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AV INTEGRATION COMMUNICATION NETWORKING

DIGITAL CAFETERIA

Creating Rich Employee Experiences

KULDIP KAMAT, MD – Allwave AV Systems



EULOGY

RANJIT SINGH

AV-ICN CAVS Instructor

Man with a Mission

HEMANT AGARWAL

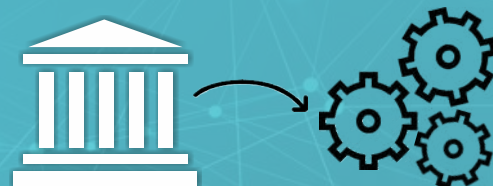
Driving Corporate and Education AV



Hemant Agarwal, Business Head - Display Solutions, and the driving force behind Delta Electronics India provides insights on how the company is gaining momentum

Banking on EYTE

Abdul Waheed's EYTE team automates and streamlines Collaboration, Smart Meetings and IT System and Security of UBS' new Pune Office through seamless integration and deployment



AV-ICNx EXPO 2021

AV INTEGRATION COMMUNICATION NETWORKING EXPO

INDIAN AV INDUSTRY AFFIRMED AV INTEGRATION COMMUNICATION NETWORKING EXPO INITIATIVES

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Following the success of the first edition, the 2nd edition of the annual AV-ICNx Expo is all geared up to attract OEMs, distributors and dealers of global brands focused on product segments like Video Projection & Display, Digital Signage, Large Display, Interactive Display, Unified communications, Education technology, Audio Processing, Digital Cinema, Cabling, Connectors and signal management, Conference and collaboration, IP & Network distribution.

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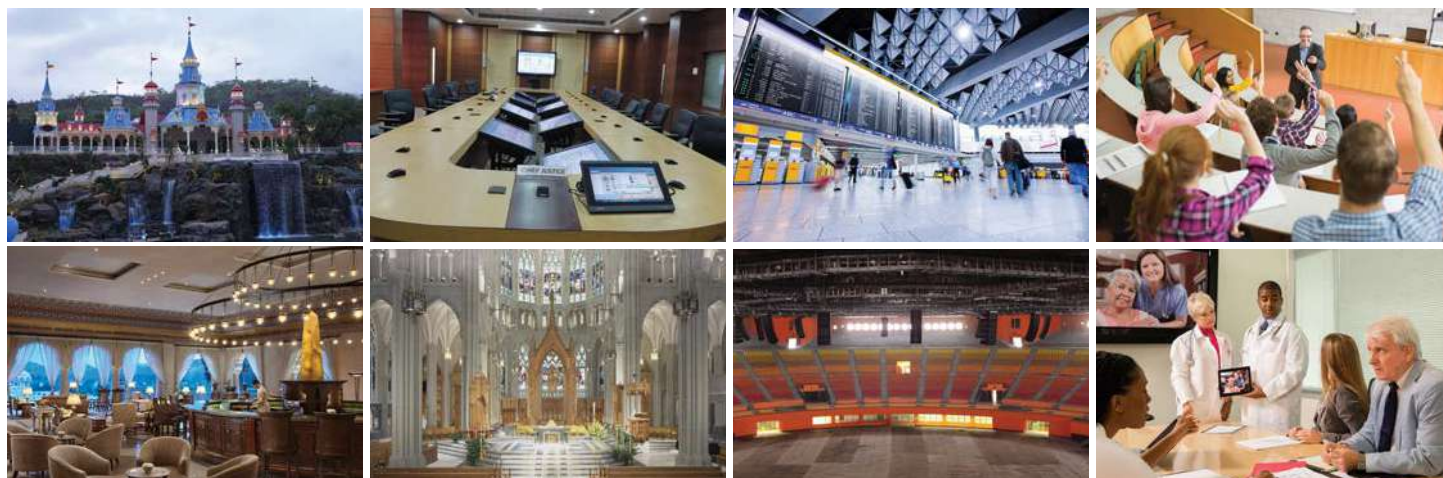
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AV - ICNX TECHNOLOGY

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ATLASIED EXPANDS PRESENCE IN INDIA WITH ADDITION OF NEW DISTRIBUTOR

AtlasIED, global electronics manufacturer providing comprehensive audio, communications, and security solutions for commercial markets, announces the addition of **Alphatec Audio Video Pvt. Ltd.** as distributor for its broad range of commercial audio and mass communication products. Effective immediately, Alphatec will handle sales and distribution exclusively of AtlasIED solutions to dealers in India. As well-established, reputable trade suppliers of audio products and communications solutions, Alphatec will help AtlasIED reach new customers and territories, further broadening its position as a leading global provider of audio, mass communication, and security systems to a wide range of industries, including health-

care, corporate, education, hospitality, and retail.

"We will be able to continue to broaden our reach to dealers throughout the world thanks to the backing and support of distributors like Alphatec that have outstanding expertise and knowledge of audio technology," said **Dean Standing**, International Sales Manager at AtlasIED.

