touch technology works and feels as natural as writing on a smart phone or tablet. With an instant response from the screen, interactivity and whiteboarding are made more intuitive than ever. Optical bonding gives you an ultra-wide 178° viewing angle. The IP Series lets you add a powerful on-board PC to bring the power of a desktop com-

puter right to your display. It can be used in the familiar Windows system and all its functionalities for unlimited and personalized collaboration.

Allsee Displays:

Infrared Free-Standing Multi Touch Screen Posters comes with both Android and Windows operating systems installed on the integrated PC it cannot be beaten on flexibility.

It has up to 10 touch points that allows for a wider variety of applications than ever before. This kind of functionality allows you to manipulate images, zoom in and out as well as perform many other touch gestures; much like

you would with a domestic tablet. It also allows for multiple users interacting with the screen at one time.

Although the screens have an integrated PC with two operating systems, there is also a possibility to attach external devices if required. Simply connect your device to the screen, via VGA or HDMI (for the video signal) and USB (for the touch functionality). The screen will then serve as your computer monitor and the touch functionality controls the cursor, essentially acting as your mouse. The third party PC or media player can be hidden inside the screen's lockable internal compartment.

*Infrared Free-Standing Multi Touch Screen Posters*

PROJECTORS

Epson:

Epson LightScene EV-105 3LCD laser projector is a signage projection solution from Epson, which can create visual displays and immersive environments. A convergence of lighting and display

technology, LightScene laser projectors can simultaneously illuminate and project on virtually any surface or material, unleashing experiential content for digital art, commercial signage and décor applications. The LightScene laser projectors feature WXGA resolution, 3LCD technol-

*Epson LightScene EV-105*

ogy for a brighter and true to life images, 20,000 operating hours plus a sealed optical engine, for amazing image quality matched by outstanding performance. It offers a sleek white spotlight design, easily blends into its surroundings, offering vertical and horizontal rotation, with flexible mounting on tracks, floors, walls or ceilings and is ideal for retail, hospitality, event spaces, showrooms, museums, etc. In addition to conventional projection on the wall, customers can also project onto curved surfaces, on corners, ceilings, floor, table, or any other surface, just by changing the angle of the projector. The projector has a contrast ratio up to 2,500,000:1, for exceptionally deep blacks and brilliant, vivid colors. 1.58x powered optical zoom and powered focus, allows the projector to be installed in both large and small spaces.

Christie:



Christie's D4K40-RGB, all-in-one, 40,000 lumen RGB pure laser projector features Christie Real Laser illumination technology and TruLife electronics, the D4K40-RGB is engineered to light up the largest canvases with spectacular visuals.

The Christie D4K40-RGB is a small, light and high-brightness, large venue RGB laser projector. There are no heavy external chillers, remote laser racks, or special pedestals – everything is completely integrated into a single chassis. Like all Christie projectors, the Christie D4K40-RGB is designed with the AV professional in-mind. Featuring 12G-SDI, DisplayPort, Christie Terra SDVoE input card, Christie Link and more, connecting a variety of sources is easy. The D4K40-RGB is also compatible with most Christie 4K lenses for added convenience and cost savings.

Power runs are also easy with the help of 220V operation.

Optoma:

Optoma's ZU516SA comes in a small and light compact design and useful vertical lens



Optoma ZU516SA

shift in the 5,000 to 6,000 lumens class. This projector works well for those applications that simply require the brightness level, ease of installation, with minimum maintenance for up to 30,000 hours**. The ZU516SA delivers outstanding reliability, high intensity brightness, compact design, stunning colors and spectacular image quality. High dynamic range (HDR) technology improves contrast ratio, brightness, and color depth on the display, delivers brighter whites and deeper black levels. It enhances the details and depth of field, making the images clearer and more realistic. The ZU516SA can be used for businesses, conference rooms, higher education, auditoriums, exhibitions, digital signage, entertainment venues, projection mapping, and simulation.

Panasonic:

The PT-RQ50K serves Native 4K (4096 x 2160) images with a laser engine that combines one red laser and two blue lasers operating at different wavelengths, light output is doubled from the same



Panasonic PT-RQ50K

footprint as our 26,000 lm PT-RQ32K 4K projector. The PT-RQ50K can be deployed at sporting events, arena concerts, outdoor mapping attractions, or museum exhibitions. An all-new laser engine expands color-gamut to 114 % of our current PT-RQ32K flagship, achieving lush, vibrant hues that pull audiences into the artist's world. A new red laser enhances two blue lasers, which output light at different wavelengths for high color accuracy. Combined with digital frame-by-frame control

to manage light output according to the scene's contrast and brightness requirements and dedicated red-laser cooling to precisely control temperature, the PT-RQ50K attains vivid reds and deep, natural blues for spectacular on-screen color expression.

BenQ:



BenQ Smart Projectors

The BenQ Smart Projectors feature a powerful built-in operating system with useful business apps, enabling wireless mirroring across multiple platforms, video conferencing, collaboration, and direct reading of files from USB drives to maximize meeting efficiency in the BYOD trend. Besides the standard throw models EH600, EW600 and EX600 with resolutions of Full HD, WXGA to XGA respectively, the short throw models EX800ST and EW800ST even incorporate hassle-free management apps to manage across BenQ smart projectors and interactive flat panels in one company, such as Account Management System (AMS), Device Management Solution (DMS), and X-Sign Broadcast to deliver instant messages into the projection screens.

CONFERENCE MICROPHONES

MXL:

The MXL AC-360-Z V2 is designed for use in corporate communication settings like group web conferencing rooms, huddle



MXL AC-360-Z V2

rooms, meeting rooms, and more. It has twelve internal microphone capsules, divided into four quadrants, ensure 360° of perfect speech intelligibility within a 25-ft radius, without reliance on any additional equipment. It's Solid, all-metal construction and a reinforced frame gives the AC-360-Z V2 extra durability for shared office environments. The included locking DC power supply ensures that the AC-360-Z V2 won't get accidentally unplugged during important meetings. The AC-360-Z V2's rubber feet are removable so that the unit can be mounted directly on the ceiling or conference room tables using the included assortment of USB cables, universal power supply, and mounting pads to enable virtually any installation, anywhere. It has a 25-foot audio range.

DPA:

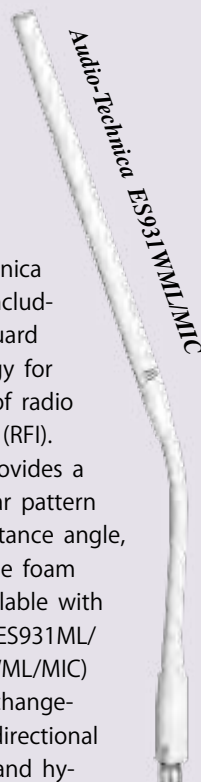
With very low noise and a high sensitivity, d:sign Super cardioid Tabletop Microphones offer a clear, transparent, and natural sound. They ensure maximum speech intelligibility regardless of the acoustical environment. With

a linear response, low distortion and an extremely large dynamic range, they work in any environment.

The Microphone Base is made specifically to work with the d:sign 4098 Supercardioid Podium Microphone. It has an unobtrusive design with a black, non-reflective surface and integrated shock mount, which ensures that vibrations from people touching the table as well as reverberations from people walking in and out of the room will not affect the sound. The audio cables are an integral part of the Microphone Base unit.

Audio-Technica:

The ES931WML/MIC MicroLine condenser gooseneck microphone can be used for boardrooms, school and government settings, teleconferencing, houses of worship and other installed applications. The microphone is equipped with a special TA3F-type connector that works with compatible Audio-Technica power modules (not included) and features UniGuard RFI-shielding technology for outstanding rejection of radio frequency interference (RFI). This gooseneck mic provides a uniform MicroLine polar pattern with narrow 90° acceptance angle, comes with a two-stage foam windscreen and is available with low-reflectance black (ES931ML/MIC) or white (ES931WML/MIC) finish. Additional interchangeable elements – omnidirectional (360°), cardioid (120°) and hypercardioid (100°) – are available separately.