"Alphatec Audio Video is very excited to be a part of the AtlasIED team to exclusively offer their world-class solutions in India. As a leading manufacturer of PA/VA, sound masking, and **AV over IP systems**, AtlasIED will add immense value to our offerings in India and help scale our business to the next level. Alphatec will be heard loud



and clear with robust AtlasIED product lines along with our other audio-visual offerings," said **Mayank Gaurav**, Director – Installed Sales at Alphatec.

MATROX EXTIO 3 IP KVM EXTENDERS' NEW PRIVATE WAN SUPPORT FACILITATES REMOTE WORK OVER LONGER DISTANCES

Matrox announced private wide-area-network (WAN) support with its high-performance Matrox Extio 3 IP KVM extenders. This new mode of operation enables organizations to introduce new remote work and collaborative workflow infrastructures by allowing users to access, share, and control any centralized workstation located in another building or city. Featuring best-in-class 4K and multi-display extension and switching support, Extio 3 ensures a secure and seamless remote desktop experience critical for a wide range of control room applications, including process control, industrial and

automation, military and defense, broadcast, medical, education, and more.

Multi-user and multi-site collaboration

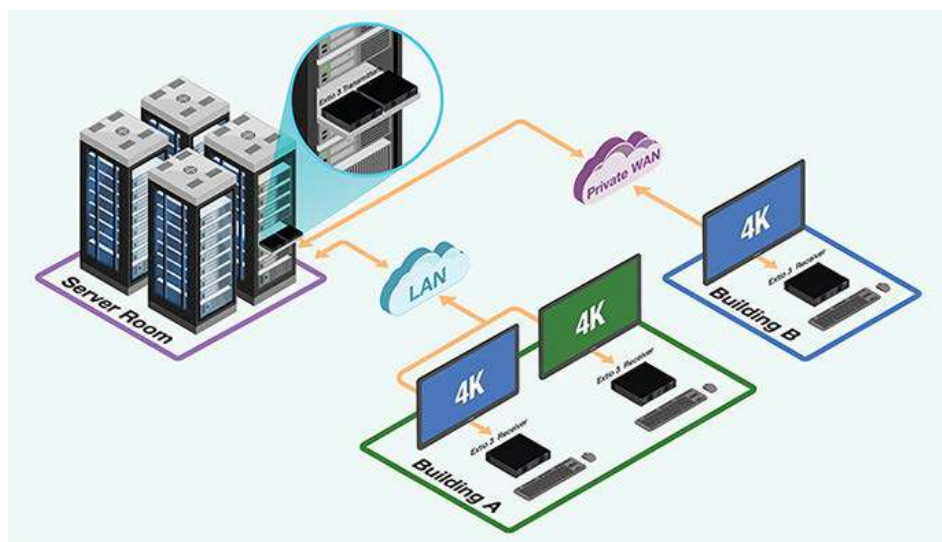
Built on a highly-optimized, ultra-low-bitrate encoding platform, Extio 3 provides KVM extension and switching performance across both LAN and private WAN infrastructures. This technology allows individual users to access dedicated systems or have multiple users connect to the same computer(s)—whether they are in the same building, between campuses, or even across multiple cities—to

promote collaborative work environments.

Secure, easy-to-deploy solution

Extio 3 boasts a number of advanced security features to safeguard the KVM network. AES encryption ensures secure transmission of all audio, video, and USB signals as they are transported over LAN or private WAN. IT administrators can also integrate Microsoft Active Directory to manage user authentication, as well as execute USB whitelist control of all connected devices. Compatible with Microsoft Windows, Mac, and Linux operating systems, Extio 3 is an easy-to-deploy KVM extender that does not require the installation of any software on the host system—the ideal plug-and-play solution for certified systems that need to be controlled remotely.

"Matrox Extio 3's new capability opens up a wide range of KVM extension and switching workflows for multi-site organizations," said **Caroline Injoyan**, business development manager at Matrox. "The ability to build highly-connected infrastructures backed by exceptional and uncompromised remote desktop performance over LAN and private WAN facilitates new levels of operational efficiency, whether it's to optimize real-time analysis, enhance critical decision making, or foster deeper teamwork and collaboration."



BARCO INTRODUCES NEW SERIES OF ADVANCED VIDEO PROCESSING AND PRESENTATION CONTROL SYSTEMS

Barco India, a global leader in visualization and collaboration technology introduced the PDS-4K presentation switcher, developed to meet audience requirements for high-quality image processing and fast seamless switching. The **PDS-4K** brings Barco's expertise from the rental and events industry into the workplace, for the first time. It is an ideal fit for mid-sized live shows, corporate presentations in larger meeting spaces, multi-purpose auditoriums and boardrooms.

With 4K becoming the standard audience experience across markets, the industry requires a switcher that manages both the legacy HD sources and the newest 4K devices. Barco's latest generation PDS includes eight 4K inputs and two 4K fully seamless mixing program outputs, designed to deliver

stress-free scaling and seamless mixing performance. It is built with a flexible principle, ensuring expandability and future-proof upgradability. The new presentation switcher is seen filling the dark hole of 4K processing for smaller rooms and will be a game changer for the corporate and live event industries.

Commenting on the launch, **Rajiv Bhalla**, Managing Director, Barco India said, "It is essential that enterprises invest in innovative solutions that increase the productivity and engagement of their workforce. Barco has a leadership position in the workplace collaboration and live events space, and with PDS-4K, we are offering enterprises, as well as live show platforms, a seamless solution for high-end switching between the legacy HD sources and the newest 4K devices, with

jection, and ClickShare, and enables smooth integration without compromising on video quality. PDS-4K can also be combined with the Event Master Toolset, Barco Overture, or other third-party control panels.

"The PDS-4K brings the outstanding quality and standard routinely expected in professionally organised events to the workplace and the boardroom. The ease with which corporate presenters can now switch between sources and platforms will wow the audiences both live and virtual. It is going to redefine corporate events and presentations as organisations focus on events with pre-qualified audiences in the region," concluded **Ta Loong Gan**, Sales Director ProAV, Barco APAC.

The presentation switcher can also be combined with Barco ClickShare devices, installed in over 750,000 meeting and boardrooms worldwide, for flawless presentations. The easy-to-operate full-screen presentation switcher brings the best visual experiences for boardrooms, lobby, and auditorium, sure to impress and have a lasting impact.

- Barco multi-format Presentation Switcher PDS-4K combines state-of-the-art, seamless integration and switching with visual experiences, allowing users to engage critical audiences
- Specifically designed for Live Events and Corporate Meeting Spaces
- PDS-4K switcher enables full-screen presentation switch, easy content management, advanced screen mapping, and integrated multi-screen control for professional video effects and presentations



all content as intended. The modular and scalable architecture supports a wide variety of show configurations.

The new generation PDS relies on the power of the tried and trusted Event Master processing product line. The PDS-4K incorporates the Athena™ scaling technology for

premium video capabilities."

Guaranteeing unsurpassed performances and outstanding visual experience, PDS-4K offers users simplicity, intuitive ease-of-use, and complete convenience. The switcher is compatible with all Barco visualization and collaboration solutions like LED, LCD, pro-

TELEVIC CONFERENCE APPOINTS ALPHATEC AS EXCLUSIVE DISTRIBUTOR FOR INDIA

TELEVIC CONFERENCE has announced the appointment of ALPHATEC as their exclusive distributor for INDIA.

Alphatec has been serving the Indian AV market since 2015. It continuously excels on three core fronts: as a full-range AV distributor, by having professional in-house technical support, and by offering extensive after-sales. The company's approach is to look for solutions that are geared towards specific customer needs in comprehensive

and varied AV fields. It is committed to delivering true mission-critical systems. As a result, it is no surprise that Televic Conference has decided to grant the Alphatec team exclusive distribution rights of its products in India. By joining forces, both parties believe they have secured a strong foothold in a rapidly evolving market.

Devasis Barkataki, Managing Director of Alphatec notes: "Televic always offers truly innovative products. We believe that our

cooperation will help us provide the best solutions to our customers. Moreover, both Televic and Alphatec share a commitment to a sustainable approach, which we feel is at the heart of a successful cooperation between both partners and clients."

With this agreement, Televic Conference strengthens its position in India, one of the fastest-growing markets in Asia", adds **Koen Van de Perre**, Televic Conference's Business Development Manager for Asia Pacific.

GREEN HIPPO LAUNCHES FEATURE-PACKED NEVIS+

Real-time video manipulation expert Green Hippo has opened up new a new world of options for its users with the addition of a small-yet-powerful Media Server to its range, the Hippotizer Nevis+.

Featuring all of the creative power of its well-known bigger brothers, Hippotizer Nevis+ is designed to provide a smaller, inexpensive solution for video creation, visualisation and playback, with all of Hippotizer's software features as standard.

The Nevis+ is a half-rack or wall-mount unit offering one display port 1.2 output with software-based EDID management, two network ports and the latest versions of Hippotizer's user-friendly tools including SHAPE 3D Mapping, PixelMapper and the multipurpose pre-visualisation tool, all built into its Hippotizer V4 software.

"We've designed the Nevis+ for a broad range of less demanding applications, including live music and theatre tours, corporate events and TV OB/on location productions, which have logistical and bud-

get restrictions and where the the control systems need to be compact," says Green Hippo's Sales and Marketing Director, **David March**. "Nevis+ offers a full, rugged media



server inside a small, purpose-built chassis that you can pack into carry-on luggage. It's lightweight, affordable and offers straightforward control with all the the popular Hippotizer features that simplify powerful video manipulation." Green Hippo has developed Nevis+ in response to an ever-increasing use of visual displays in live entertainment and

fixed installations, and despite it being in the production phase before the COVID-19 pandemic, it is now needed more than ever.