Beyerdynamic:

The Classis GM 105 gooseneck microphone is fitted with a 3-pin male connector and suitable for different applications.

The microphone features a cardioid polar pattern with a high gain before feedback. The microphone is mounted on a 6 mm thick gooseneck and due to its matt black, non-glare surface it discreetly blends into the environment. In order to suppress wind or pop noise, there is a switchable low-cut filter on the circuit board. The microphone can be powered with any phantom power source supplying 12 to 48 V. The microphone is supplied with a foam wind shield.

Sennheiser:

TeamConnect Ceiling 2 with patented beamforming technology allows you to use the entire meeting room in a way that suits your personal meeting culture: During the meeting, participants can move freely and flexibly in the room, sit at the table or give presentations. Digital workflows are optimized with Sennheiser's Control Cockpit software.

The microphone can be easily controlled and monitored from anywhere in the corporate network. Power-over-Ethernet (PoE) makes integration of the

Sennheiser TeamConnect Ceiling 2

ceiling microphone very easy. An open media control protocol (API) allows you to make individual adjustments. TeamConnect Ceiling 2 uses the latest Audinate chip set to make the day-to-day business of IT managers and integrators even easier. The ceiling microphone is therefore fully compatible with the Dante Domain Manager and benefits from the numerous advantages.



Beyerdynamic GM 105



DPA Super cardioid Tabletop Microphones

LARGE FORMAT LED

Delta:

Delta's 4K Laser Video wall with Xtra Slim form factor (<638mm for 80") for the Control Room market offers brightness of this display solution, its 80-inch cubes offer 4K (3840 x 2160) resolution, excellent standards in brightness uniformity ($\geq 98\%$), wide viewing angle and true redundancy. Delta's Laser Video wall is IP6X certified and having a built-in intelligent system, Intelli-Sense, which performs real-time adjustments to ensure optimal performance in mission critical applications.



Delta 4K Laser Video wall

Delta's laser-light source DLP® video wall solution which has brightness of upto 4000 lumens, embeds the distributive vision control system (DVCS®) Generation 3 to allow control rooms to capture, distribute, control and display 4K and HD signals over an IP network for optimal operating integrity and efficiency.

Samsung:

Samsung QLED 8K Signage is supported by AI upscaling technology that creates true-to-life images and a revolutionary viewing experience. Samsung QLED 8K offers high resolution, four times higher than 4K UHD content and 16 times higher than FHD. With more than 33 million pixels, QLED 8K provides exceptional depth and detail, resulting in an immer-



Samsung QLED 8K Signage

sive viewing experience in any business environment. QLED's Quantum Processor 8K uses AI-powered machine learning to compare data from millions of images to reduce noise and refine details, delivering clearer pictures, improved resolution and a memorable viewing experience in detail. Samsung's QLED technology ensures the delivery of 100% color volume expression, based on over a billion colors. QLED 8K technology ensures rich and true-to-life images, meaning viewers will experience the purest color accuracy to-date in any environment.

Planar:

The Planar LookThru Transparent OLED Display makes it possible to create truly see-through installations with a virtually frameless glass design by utilizing cutting-



Planar LookThru Transparent OLED Display

edge Organic Light Emitting Diode (OLED) technology, eliminating the need for a backlight or enclosure. With 38 percent light transmissivity, the glass delivers all the benefits of interactive digital signage while allowing consumers to see the product or scenes behind the display. Planar

LookThru Transparent OLED Displays are ideal for retail merchandising, corporate displays, museum exhibits, award or trophy cases in education or corporate settings, tradeshow exhibits and a wide range of other architectural applications. It is compatible with processing solutions from Planar including the Clarity VCS Video Wall Processor for tiling applications or advanced source management. It comes with an Improved perceived contrast when compared to traditional large form cover glass, making the display more readable and impactful to the user - even in bright public venues.

Absen:

Absen's Mini-LED for rental display, Aries series (AX1.5) is packed with the latest in Integrated Matrix Device (IMD) and Common Cathode (CC) technologies, Absen's Mini-LED products, the Aries series 1.5mm and Control Room series 0.9mm is able to provide over 2.5 times the strength of traditional LED screens while consuming 20% less power. The Common Cathode technology independently supplies power to the RGB chip through high-precision voltage control, ensuring that each panel emits 20% less heat and as a result, consumes 20% less power, without compromising on brightness and color uniformity. This, in turn, prolongs the service life of the product. The narrowing of LED gap means smaller welding area and higher requirements



for welding crafts. Nevertheless, with IMD 4-in-1 pixel integration technology, repair becomes much easier due to the expanded operation area and improved PCB pad. It enables that repairing an Absen Aries 1.5mm LED will not be more difficult than a conventional PP2.5mm product.

Christie:

Delivering P3 color space, fully compli-

ant HDR-10 and patented software that keeps the wall calibrated at 97 percent or greater uniformity, Christie Micro-Tiles LED are suitable for broadcast sets, corporation venues, museums, retail, stadiums, arenas, and higher education. It includes a low profile ADA-compliant QuickMount system so displays can be created in any shape and size, including 90-degree inside/outside corners and both concave and convex curves. Individual tiles automatically detect and self-locate using the IR Neighbor Detection capability while the sensor-based AutoMatch feature automatically matches color and brightness to achieve >97% uniformity across the entire display for the entire operational lifetime. The MicroTiles LED WebUI is an intuitive, easy-to-use web-based control interface that can be accessed from any connected device. Designed with the user in-mind WebUI gives you total command of display set up, control and management.

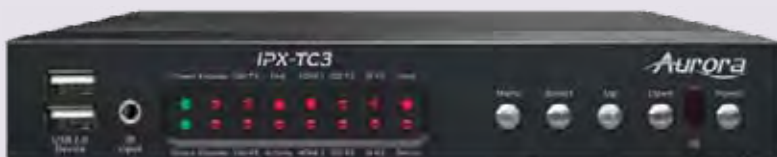


Christie MicroTiles LED

TRANSCIEVERS

Aurora:

The IPX-TC3 provides one of the most advanced IP Streaming solutions on the market utilizing Aurora's IPBaseT technology, which synergizes various IP/AV standards to work together as one. The IPX-



Aurora IPX-TC3

TC3 can be set up as either one to make installation, inventory, and troubleshooting easier. Another industry first is the option slot to add other IP capabilities, like ExtremeUSB (USB 2.0 over IP), ReAX IP control option or Dante audio, for a more complete, distributed system. Audio, video, data, and control can be sent securely to one or many units using off-the-shelf 10G Ethernet switches. When the IPX is set up to be a transmitter, the 2 HDMI inputs become a source switch and the HDMI output becomes a potential loop out. When

set up as a receiver, a user can select the local HDMI inputs or an IP source. Seamless switching of sources further enhances the presentation. Regardless of how the IPX is set up, the audio can be de-embedded at any locations, break away, and/or be sent to or received from a Dante enabled device. 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. To keep the system friendly, a customizable OSB and web server are available to be programmed as required. For RJ-45 LAN devices, the 1G Ethernet port allows full bandwidth end-to-end over the IPX 10G fiber or copper port.

Extron:

The DTP2 T 204, a four-input switcher with integrated DTP2 transmitter for sending HDMI and control up to 330 feet (100 meters) over a shielded CATx cable to an Extron DTP-enabled product. It supports computer and video resolutions up to 4K/60 at 4:4:4 chroma sampling. This HDCP 2.2-compliant switcher includes many features, such as EDID Minder, Key Minder, and selectable HDCP authorization. Ethernet control enables centralized system management. The half-rack width enclosure enables discreet placement within lecterns, beneath tables, or wherever

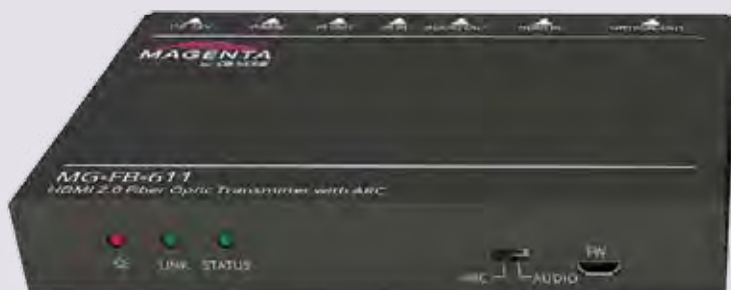


Extron DTP2 T 204

needed to meet application requirements. The DTP2 T 204 switcher provides reliable routing of HDMI video at data rates up to 18 Gbps, along with HDR, Deep Color up to 12-bit, 3D, and embedded HD lossless audio formats. For simplified installation, it can be remotely powered by a DTP2 enabled product over the twisted pair connection. It can also be configured to provide power to the connected DTP2 receiver product. DDC communication of EDID and HDCP is continuously maintained between source and display to ensure direct compatibility and optimal signal transmission between devices. The DTP2 T 204 switcher also features contact closure and tally outputs for integration with Extron Show Me cables.

TvONE:

The MG-FB-61x supports resolutions up to 4K60 4:4:4 with no compression and zero latency at distances up to 984ft (300m) using either single mode or multi-mode LC fiber. Support is also available for HDCP 2.2, HDR, bidirectional RS-232 and IR in addition to Audio Return Channel, CEC, and EDID pass through, making any installation simple. The Magenta fiber optic extender kit is completely secure and has industry leading RF and EMC immunity to



TvONE MG-FB-61x

ensure the highest levels of performance and signal integrity, while additionally providing the benefit of future proofing your installations.

Crestron:

The HD-TXC-101-C-E is a surface-mountable DM Lite transmitter designed to pair with a DM Lite receiver to form a point-to-point signal extender for HDMI, RS-232, and IR signals. The DM Lite family of products offers a very simple and versatile solution for extending HD, UHD, 2K, and



Crestron HD-TXC-101-C-E

4K video signals, with stereo or surround sound audio, over a single CAT5e (or better) cable. A cable length of up to 230 ft (70 m) is supported for HD 1080p, WUXGA, and 2K signals, or up to 130 ft (40 m) for UHD and 4K. In addition to video and audio, the HD-TXC-101-C-E supports the extension of RS-232 and IR control signals in either direction.

The USB power port supplies power only (500 mA maximum) and is suitable for general use to power USB powered devices. No USB data is passed through this connection.

It cannot be used to extend USB data, video, or audio signals.

The HD-TXC-101-C-E is designed to mount on a flat surface beneath a table, behind a credenza, or inside a podium. It can also be attached to a single rack rail in the back of an equipment cabinet. When powered

using the provided wall mount power pack, the HD-TXC-101-C-E also supplies power to the connected receiver over the link cable. Alternately, a power pack may be connected to the receiver, which in turn supplies power to the HD-TXC-101-C-E over the link cable.

Kramer:

675T is a HDMI fiber transmitter for ultra-reach extension of 4K60Hz (4:4:4) HDMI signals over multi-mode or single-mode fiber optic. 675T converts the HDMI input signal to an optical signal that is transmitted over a fiber optic cable

to a compatible receiver that converts it back to an HDMI signal.

HDMI fiber transmitter can be used for providing ultra-reach signals over either multi-mode or single-mode optical fiber infrastructures, using Kramer pluggable OSP SFP+ units. Near-zero latency video chroma sub-sampling conversion technology, is employed to auto-adapt above 10G HDMI signals to 10G optical

link signal data-rate.

It is HDCP 2.2 compliant and supports up to 18G (6G per channel) data rate, LPCM 7.1, Dolby



Kramer 675T

True HD, and DTS-HD as specified in HDMI 2.0.

It comes with an Intelligent EDID handling, processing and pass-through algorithm that ensures Plug and Play operation for HDMI source and display systems.

It has a Cost-Effective Maintenance as the Status LED indicators for power, source, sink and fiber link connections detection facilitate easy local troubleshooting.

The DigiTOOLS rack mountable fan-less enclosure enables side-by-side mounting of 3 units in a 1U rack space with the recommended rack adapter.

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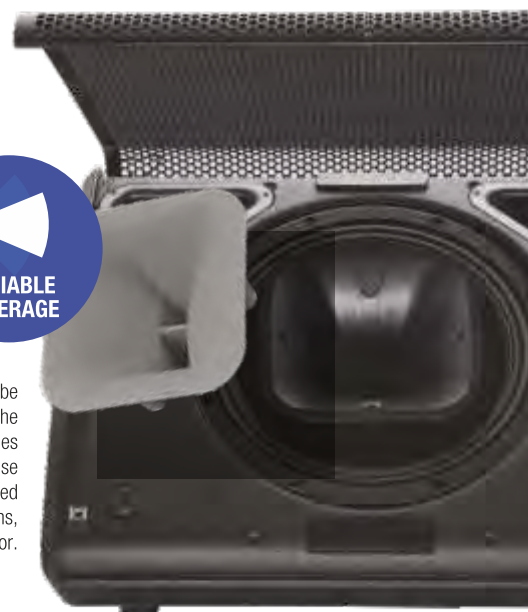
P+ series

THE POINT SOURCE LOUDSPEAKER PERFECTED

Building on NEXO's acclaimed expertise in compact, high output, point source loudspeakers, the P+ Series delivers pristine, full-range sound at even greater Sound Pressure Levels, along with unparalleled versatility, thanks to an ingenious system for varying HF coverage patterns.



Dispersion characteristics can be changed in seconds through the addition of optional magnetic flanges (P12) or horns (P8/P10) to optimise cabinets for a wide range of fixed installations and touring applications, including wedge monitor.



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NEW-AGE COLLABORATIVE TECHNOLOGY REVOLUTIONISES MEETING ROOM SYNERGIES

Meetings are an everyday occurrence for almost every company that aims to drive value for the business within a set timeline. It witnesses exchange of ideas and thoughts by different members in the form of figures, graphs and statistics but those companies which are still using a single tangled up cable to present the brainstorming ideas of their brilliant members are losing interest as well as investment.

To stop the meeting madness and foster unlimited potentials in the meeting room, AV Industry has come forward and responded to the queries of businesses that have grown accustomed to the immediacy with the power of interactivity and collaboration in a single device.

If the survey done by Dimensional Research is to be believed, 78% of users shared their frustrations with the existing boardroom set up, for which they need IT Team assistance from several times a week to several times a day. This data shows the frequency of challenges faced by the team and importantly indicated a cost to the business to address the issues. The research further drilled down that even those meeting spaces which are fitted with collaborative technology are facing the challenges with ease-to-use and familiarity. The key idea is meeting room technology should simply work, every time, with optimized numbers of participants attending the meeting.

Integrated Meeting Room Solutions

Being at the forefront of using the latest innovations, organizations feel a dire need of an integrated solution equipped with trailblazing technology, that facilitates their team members to collaborate wire-

lessly and work together across time and distance. Importantly, the device should work in tandem with their existing setup at a cost-effective budget. All in one, the solution should open an endless possibilities for the team members to collaborate in real time.

Collaborative & Interactive Display

To help businesses improve the efficiency of their meeting rooms with an integrated collaborative and interactive display solution, many providers entered and flooded the market with various meeting room display solutions.

Focusing on making the business relationships stronger with improved collaboration, maximized turnaround and increased productivity, Cybernetyx has developed socially and economically viable revolutionary meeting room solutions that convert any standard display or a TV into a collaborative digital canvas. It enables multi-user collaboration without passing or connecting any cables.

Deploying AI and Deep Learning technology in its wide range of innovative products, Cybernetyx focuses on delivering the most affordable, versatile and compact meeting room solutions, which could enhance the potential of boardroom manifold while increasing the meeting room productivity.

Combining the power of advanced technologies, wireless collaboration, multi-users touch points, ergonomic design, gliding writing experience, incredible colour accuracy, stunning resolutions and smart tools, Cybernetyx offers Airmind Thinker, which is a sleek device that can transform any display panel into a full-fledged touch interactive panel. The devices have in-built computer, seamless touch interactivity, screen recorder and companion app to

share the files without any hassle. The team can write, illustrate and annotate their ideas on the digital panel and share it with the members using QR Code.