"Every surface seems to be a digital display

these days, and we want to offer the power of Hippotizer in an affordable package to projects with lower budgets," March continues. "We feel that now, more than ever, such an affordable solution will help solve the problem of keeping projects well within budget as crews struggle with the realities of social distancing."

KINLY ANNOUNCES ACQUISITION OF AVMI

Kinly – a leading global specialist in video collaboration services, headquartered in Amsterdam – today announces the acquisition of AVMI – a leading global AV-integrator and managed services provider, headquartered in London.

The acquisition of AVMI strengthens Kinly's position as Europe's No. 1 player and firmly establishes Kinly as a global top 3 provider of video collaboration services. Together, Kinly and AVMI will offer a compelling proposition in the virtual collaboration space to customers globally. Kinly and AVMI operate in over 20 locations throughout Europe, USA and APAC, serving clients in over 125 countries with over 1,200 talented and passionate employees.

"We are very excited to announce that AVMI, a leading UK based global AV integrator, will join and strengthen the Kinly team. The combination of our businesses will support our strategy to expand our international presence. Together, we offer our clients a truly global service and holistic portfolio of high quality and secure video collaboration solutions. Our businesses are highly complementary and we share

a strong reputation with our clients as trusted adviser. AVMI brings an enviable track record in delivering complex enterprise projects globally and providing operational and service excellence. Kinly offers best in class video collaboration solutions and unparalleled product expertise in remote management, video cloud solutions and adoption services. This powerful combination will also bring new opportunities and career prospects for our people in an exciting environment. I very warmly welcome the AVMI team on board and I am convinced that our teams across the globe will jointly create even more value for our customers," said **Robbert Bakker**, CEO of Kinly.

Commenting on the announcement, **Edward Cook**, CEO of AVMI, said "The combination of Kinly and AVMI has always looked like an excellent idea and I am delighted that it is now a reality. Both companies are market leaders in their own countries and I am confident that, together, we can truly compete on the global stage. Our industry



has matured to the extent that our clients now demand global coverage and a breadth of skill sets that only a handful of companies can provide. I am certain that the newly expanded Kinly will have a very exciting and successful future."

In March this year, AVMI had announced the opening of a new operation in India, to support global demand from its enterprise customers. http://www.av-icnx.com/magazine/AV_Tech_New_198_AVMI_Enhances_Global_Offering_with_New_Operations_in_India.aspx. The enlarged Kinly group will continue to be supported by Avedon Capital Partners, a leading mid-market growth investor based in The Netherlands and Germany.

LENOVO ADDS MIRAGE VR S3 STANDALONE HEADSET WITH THINKREALITY TO PORTFOLIO OF VR SOLUTIONS

During the VR/AR Global Summit Online Conference, on June 1, 2020, Lenovo announced the latest addition to its portfolio of commercial virtual reality (VR) solutions — the **Lenovo Mirage VR S3 headset with ThinkReality**. The new VR solution for enterprise was unveiled during the keynote speech by Nathan Pettyjohn, Commercial AR/VR Lead, Intelligent Devices Group, Lenovo.

The Lenovo Mirage VR S3 is an all-in-one headset developed in conjunction with Pico Interactive, a global technology company that develops innovative VR and enterprise solutions. Specifically designed for enterprise, the Lenovo Mirage VR S3 features a 4K display for clearer visuals, hands-free control for utilization with or without the provided controller, and an easy to clean, hygienic face plate suitable for mass use. Built with integrated audio and up to three hours of battery life, the new VR headset is rugged, light weight and ready to scale within the enterprise.

The Lenovo Mirage VR S3 headset is supported by the Lenovo ThinkReality software platform. ThinkReality is among the first truly device- and cloud-agnostic AR/VR platforms enabling commercial customers to deploy and manage applications and content on a global scale, with global support. ThinkReality provides enterprise customers with powerful management tools, enterprise integration, and a robust IT portal that allows for management of user applications and devices.

The Lenovo ThinkReality platform provides a proven, scalable, and streamlined path from proof of concept to productivity for enterprise AR/VR applications. With prebuilt functions and program logic, the ThinkReality Platform enables engineers to build sophisticated applications more easily and quickly.



Lenovo Mirage VR S3 headset

"VR helps achieve better, faster training at lower cost," said **Nathan Pettyjohn**. "Our enterprise customers are looking for solutions to build and enable more skilled and efficient global workforces. They are increasingly looking for cutting-edge solutions like VR and AR supported by ThinkReality's flexible platform to scale applications enterprise-wide."

The Lenovo Mirage VR S3 headset is included in the Lenovo VR Classroom 2 education solution.