Meeting room technologies are on the top priority of the digital workplace strategies and organizations are opting for it widely to enhance their everyday productivity with ever-increased ROI.

Ramya Chatterjee, CEO at Cybernetyx, is an achievement driven and high-performance leader, having a strong record of contributions in streamlining P&L functions, new business development, stimulating businesses, heightening productivity and improving systems & processes. He has gained hands-on experience across industries in technology product companies in Audio Visual (AV), Information & Communication Technology (ICT), IT Hardware / Software and Office Automation (OA) segments with vertical focus includes Education, Corporate, SME & Govt.

Ramya Chatterjee is a dynamic change-agent, skilled in positioning organizations to achieve operational excellence with strong ROI drive. Delivered improvements in process, market positioning, cost control, business model re-structuring and consistent growth. He is well organized with a track record that demonstrates self-motivation, entrepreneurial ability, creativity and initiative to achieve corporate goals. He is persuasive and influential professional with a strong verifiable career track for successfully propelling through start-ups/emerging businesses and managing end-to-end business with conceptualization & sound thought process and having outstanding success in building and maintaining relations with key partners/clients. He can be reached at ramya.chatterjee@cybernetyx.com

NEXO AND YAMAHA COOK UP A STORM AT MUMBAI'S TYPHOON SHELTER

Giving shelter to those hungry for an authentic Chinese cuisine is the Typhoon Shelter situated in the thriving Phoenix Mills compound in the swanky Lower Parel area of Mumbai. Designed on the concept of Hong Kong's typhoon shelters, the restaurant has become a popular hangout in the city.

The restaurant has been designed in a manner as to create an immersive experience of sitting in the middle of an approaching typhoon. The ceiling depicts thunder clouds, giving a sense of foreboding and curiosity at the same time. Subtle lighting, Chinese motifs, visual elements and thematic music, complete the entire

experience.

With a variety of spaces, including the main seating area, bar area and an exclusive private area, the Typhoon Shelter needed a multifunctional and diverse range of sound equipment for which they roped in Munro Acoustics. Kapil Thirwani and Prashant Nair from Munro Acoustics visited the area and decided that the NEXO GEO M620 would be a perfect fit for the restaurant.

The GEO M620 is a full-range unit for stand-alone, curved array or line array application. Extremely compact in size (191 x 373 x 260 mm), the M620 module punches well above its weight of less



7 units of the NEXO GEO M620 speakers are installed at the restaurant along with 3 units of the Nexo LS18 subs



than 10 kgs. "Our most important design objective was to achieve uncompromised sound quality, and multi-functionality for the system. The combination of high power and low visual impact makes the Geo M620 the perfect choice for the restaurant," says **Prashant Nair** from Munro acoustics India.

The M6 line array configuration consists of seven speakers with two speakers covering the bar area, two virtually invisible speakers on each side of the restaurant and one speaker at the back of the restaurant covering the private sitting area. Along with seven units of the NEXO GEO M620 speakers the restaurant has been installed with three units of the Nexo LS18 subs. Clever cabinet design empowers the LS18 sub bass module to bring new levels of versatility to NEXO GEO products. Completing the sound experience are three units of the high efficiency NEXO DTD amplifiers.

In addition to the authentic continental food, patrons visiting the restaurant are also treated to an immersive sound experience like none other, courtesy the YAMAHA and NEXO sound systems. Besides integrating the systems, Munro Acoustics has also provided training and crucial after sales support to the restaurant is being taken care of by YAMAHA and Munro Acoustics jointly.

ICONIC MAHAKAVI KALIDAS KALAMANDIR AUDITORIUM UPGRADES TO BOSE PROFESSIONAL ROOMMATCH SYSTEM

"The addition of the Bose Professional RoomMatch system has dramatically improved the overall sound experience here. It has always been our mission to provide

the city with a space that allows audiences the chance to immerse themselves into the on-stage performance, and now we're finally able to meet this mission, with the

installation of the new Bose RoomMatch PA system. The system sounds immaculate, just as the first time we heard it, and now we're treated to the highest possible quality of sound on a daily basis. We couldn't be more pleased with our decision to partner with Bose!" ... words from a high-ranking official at Nashik's iconic Mahakavi Kalidas Kalamandir sum the drastic improvement in venue's soundscape following the inclusion of their new Bose Professional RoomMatch System.

An undertaking of the Nashik Municipal Corporation, the Mahakavi Kalidas Kalamandir has proudly stood as an iconic structure in the calm and peaceful city of Nashik for over four decades. Often regarded as one of the few genuine venues for audiences to enjoy authentic Marathi theatre and dramas, the auditorium has served as a beacon of excellence when it comes to stage performances; barring the fact that it sported a technological infrastructure that hadn't been updated for decades, until recently. With an extensive refurbishment fulfilled by the management, the venue now stands as a completely overhauled acoustically designed theatre with a seating capacity of over 1250 heads in an exclusive circular tiered type seating arrangement that affords it the look and feel of a majestic concert hall. The overhaul also involved a comprehensive update of the old sound system; which was swiftly upgraded to an all new and comprehensive RoomMatch system from Bose Professional System which now graces the venue with enhanced sound performance and increased intelligibility that capably reinforces everything from intense theatrical performances to immersive musical delights.

Vibhor Khanna – Country Manager SAA-RC, Bose Professional – is pleased that the Mahakavi Kalidas Kalamandir chose Bose Professional as their preferred sound partner, as he comments "Associating with an iconic establishment like the Mahakavi Kalidas Kalamandir is a matter of great pride for us; and to have positive feedback from the management about the performance of their new Bose RoomMatch system is quite the compliment. Bose has always



The newly overhauled system at the auditorium consists of L/R clusters comprising RM12040 modules with RM9020 modules deployed as the FOH solution to reproduce crystal clear high and mid-range fidelity, while multiple units of the RMS215 subwoofers provide crucial low-frequency impact

stood at the fore in creating innovative audio products and technologies that empower users with consistent world-class sound experience; and our suite of RoomMatch products is testimony to this fact. The Mahakavi Kalidas Kalamandir's decision to outfit the auditorium with a top-of-the-line Bose RoomMatch system demonstrates a commendable dedication to providing their audience with the most immersive performance environment; and it's heartening to know how everyone's enjoying the sound experience."

The newly overhauled system at the auditorium consists of L/R clusters comprising RM12040 modules with RM9020 modules deployed as the FOH solution to reproduce crystal clear high and mid-range fidelity, while multiple units of the RMS215 subwoofers provide crucial low-frequency impact. Products from Bose Professional's acclaimed RoomMatch Utility series have also been installed, with multiple units of the RMU 105 loudspeakers deployed as front fills and multiple units of the RMU 206 loudspeakers deployed as fills covering the balcony area. The entire system is powered through Bose's acclaimed PowerMatch PM8500N amplifiers, with processing sorted through the efficient ControlSpace ESP-4120 engineered sound processor. Furthermore, the venue houses two dedicated green rooms along with a central control room, all of which



Vibhor Khanna, Country Manager, Bose Professional India

have been outfitted with Bose Professional products with the DS16S loudspeakers powered through IZA 190HZ amplifiers rounding off the system.

Mumbai-based AV systems integrator AudioTechnik have designed and installed the Bose Professional system at Mahakavi Kalidas Kalamandir, and inputs from Rajesh Patil – director of AudioTechnik – reveals how he and his team went about commissioning the system, as he shares, "Our initial interactions with the client revealed how the venue struggled with good quality sound while using the former system; and the fact that they now desired a new system that would not

only cover the room and increase speech intelligibility, but also be able to accommodate high-energy music. Following our interactions with the client and an extensive analysis of the venue, we realized that RoomMatch arrays were the right option as we needed a dual-hang line array product that let us control patterns vertically and horizontally to put the right coverage in the right areas of the room. The progressive nature of the RoomMatch arrays allowed throw sound deep into the balcony without blowing the people out of their seats right in the front of the room; and the RMU speakers provided just the perfect fills solution in terms of maintaining the same high-quality Bose sonic signature. The system in its entirety provides a great front-to-back coverage ratio. Plus, using Modeler and Auditorer let us get to the point where we were assured about not only how the system sounds, but also the exact dispersion and coverage pattern. This afforded us the precision to derive great quality speech intelligibility and unparalleled music support. The system really does all of that, and more. And now after a good amount of time with the system being in use, the outcome has been all that the management had hoped for, and more. They are very impressed so far, and the crowd has responded very positively. For us, there could be no better compliment!"

FAITH ARENA INSTALLS MEYER SOUND

Faith Arena at Rangpuri, Mahipalpur recently updated their sound system with Meyer Sound. The Church premise was updated with **4x ULTRA-X40 point source loudspeakers**, **4x 750-LFC very compact low-frequency control elements**, and flying brackets for the ULTRA-X40 loudspeakers with the help of Sun Infonet who was also involved in the PA tuning.

"The Church Auditorium is actually a metal wall warehouse, previously used by a logistics company. At 30ft high, with its structural limitations, the RTA was well over 600ms. Therefore, the main reason for opting for Meyer Sound is its low vertical dispersion angle along with a broad

Continued on page 00



ALLWAVE AV EXPANDS COUNTRYWIDE



*Kuldip Kamat, Managing Director,
Allwave AV Systems*

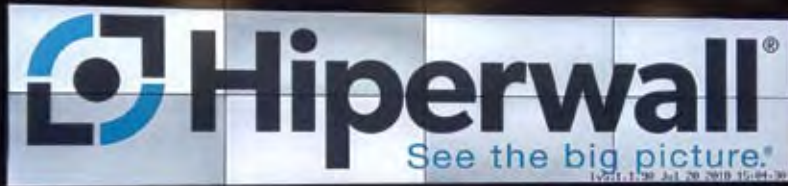
ALLWave is a familiar name in global AV community. With 500+ clients, 2800+ projects pan-India, 22+ years of quality projects, 90+ trained professionals, ALLWave has made a mark for itself as an industry-leading Systems Integrator delivering custom-built & innovative solutions to a clientele encompassing corporate enterprises, Residential AV, auditoriums, educational institutions, and training centers across India. Through its offices in Mumbai, Pune, Bangalore, Hyderabad, Chennai, NCR and Kolkata AllWave works across verticals of Design-Supply-Install-Maintain (D-S-I-M) to offer solutions from a conceptual stage to commissioning and after sales support. AV-ICN caught up with the dynamic Kuldip Kamat, Managing Director of AllWave AV Systems and the force behind the company, to know more about the ALLWave trajectory in the Indian AV industry graph.

Tell us a little about yourself and your journey in the Indian AV industry

Allwave AV is a 22+ year-old company, regarded as one of the most premier and reliable companies in the domain of AV and ICT. My journey started in the AV industry in the year 2007 when I returned back from the US with a master's degree in Electrical system engineering as well as a stint as the advisory board company at Washington DC where I had my first real work experience in the corporate world. In the last 12 years, as a company, we have diversified to a range of different solutions keeping up with the pace of the industry and have achieved growth on the profit and revenue front as well as on the team strength & expertise. Today, our team is able to cater to projects PAN India.



Allwave AV equipped the meetings rooms at Morningstar with Zoom calls for business to communicate with far end users



At Yes Bank Allwave AV installed A Videowall at pride room and reception area and Hiperwall in all other training rooms followed by cue controller

Allwave comes with almost 22 years of experience and over 2500 projects.

What have been your biggest/most successful projects yet?

We have been fortunate enough to work on a variety of projects including many renewed auditoriums, boardrooms, training rooms, video conference suites. And now more increasing in the space of what we like to call as Software-Defined AV. We work with a large number of command centers, auditoriums (private and state-owned), Training institutions, etc. Some of our known multiple projects are IIT Bombay, UBS, Citigroup, ANZ, etc. Our total project strength to date is over 2800+ projects across India. We have successfully delivered AV solutions to over 400+ clients across India ranging from many SME and fast-growing companies to very large multinational organizations.

Brief us about some of Allwave's major projects in India in the recent past and which other big projects do you have in the pipeline?

We have some very exciting projects in the pipeline with numerous large Multi-national companies relying on us for their global deployments (India Projects).

What major protocols does All-Wave follow when starting a new project?

We strictly abide by the AVIXA Standards for design and implementation. We are also ISO Certified and all our projects undergo rigorous in-house checks to ensure quality and consistency across all our sites. We also emphasize more on training documentation and after-sales support. This is handled by our customer success team that relies a lot on customer feedback as that is foundational for our continued success.

How do you maintain the international standard for integration in all your projects?

Avixa has been a great platform for us. We do a lot of trainings for our staff, team members. Upgrading our team's knowledge to the latest standards and technology helps us stay ahead of the crowd.

What are some of the unique or different types of integration technologies that you are utilizing in your projects?

We are doing a lot of projects in VR/AR and many other software solutions including room scheduling, software-driven

AV as well as immersive info presence solutions for applications such as command centers, experience centers, digital signage, and collaborative learning. A lot of these ideas are planted by our existing customers and they also help us stay in touch with global trends by sharing some of their experiences of global deployment at their offices overseas.

What differentiates Allwave's services from other integrators? What is Allwave's USP?

Our tight commitment and focus towards our deliverables are what differentiates us. We have put a lot of emphasis on standards and a lot of uniqueness in our design is a second thing and important USP as well, thirdly our after-sales support is the best across India. We have many customers whom we have retained for over 20+ years.

What is the team strength in All-Wave AV and how many in your team are certified, professionals?

We have a team strength of 90+ and amongst knowledge workers, all of them are certified by Avixa and respective OEM's. In the technical field, we have routine training as well as (in house, OEM, soft skills) training to ensure that the clients get the best and most professional service for their Audio Visual and ICT needs.

How has the AV industry as a whole, evolved in this decade? And what are some key or noteworthy developments in 2019?

The AV industry has developed tremendously. Some of the notable features are soft codec reliance on asset management as well as faster deployments. Lots of projects demand global standards to be followed and we see a big thrust in following these standards in terms of manufacturers, process implementation as well as in after-sales support and increase in refresh projects as well.

What do you think of the quality standard of AV deployment in India in general?

This is a great question and I think about this a lot. My answers are based on what I hear from customers, therefore, there's no one right answer. The AV in-

dustry is very fragmented with only a few top 20 players who are actually making an effort to inculcate international standards in the AV business.

I personally hope that this will change and a lot of gravitas is given to the importance of quality of system integrator who can get the requirements correct, design it right, install it successfully with a right programming user interface, etc and provide very good training and documentation and top it up very good after-sales service.

This requirement here is to stay up dressed in the industry terms and trends. This is a tall task but we believe that only the people who take conscious efforts in all of these will actually be able to make a mark on the industry.

What are the new trends or opportunities that the AV industry can look forward to in 2020?

I see a lot of good technology coming up. We will see a platitude of solutions right from more 4k - 8k displays, TV-LED, more collaborative environments, and more info presence solutions. We will also see a more simplified approach to deployment. We might also see unique aspects of project financing and delivery.

You have clients mainly in corporate / enterprise and a few in the hospitality sector. Are you targeting any other sector like education etc.?



Allwave AV Deployed 55" and 65" samsung displays and logitech meetup conference solution for meeting rooms at F5 Networks.

At this point, we are agnostic to type of clients, we do have a lot more at the enterprise space but we do have several clients in the Indian PSU, Indian Regulatory bodies, Education institutes as well as very high-end private residential (Penthouses, villas, etc) for us the attitude of the client matters the most than the brand, we also have the opportunity to work with very

good fast-moving startups and we have learned a lot from companies that are even smaller than us.

Any plans for expanding overseas?

Yes, we do have plans of expanding overseas however plans are currently tightly wrapped because we are still at the planning stage.