CALREC'S DAVE SAMPSON MOVES INTO NEW IP ROLE AS NETWORK SPECIALIST

Calrec has created a new position to further cement its reputation as a market leader in IP technology. **Dave Sampson** has taken on the role of Network Specialist to provide in-house expertise that strengthens Calrec's ability to support customers in the move to IP. A Calrec team member for seven years, Sampson previously held the role of Product Test Engineer where he was responsible for compliance testing of Calrec's AoIP products to industry standards including ST2110, AES67, NMOS and more.

"As IP connectivity becomes increasingly widespread and more accessible to all sectors of our industry, it's vital that Calrec continues to invest in supporting its development. The transition to IP affects pre-sales, integration and post-sales projects, and this new role helps us to support our customers move into an IP environment with confi-

dence," said **Dave Letson**, VP of Sales.

He added, "Given Dave's extensive experience both of AoIP and Calrec's product range he will be a significant addition to the team that will strengthen Calrec's reputation as a trusted advisor in IP networking."

Sampson will provide technical support and consultancy for the design, development and delivery of IP-based networking solutions for Calrec customers, as well as create and deliver training and knowledge-based documentation.

Sampson commented, "I'm delighted to be moving into a new role with Calrec where I can help to keep the company ahead of the curve with audio over IP. This industry is changing so quickly and being up to date with front line technology, and sharing that knowledge with customers, is one of the attributes that makes Calrec such a for-



Dave Sampson

ward-thinking organisation."

Alongside DiGiCo, Allen & Heath and SSL, Calrec is part of the Audiotonix group of British console companies.

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POWERSOFT AMPLIFICATION NOW AVAILABLE FOR SPECIFICATION WITHIN D-TOOLS

Manufacturer of professional power amplifiers, Powersoft, has announced that its full line of cutting-edge amplifiers will be available for specification within the popular D-Tools software for systems integrators. D-Tools' System Integrator software and D-Tools Cloud platform make it easier than ever for integrators to specify Powersoft amplification, thanks to a purpose-built workflow that serves integrators small and large. In celebration of this announcement, Powersoft dealers will be eligible for an exclusive free 45-day trial of D-Tools Cloud.

"It is our pleasure to bring the full breadth of Powersoft amplification to the D-Tools platform," says **Francesco Fanicchi**, brand communication and trade marketing manager, Powersoft. "Our diverse lineup of industry-leading amplifiers presents compelling possibilities for installations of all sizes, and we are happy to now make them available to integrators through this powerful and efficient software tool."

"We are excited to add Powersoft to our amplification offerings within D-Tools' software solutions," says **Barrie McCorkle**, director of supplier programs, D-Tools. "Powersoft amplification's unique capabilities and diverse configurations help broaden our users' selection of amplification solutions,

empowering them to design and build systems that best meet their clients' needs."

D-Tools' award-winning on-premises software, System Integrator (SI), and cloud-based platform, D-Tools Cloud, streamline project workflows for system integrators including sales, comprehensive system, design, project documentation, procurement, installation, back office management, and service, through a data-driven process that leverages an extensive and integrated product library. The D-Tools product library will now include detailed product information and dealer-specific pricing for Powersoft's full line of amplifiers, including the installation-focussed Duecanali, Quattrocaneali, and Ottocaneali rack amplifiers, with and without DSP, as well as the new half-rack Mezzo series of DSP-enabled amplifiers.

Users will be able to design and quote detailed systems featuring Powersoft amplification, then easily create cohesive presenta-



tions for their clients with accurate estimates. All Powersoft amplifiers feature crystal-clear sound, remarkable efficiency, and a compact integrator-friendly rack footprint. Powersoft's feature-rich ArmoniaPlus software allows deep control over and monitoring of its DSP-enabled amplifiers via a connected computer or laptop. Users can access and manipulate everything from source and output assignment to equalization and limiting to failover settings and more for each amplifier within their network.

An exclusive 45-day trial of D-Tools Cloud is available to all Powersoft users at the following link: <https://d-tools.com/hosted-free-trial-signup/>

XILICA ANNOUNCES FIVE-YEAR LIMITED WARRANTY

Xilica, a global leader in digital signal processing technology for AV/IT, announced that it will provide a "Five-Year Limited Warranty" covering most eligible, Xilica-branded products shipping on or after July 1, 2020.

The modular nature of Xilica digital signal processing (DSP) solutions means that the warranty will also cover new expansion

changing customer habits and requirements that relate to both system scalability, and the increased integration of digital signal processing within modern AV/IT networks.

"Xilica customers place their trust in the Xilica brand based on its proven track record of reliability and success," said **Donny Chow**, CEO for Xilica. "By extending its three-year limited warranty to five years, Xilica underscores its unwavering commitment to delivering quality, value, and reliability to our global base of partners and end customers."