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in f t y p i

QUALIA RESTAURANT IMPROVES CUSTOMER EXPERIENCE WITH YAMAHA AND NEXO

Nestled in the heart of Mumbai's upper class Lower Parel area is Qualia, a popular fine dining restaurant, founded by renowned Indian chef, Rahul Atrekar. With an elegant black and gold-themed interior, the restaurant's clientele is mainly the local elite who go there for the sophisticated ambience and great food.

Qualia blends modern cooking with local Indian ingredients and age-old techniques to produce exquisitely-flavoured dishes.

Perfectly complementing the exceptional food and exquisite decor is a high-quality Yamaha and NEXO audio system. The subtle lighting, open kitchen and bar space is enhanced by high quality acoustics and background music, designed by Kapil Thirwani of Munro Acoustics. Understanding the restaurant's discerning visitor demographic, Thirwani has designed an audio environment that truly enhances the dining experience.

To ensure exceptional sound at the venue, while also choosing a cost-effective solution, Thirwani opted for Yamaha and NEXO products.

The main loudspeaker system comprises seven NEXO ID24, powered by three DTDAMP units. Designed to satisfy a wide range of applications, the ID24 was the ideal choice because of its ability to be mounted both



The loudspeakers used in the main area are powered by Nexo DTDAMP and PX5 Amplifiers



The main loudspeaker system comprises seven NEXO ID24, and is complemented by two pairs of Yamaha CXS15 XLF subwoofers

vertically and horizontally, its high-quality performance and a sleek, smart design that fit well with the restaurant's interior.

The loudspeakers are complemented by two pairs of Yamaha CXS15 XLF subwoofers, powered by PX5 amplifiers. Packed with features including extended low frequencies, outstanding clarity and best in class 133dB SPL performance, the CXS18 XLF's lightweight yet rugged design and the PX5's intelligent processing makes them a great solution for high end installations. The system's inputs are managed by a compact Yamaha MG10 mixer, installed in the control rack with the amplifiers.

Kapil Thirwani supervised the installation, as well as provided training and after-sales support to the restaurant's staff. "Thanks to the excellent quality of Yamaha and NEXO products, I believe diners at Qualia enjoy one of the best audio experiences in the entire city," he says.



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BIAMP BEAMTRACKING TECHNOLOGY RECEIVES U.S. PATENT

Biamp recently announced that it has been awarded a patent from the U.S. Patent and Trademark Office for its Beamtracking technology used in its award-winning Parl  family of ceiling, tabletop, and pendant microphones. The innovative patented technology, combined with Biamp's advanced signal processing algorithms, allows the microphones to track and mix voices intelligently from around a meeting room, enabling communications of unparalleled clarity.

"Our Parl  microphones are empowered by this patented Beamtracking technology," said **Joe Andrulis**, Executive Vice President of Corporate Development for Biamp. "Beamtracking enables us to deliver truly extraordinary meeting room experiences by allowing Parl  microphones to provide participants with crystal clear sound whether they are in the room or collaborating remotely."

The patent covers use of an array of



microphone elements to create virtual microphone beams, which track human voices in a space and follows the talker when they change location within the room. The gain applied to each microphone beam is automatically adjusted, compensating as the presenter moves

closer to or farther from a mic. For example, if they turn to write on a whiteboard or use an interactive display, it ensures that remote listeners hear other meeting participants at a constant, uniform volume without the volume peaks and fades commonly experienced with microphones not using this approach.

Biamp's combination of advanced technologies, elegant industrial design, and integration of the entire audio signal path — from microphone to speaker — onto a single cable type ensures that Biamp conference rooms sound better, look better, and are easier to install than any other system.

VUWALL DEBUTS NEW CONTROLVU TOUCH PANELS

ALSO DEMONSTRATES TRX CENTRALIZED MULTIVIDEO WALL MANAGEMENT PLATFORM AMONGST OTHER PRODUCTS AT ISE

VuWall recently showcased its intelligent video wall and visualization solutions that allow operators and managers to "control what they see" at ISE 2020. The company debuted its new ControlVu touch panel and showcased the new security

features, capabilities, and flexibility of the powerful TRx centralized multivideo wall management platform; VuScape video wall controllers with KVM support; and VuStream encoders and decoders.

"Control rooms are not only becoming

a necessity for organizations of all sizes and missions, operators are also requiring on-demand access to a robust array of AV and IT sources," said **Paul Vander Plaetse**, CEO at VuWall.

VuWall demonstrated the new security capabilities available within the innovative TRx 2.5 centralized management solution for configuring and operating multiple video walls, multiviewers, encoders, and decoders.

VuWall's new 15-inch ControlVu touch panel was showcased, alongside the 10-inch model already in the market. The newly enhanced VuScape is a high-performance video wall controller ideal for control rooms, collaboration rooms, and corporate signage. The latest version boasts collaboration and KVM support in addition to its existing video wall control functionality. With VuScape, users can control and distribute all content sources to any display on the network with utmost flexibility.



CONFERENCE SOLUTIONS

Five of the Most Popular Conferencing Solutions in the Market

SHURE - MICROFLEX

The Microflex Complete Wireless system combines a fully-featured discussion system with wireless freedom for government, corporate, or educational facilities. It speeds setup in dynamic meeting spaces or at temporary meetings in hotels and conference centers. With no cable limitations, Microflex Complete Wireless is ideal for use in rooms with flexible seating or architectural significance. Its Automatic Interference Detection and Avoidance technology delivers reliable RF transmission even in the most congested RF environments, and robust AES-128 audio encryption provides enhanced privacy. Each wireless conferencing unit is powered by a smart Lithium-Ion rechargeable battery, and a single access point can control up to 125 wireless units without additional software or licenses. It also allows you to program ID cards with meeting participant's name for use with MXC and MXCW conference systems. It is also compatible with Shure Web Device Discovery that displays all Shure devices featuring embedded web servers on the same network as the computer.



KONFTEL - 300IP



The Konftel 300IP works for both cloud-based and traditional IP platforms, resulting in effective, top-quality distance meetings. Konftel's OmniSound audio technology delivers crystal-clear, natural HD audio.

It is a proper conference telephone with built-in bridging function that handles five-way calls, which reduces the need for external bridging services. The conference guide makes it easy to call up groups at the touch of a button. Another popular feature of the Konftel 300IP is recording onto an SD memory card. The Konftel 300IP fits everything from huddle rooms to large auditoriums. It includes the option to connect a pair of expansion microphones to increase the pickup range and cover up to 20 people in a room. You can also connect a wireless headset if you're lecturing. If you use the PA box to connect to a PA system, there is no limit to the size of the meeting. The Konftel 300IP can be configured and updated via the web interface or the company's own provisioning server.

LIFESIZE - PHONE HD

LifeSize Phone HD lets you make video and audio calls with unrivaled audio quality, search the directory, share your screen and control the video pan/tilt/zoom right from the customizable touchscreen interface of the LifeSize Phone HD. It is engineered with 360° beam-forming microphone array to steer focus to the active speaker. You can also customize the look and layout to meet your needs and style. It also helps reduce tabletop clutter and manage Lifesize audio, web and video calls from one highly intuitive device. Its large, vivid display provides rapid access to the call options you need when you need them. LifeSize Phone HD allows you to list upcoming meetings and configure one-click joining through Microsoft and Google calendar services. It comes with a Powerful rare-earth magnet loudspeaker driver and a large, acoustically suspended speaker enclosure. It is designed to reduce or eliminate audible radio frequency interference when mobile devices are placed adjacent to LifeSize Phone HD.



LOGITECH - TAP



Logitech Room Solutions for Microsoft Teams is available in small, medium, and large configurations. These pre-configured systems include a mini PC, Logitech conference cam with RightSense technologies, PC mount with cable retention, and the Logitech Tap touch controller. With a sleek design, silent operation, and motion sensor for always-on readiness, Tap brings ease and convenience to Microsoft Teams. With 10 meters of reach, the plenum-rated Logitech Strong USB cable

lets you locate Tap near participants for convenient operation while installing the host PC in a cabinet, beneath a table, or behind a display. The large configuration upgrades to Rally Plus with two speakers for clear audio throughout the room. The Dual mic pods expand coverage for up to 16 people, and the system supports up to 7 mic pods for rooms with up to 46 seats. The Logitech Tap touch controller connects to the meeting room PC via Logitech Strong USB, a plenum-rated cable that offers 10 meters (32.8 feet) of reach.

POLYCOM - POLY STUDIO X

This all-in-one video conference system delivers a 360° video camera experience and active speaker tracking with Skype for Business calls. The CX5100 provides remote participants with 1080p HD active-speaker video camera that automatically tracks the flow of conversation. It also adds a unique 360-degree panoramic* view of the conference room. Polycom's legendary HD Voice technology, featuring a dynamic audio range of 160Hz to 22,000Hz offers clear audio. Users can easily connect a USB cable to their laptop and use the UC client they already know—no remote required. It comes with a simple USB plug-and-play functionality that requires little or no training. It has 360° HD 1080p USB conference camera with active speaker detection and a 6m (20 foot) microphone pickup range.



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NX AUDIO LAUNCHES UMD40

NX Audio's new UMD40 professional digital wireless UHF microphone system boasts best-in-class aural reproduction and speech intelligibility, making it ideal for those who desire a high-performance and reliable multi-channel system that's also light on the pocket. It is ideal for PA Applications, stage and auditoriums, seminar halls, places of worship, recreation centres and more.

Allowing users unmitigated freedom to choose from over 50 scannable frequencies while flawlessly working over a mighty impressive 350ft operating range; the UMD40 wireless system takes frequency agility to a whole new level, delivering world-class power with heart-warming simplicity and decisive safety. The rugged metal body UMD40 handheld transmitters, which feature an on/off/mute switch and a sturdy wire-mesh cap to protect the microphone element, come with dynamic cardioid microphone capsule that's been designed to adapt to a wide range of input sound pressures, and yet offer sublime speech and vocal reproduction, with the assurance of maximum gain before feedback.

The system's unique PLL control system (Phase Locked Loop) technology allows for the simultaneous operation of 16 differ-



UMD40 professional digital wireless UHF microphone system

ent operating frequencies while ensuring freedom from RF interference and assuring outstanding signal reliability by regulating high output power that allows for stable radio signal transmission.

Ever-dependable SMT circuitry affords users the confidence of complete safety in terms of performance, with the assurance of no interference, drop-outs, or compromised audio quality, as the receiver finds the clearest channel within a matter of mere seconds. Separate volume controls for each channel gives users greater control over their sound, whereas the presence of a bright LED screen allows for seamless toggle through sequential menus that affords simple and easy setting up

options. Plus, with the receiver unit also comprised of heavy-duty metal, users are further treated to easy and hassle-free physical connectivity options thanks to the presence of balanced XLR along with unbalanced 1/4" jack connectors.

Musicians, performers, and sound engineers who have tested the new NX Audio UMD40 system have hailed it as a comprehensive smart wireless solution that combines outstanding sound, simple set-up, and roadworthy construction; as it eliminates the hassle and headache associated with many other wireless systems, and allows performers and orators to focus on the message that they wish to get across to the audience.

BIAMP PROMOTES NICLAS BRATTBERG TO GM POSITION

Biamp announced the promotion of **Niclas Brattberg** to the position of General Manager for Middle East and Asia-Pacific. This new position will increase local presence and support for Biamp's distribution partners and clients in these regions. Brattberg brings 25+ years of experience leading international sales organizations to this new role and will oversee all elements of Biamp's go-to-market strategy and execution in the Middle East and Asia.

"Biamp continues to invest heavily in international growth by hiring talented people and opening local offices in select

markets," said **Rashid Skaf**, President, CEO and Co-chairman at Biamp. "We opened a new office in India last year and will open new offices in Dubai and Singapore in 2020."

"With our recent acquisitions and expanded product lines, I am excited to broaden Biamp's impact by aggressively pursuing business in all target geographies



Niclas Brattberg, General Manager, Biamp

and vertical AV markets, which includes corporate, food service and hospitality, retail, large venues, education, religion, sports and leisure, and outdoor applications," said Brattberg.

Prior to joining Biamp, Brattberg ran international market development and sales for AMX and Harman for the Middle East and Asia-Pacific.

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RTI TWO-WAY DRIVER NOW AVAILABLE FOR REVOK MULTIUSER SYSTEM

RTI has announced the availability of a new two-way driver for the Revok Multiuser System. With the driver, dealers are now able to meet the demand for intuitive operation of the high-end multiroom audio solution via RTI's lineup of sleek handheld remotes, advanced touchpanel controllers, and the RTiPanel app for mobile devices.

The Revok Multiuser System provides users with access to innumerable internet radio and streaming services, and allows them to incorporate music servers, CD players, and even televisions as sources. Unlike conventional multiroom audio solutions, the system is built on a user-centric operating concept. The Revok Multiuser System is frequently being used in private homes as well as in hotels worldwide.

"Many Revok dealers and their customers have been requesting a sleek, modern remote for control over our Multiuser System," said **Jürgen Imandt**, Marketing Manager of the Revok Group. "The tight integration with the Multiuser System allows any change in the system to be automatically applied to the other RTI



controllers in the home."

By incorporating RTI handheld remotes into the Multiuser System, users can browse their favorites and adjust the audio source on a completely customizable touchscreen, while enjoying the convenience

of soft-touch buttons for access to commonly used functions, such as volume control. The controllers' integrated grip sensors keep the devices awake during use, while an accelerometer provides instant-on activation.

BAIRD CAPITAL ACQUIRES MAJORITY STAKE IN VEGA GLOBAL

Baird Capital has announced that it has acquired a majority stake in the Vega Global Group.

Vega is a market-leading end-to-end provider of audio visual and video col-

laboration solutions for organizations of all types throughout the Asia Pacific region. Vega's services enable global communications for the modern workplace, facilitating meaningful collaboration to enhance productivity for its enterprise clients. The Baird relationship with Vega better positions the Company for growing all facets

of the professional audio-visual market and meeting the demands of enterprise clients seeking global standards and delivery platforms.

Headquartered in Hong Kong, Vega is

one of the largest System Integrator and Managed Service Providers for Audio-visual IT solutions and Video Conferencing and Collaboration technologies in Asia with over 600 employees in 14 offices across 11 countries throughout the region. The Company offers a comprehensive range of services and technologies, capable of

providing one-stop solution for all audio-video requirements of customers. Since establishment in 1986, Vega has completed more than 100,000 AV and video collaboration deployments for over 20,000 clients.

"We are proud to partner with Baird Capital and its experienced management team," said **Andy Tse**, partner at Baird Capital. "Laurie has built a fantastic business with a reputation for excellence in its offerings, people and growth plan, and we look forward to working alongside them in the future."

"We are extremely excited to partner with Baird, a highly respected firm that is aligned with Vega's vision of growth into the future and the strategic plan to get us there," said **Laurie Chow**, Vega's CEO and Founder, "Together with Baird, our potential for accelerated growth to meet the needs of tomorrow's enterprise clients is limitless."



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BOSE PROFESSIONAL IMPRESSES AV-SI COMMUNITY ACROSS INDIA WITH MULTI-CITY INSTALLED SOUND EXPANSION TOUR

Bose Professional – the undisputed leader in innovative professional audio solutions and technologies – recently concluded an elaborate multi-city tour in India to familiarize the country's top AV and SI professionals with the brand's Installed Sound Expansion initiative that comprises an extended selection of products designed to work flawlessly as a scalable and flexible cohesive system that assures superlative listening experiences for application spaces like hotels, higher education campuses, retail spaces, entertainment venues, places of worship, indoor and outdoor venues, and more.

Aligned with Bose Professional's global business strategy; the Installed Sound Expansion tour, which was commissioned by the brand's Indian subsidiary in partnership with its regional distributors, hosted a well-executed commutual schedule of meetings, discussions, trainings, workshops and socializing between the brand's leadership team and the attendees. The audience profile comprised distributors, dealers, channel-partners, consultants, system integrators and end users; with an average turnout of over 100 individuals from over 50 companies in each city.