The warranty, which is limited to Xilica solutions sold by Xilica Authorized Partners, including authorized dealers, distributors and strategic resellers, ensures quick replacement to address system failures. Xilica will overnight replacement products to U.S. customers to minimize

downtime during repairs. Outside the U.S., customers will receive prompt attention from any of Xilica's 75+ global service centers, which are staffed with Xilica Certified technicians. With their shared commitment to providing a quality customer experience, Xilica's global service partners will expedite equipment swaps and backups from their inventories to ensure customer satisfaction.

Chow notes that many of Xilica's competitors cap their warranties at just one, two, or three years. "We at Xilica are confident about the quality, durability, and robustness of our DSP product portfolio, and we guarantee exceptional performance through one of the best DSP manufacturer warranties in the business," he said. "Should you have a problem with a Xilica product, rest assured that we will promptly make it right, regardless of your location."



modules, field-swappable cards, and other devices that expand a previously-purchased DSP's capabilities.

The new limited warranty aligns with

QSC ANNOUNCES NEW Q-SYS CONTROL PLUGINS TO SIMPLIFY MEETING ROOM DEVICE INTEGRATION

NEW PLUGINS DELIVER TOUCHLESS MEETING SPACE AND QUICK INTEGRATION OF SENNHEISER TEAMCONNECT CEILING 2 MICROPHONES

QSC announced two new Q-SYS Control plugins now available in Q-SYS Designer Asset Manager. The Sennheiser TeamConnect Ceiling 2 microphone plugin and the UCI QR Code plugin allow for drag-and-drop integration into the Q-SYS Ecosystem, saving programming time and resources for AV integrators, programmers and consultants.

New to Q-SYS Designer Asset Manager, the Sennheiser plugin offers configuration and management capabilities for its TeamConnect Ceiling 2 microphone inside the Q-SYS Ecosystem. This plugin allows users to easily discover the microphone on the same subnet as the Q-SYS Core processor, monitor audio levels, and view in realtime the vertical and horizontal angle of the detected person speaking. All these capabilities can be exposed as graphic elements and drag and dropped onto any custom UCI.

"Sennheiser is excited that QSC has added support for the TeamConnect Ceiling 2 (TCC2) to the Q-SYS Designer Asset Manager," says **Charlie Jones**, Global Business

Development Manager for Business Communications at Sennheiser. "The patented automatic beamforming technology of the microphone combined with the ease of integration into the Q-SYS Ecosystem allows integrators to deploy more meeting rooms even quicker than before, saving time and money."

The QSC UCI QR Code plugin expedites the process of putting room controls in the hands of a user's smartphone, thus creating a safer, touchless meeting room environment. Designers can quickly and easily use the plugin to create direct links to a given Q-SYS user control interface (UCI) and place them on existing Q-SYS touch screen devices. Users need only aim their phone's camera at these special QR codes, and the smartphone will automatically open the room's predetermined controls through the Q-SYS control app or standard mobile web browser.



"The reality of our world has us all reconsidering how we design an effective meeting room," says **Greg Mattson**, Product Manager, Q-SYS Control, QSC. "The new UCI QR Code plugin allows integrators and programmers to easily adjust with a tool to help speed up integration and deliver a meeting space where end users can be productive and safe. Furthermore, as meeting rooms continue to evolve, we are committed to providing pre-built plugins for some of the most common meeting room endpoints to easily expand control capabilities of the Q-SYS Ecosystem."

TELEVIC INTRODUCES CONFERO 360

TELEVIC CONFERENCE, the leading manufacturer of innovative solutions for moderated meetings, launched Confero: a web-based software that requires zero installation. The software was developed with ease of use and simple installation top of mind. The 360 license adds tools to easily manage meetings. User roles bring the relevant controls front center so a user can focus

on getting the job done.

Confero can now be added to existing Televic Plixus systems to provide simple meeting control and system diagnostics. Confero is based on a zero-install principle. Being web-based the software is platform-agnostic, just browse to the Plixus engine on any device. This results in a significant reduction in installation time. At startup, a wizard guides users through the setup and configuration, which eases client training.

"We wanted to design software with a focus on ease of use and elevated experience for moderated meetings," says **Ronan Dezyn**, Televic Conference Product Manager. "We performed user-centered

exercises with several stakeholders involved in managing meetings." Meeting operators, chairpersons, and technology professionals both appreciated the attention to their own meeting requirements. Confero streamlines the installation of conference systems. At any time the system can be expanded by adding a Confero 360 license, unlocking simple yet powerful meeting management tools.

The first release of Confero 360 addresses the need for small to medium-sized city councils to perform software-based moderation, electronic voting, identification by access control cards and meeting reporting:

Confero is the start of our new software direction and focuses on simplifying workflows in moderated meeting spaces. Says **Bart Deschodt**, Televic Conference General Manager. "Confero is vital to achieving our goal to become the reference in the moderated Conference industry."



SENNHEISER TEAMCONNECT CEILING 2 IS NOW COMPATIBLE WITH ZOOM

SMART MICROPHONES FOR TODAY'S NEW CONFERENCING CULTURE WITH SOCIAL DISTANCING

Having spent several weeks working from home during lockdown, many people are now missing their usual office environment and the chance to exchange ideas directly with their work colleagues. Employers are busy developing plans for returning to work – while still observing hygiene rules and social distancing – with the aim of gradually increasing the number of people present at their

offices as time goes by: “Our people are coming back of their own accord,” said the chairman of a world-famous producer of sports goods, for example. Ceiling microphones such as the Sennheiser TeamConnect Ceiling 2 offer hygiene benefits for cases like this.

Sennheiser TeamConnect Ceiling 2 is additionally compatible with Zoom Video Communications, Inc.'s Zoom Meetings – as is the Bose ES1 Ceiling Audio Solution, an in-ceiling unified communications solution consisting of the Sennheiser TeamConnect Ceiling 2 microphone, the Bose ControlSpace EX-440C conferencing DSP, Bose EdgeMax EM180 in-ceiling loudspeaker and Bose PowerSpace P2600A amplifier. While ensuring perfect aesthetics for any conference room or seminar room, the system provides users with a seamless, high-quality audio experience. Zoom is a video communications solution that has become an indispensable

COVID-19 pandemic which has forced many professionals to work remotely.

According to **Vipin Pungalia**, Director, Professional Segment, Sennheiser India, “We are extremely elated to be a part of a reliable audio solution that is Zoom compatible. This will become an integral resource especially post the lockdown, where only a few workforces will attend office while the rest work remotely. Collaborative tools like these enable people to connect seamlessly from anywhere in the world.”

Sennheiser's TeamConnect Ceiling 2 microphone uses adaptive beamforming to automatically and reliably pick up the person speaking in a conference room, no matter where he or she is located within the space. The microphone allows for freedom of movement, flexible use of conference rooms and outstanding audio quality.

In addition to business conferencing applications, the Sennheiser TeamConnect Ceiling 2 is increasingly employed in higher education environments, where it facilitates distance learning, especially with seminars which usually require a greater freedom of movement and feature several speakers. In addition, as hygiene continues to be top of mind, the TeamConnect Ceiling 2 enables touchless audio in classrooms to more easily maintain social distancing best practices while ensuring all students experience clear and discernible lectures.



workplaces. In fact, many manufacturers are finding that employees are becoming more and more keen to return to their deserted of-

resource for many businesses in light of the digital transformation of the workplace, and now more than ever in the wake of the

BIAMP ANNOUNCES FOUR NEW CONFERENCE ROOM BUNDLES

Leading supplier of professional audiovisual solutions Biamp, has announced that four new conference room audio bundles have been certified for Microsoft Teams, enabling customers to enjoy a complete Biamp audio solution as part of their Microsoft Teams Rooms in medium and large meeting spaces. Each bundle includes Parlé Beamtracking microphones for the tabletop or ceiling, along with all the audio equipment needed to build an outstanding audio experience in Teams Rooms-equipped spaces with zero cable termination and automatic room deployment and configuration.

Biamp's new bundles certified for Microsoft Teams offer customers the advantages

of a complete Biamp solution that extend far beyond superior audio. With each bundle, installers benefit from automated system deployment and configuration made possible by the seamless integration of each Biamp component, as well as minimal cable requirements with zero termination, zero network setup, automated EQ, and more. The complete bundles include an easy room deployment tool, meaning integrators don't even need to open up the Tesira® software platform if they don't want to — there has never been a more plug-and-play installation for a complete Biamp conferencing and collaboration solution, resulting in significant time savings for

integrators.

Parlé microphones use patented Beam-tracking technology to create dynamic virtual microphones, which track and intelligently mix conversations from around the room, enabling remote participants to feel just as present as those in the room.

Four new bundles are available for medium and large Teams Rooms spaces, with a choice of ceiling or table microphones. Each bundle contains a TesiraFORTÉ® DSP, TesiraCONNECT, Tesira EX-UBT, and the appropriate quantity of Parlé microphones and Desono C-IC6 loudspeakers for the room size. The bundles also leverage Biamp's PoE-powered amplifiers with Burst Mode Technology.



BANKING ON EYTE

Mumbai based AV consultancy firm secures UBS with State-Of-Art AV solutions

EYTE Technologies Pvt. Ltd. spearheaded by **Abdul Waheed** was instrumental in helping realise a vision for UBS' new Pune Office; automates and streamlines Collaboration, smart meetings and IT system and security of the multinational investment bank through seamless integration and deployment. AV-ICN reports.

Headquartered in Switzerland UBS is a multinational investment bank and financial services company with presence in all major financial centres worldwide. As one of the largest Swiss banking institution in the world, the 900 billion company boasts of 1250 offices in 50 countries across the globe with almost 70,000 employees worldwide.