Vibhor Khanna, Country Manager – SAARC, Bose Professional, shared "With Installed Sound Expansion, Bose Professional has revolutionized the dynamic for system designers, SI and installers by proving to be a single point of contact for high-

performance complete professional audio systems and solutions that empowers them to create aesthetically pliable tailored sound systems with Bose Professional's trademark sound signature for a greater variety of spaces in in hospitality, retail, entertainment, education, and enterprise workspaces. And I'm glad we were able to demonstrate the extended capabilities of Installed Sound Expansion to the Indian market at large through this tour."

The tour kicked off in Chennai at the Taj Connemara on 3rd January 2020 where the brand partnered with Visionhire; while the second event in the series was hosted at The Park Hotel in Bangalore on 10th January 2020. Shortly thereafter, Bose Professional collaborated with Cubix Micro Systems to host the third and fourth events of the tour in Mumbai and Pune respectively, with the session in Mumbai conducted



on 16th January 2020 at Melhua The Fern while the one in Pune took place at The Crowne Plaza on 24th January 2020. The tour culminated in Kolkata on 31st January at the Taj Vivanta as Bose Professional partnered with Hi-Tech Audio Systems for the event.

Optimum audience engagement was maintained through a flurry of short informative sessions that detailed the nuances of Installed Sound Expansion's various new technologies and their unparalleled value in real-world application scenarios. The commutual schedule also emphasized live demonstrations of Bose' revolutionary technologies like the DesignMax (Surface and Ceiling variants) and Panaray MSA12X, along with passive displays and informative sessions on the EdgeMax and Arena Match + Arena Match Utility loudspeakers.



ers, PowerSpace amplifiers, ControlCenter zone controllers and ControlSpace range of products for enterprise. The aforementioned series of products were introduced

in 2019 as part of a massive influx of leading-edge install-specific technologies from Bose that spanned over 50 new products aimed at delivering enhanced audio expe-

riences across application segments.

Vibhor notes the rewarding consequences that the tour has already borne, as he comments "Partners who attended the events in Chennai, Bangalore, Mumbai, Pune and Kolkata have expressed their excitement about the Installed Sound Expansion line of products, citing the possibility to offer easy-to-operate and flexible high quality comprehensive Bose Professional systems for a wider range of application spaces – the likes of which were previously inaccessible. Their feedback has inspired us with confidence to look forward to an exciting time of business growth for Bose in India, with the promise of continuing to offer the market with revolutionary technologies and solutions that are high on performance and quality".

The company notes that plans are under-way to commission the final event of the tour in New-Delhi at a soon-to-be-announced time and location.

HARMAN PROFESSIONAL SOLUTIONS ANNOUNCES ADITYA TODI AS SENIOR DIRECTOR – SALES AND MARKETING

With close to 5 years of experience in the Professional Solutions division, Todi brings insightful experience in business and finance. HARMAN Professional Solutions, the global leader in audio, video, lighting, and control systems, announced the appointment of **Aditya Todi** as Senior Director – Sales and Marketing, Professional Solutions, India and SAARC. In this role, Todi will be responsible for overseeing the division's business and functional aspects in India. Until recently, Aditya was heading the finance function at HARMAN India. Prior to HARMAN, he has worked



Aditya Todi, Senior Director - Sales and Marketing Pro Division Harman

with various multinationals including Cisco and Wipro.

"I am immensely privileged to accept the role of Senior Director – Sales and Marketing, and do so with great humility and awareness of the tremendous responsibility of carrying forward HARMAN's iconic brands in India," said Aditya Todi, Senior Director – Sales and Marketing, Professional Solutions, India and SAARC. "I hope to usher in a new chapter for HARMAN Professional Solutions and commit to a robust roadmap that caters to the needs of our diverse set of consumers."

FAITH ARENA INSTALLS MEYER...

continued from pg 31

horizontal dispersion, minimizing the reflected sound as much as possible while giving a richer direct sound experience. The other things among were to prevent metal walls and ceilings from rattling due to low frequencies, yet have sufficient amount of lows to feel the sound. Various brands like L'Acoustics, Fohhn Audio, KV2 etc., were considered before finalizing on Meyer," said Samarth Shukla, Proprietor,

Ample Connections, who was responsible for the set up. He further added, "Church sound requires the finesse and quality of being a real life experience rather than just amplified sound, this is exactly what Meyer Sound does."

The client's requirement was a constraint on budget, Samarth informed, and the initial take of the client was another sound system, although the client's desire was to have an extraordinary sound.

After a lot of deliberation, quotations and demos from various brands, it was clear that Meyer Sound would be a steal deal to have a high-end audio setup at a great price, thanks to Tanmay Masurkar and his team at Sun Infonet.

Ankit Sajwan, Senior Pastor of FOLJ Church & the Church Visionary for Faith Arena said, "The sound of the Meyer equipment is unreal and way beyond expectations."

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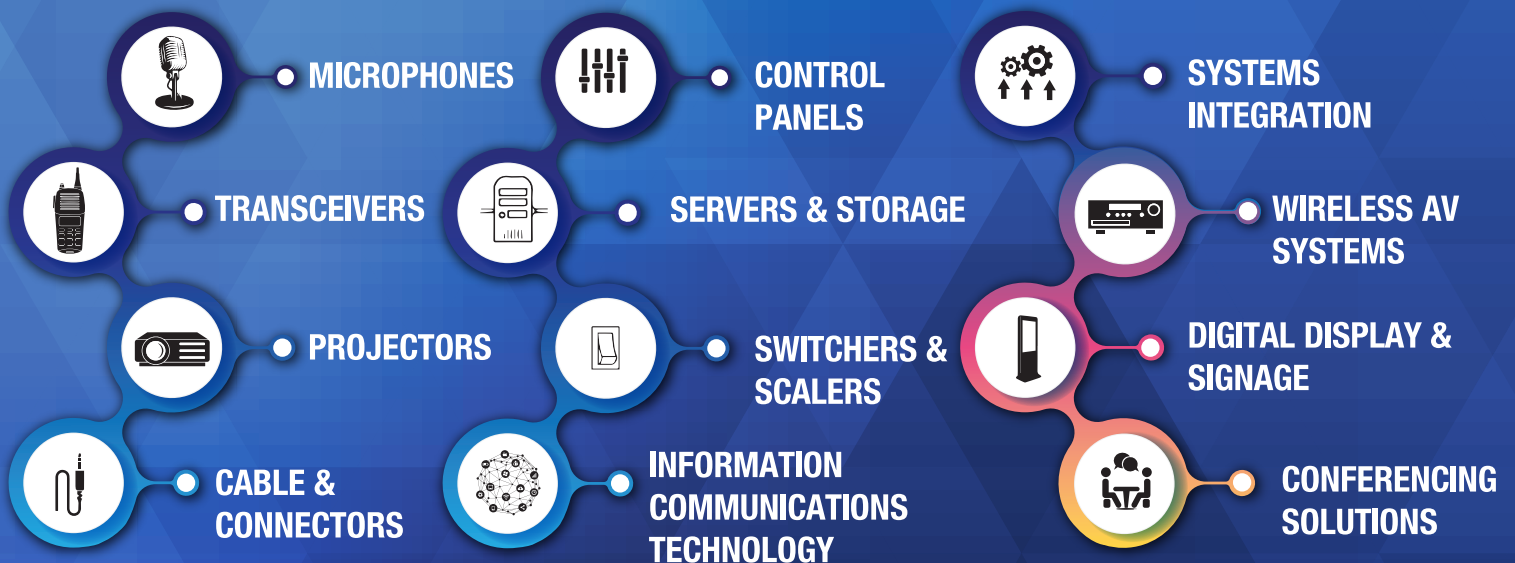
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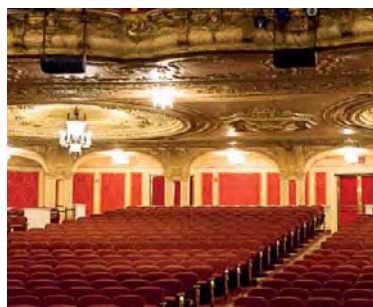
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