Underlining its commitment to India, UBS has expanded exponentially in the country with offices in Mumbai, Pune and Hyderabad. As part of a strategic relocation programme, UBS acquired its fourth office in India at the EON IT Park in Pune, which is a SEZ building. Occupying 200,000 sq. ft. and the top three floors of the building, the

organisation now accommodates its entire workforce and partners in a central location from which it can provide a high-quality working and collaborative environment for staff and clients. The modern and agile workspace, will provide UBS businesses with support in the development of advanced



technology and business processes.

EYTE has enjoyed a long and rewarding partnership with UBS having completed some exciting integrated AV projects in the past. Having worked with EYTE for past projects and experiencing the company's smooth and efficient service from proposal to completion in the past, the client turned to EYTE for their new office project at EON in Pune's suburb of Kharadi too.

The Project Brief

Following a successful tender process, EYTE was recruited to design and supervise implementation of a sophisticated professional AV solution into the client's new prem-

ed AV scheme include multiple types of meeting rooms, video conferencing rooms, collaboration areas and a flexible collaboration space, Amphitheatre, cafe breakout space and public areas as well as executive meeting rooms.

The project called for increasingly sophisticated AV systems architecture that would enhance the company's technological experience and ensure it would maintain its position as one of the most dynamic financial services company in the world.

A key feature of the project was the town hall facility on the 10th floor, a facility that supports the company initiative to help participating clients from across sectors unlock creative potential within a vibrant, flexible environment through close collaboration and rapid learning techniques. This space now boasts the UBS office space with video walls and interactive screen 4k display screens. A vast presentation space forms part of the town hall facility and by projecting content onto the video

wall and projector screens, users are able to interact with it and then revert to collaborate in pre-defined areas.

The Challenges

"The global standards of any company are always good to follow as standardisation throughout their offices provides comfort to users but at the same time it becomes challenging as designers have to work with limited choices and have to meet local availability of products and face support issues. Also, local rules regulations, norms, environmental conditions make it a challenge," says Abdul Waheed, Managing Director of Eyte.

According to Waheed, fixed installations in locations like walls and tables are normal, but to accommodate Pro AV solutions in flexible and collaborative environment is challenging. "Operable walls, sliding partitions and portable tables, make it difficult to fix the location of devices and cabling



becomes challenging. The dilemma for the designer is whether to go wireless, which is not advisable in many situations, or to go with flexible patch cables. Modern offices are more of collaborative and flexible seating and meeting rooms," he says.

Commenting on Centralized Deployment of solutions, Waheed says, "Individual room designs and dedicated control devices for distinct spaces is always simple and easy to achieve, but for large offices and systems, individual controls not only become expensive but difficult to manage. In such scenarios the centralised system, common processors, and shared devices though preferable are challenging to deploy. Consultants and integrators have to not only design and lay long cable routes but also the programming becomes complex. For users however, it is fun and easy to manage. At UBS, we have not only used centralised Digital Signage but centralised automation systems as well. That makes this project very unique."

The Solution

For banks, video conferencing is an essential tool to facilitate regular meetings with clients and partners across the globe; hence, EYTE recommended a solution with high definition voice and video conferencing with easy screen sharing and extensive interoperability to enable users to communicate with any smart system. "Wired multiport connectivity in meeting spaces for users to connect & present on Display, and automation systems are also provided for easy operations to detect the signal to switch the source at switcher & Display device, also it is a part of Asset management with Centralized system," says Waheed.

Client: **UBS**
AV Consultant: **EYTE Technologies Pvt Ltd**
System Integrator: **All Wave AV**
Architect: **Concept Architect**

Room schedulers placed outside rooms like meeting rooms, conference rooms, boardrooms and training rooms enable users to check availability of rooms, book rooms remotely and generate utilization reports, etc.

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Pic for illustrative purpose only

ises in EON in Kharadi, Pune, architecture of which was helmed by **Concept Architect**. EYTE was commissioned to design a host of pioneering technologies that would transform UBS' working space. **Arif Patil**, Head of the technical department at EYTE was the Sr. Project Designer for this project. For integrating the AV infrastructure, Mumbai based systems integrator & AV solutions provider – **All wave AV** was brought on board.

The comprehensive brief called for a scheme that would equip business space on floors eight to eleven with pioneering audio visual technologies, including digital signage, IPTV distribution, dynamic display systems, large format video walls, projection system, conferencing systems, room scheduling, control and automation technologies, asset management, a town hall event with streaming on UBS network.

EYTE was appointed to deliver wide-ranging AV technologies in major areas across the site. The areas covered by EYTE's integrat-

WIRELESS PRESENTATION SYSTEMS

The world of education is changing, and technology is playing a key role. One of the major shifts as we emerge from the all-engulfing COVID-19, is the shift towards online education and the need to create a collaborative and inclusive educational environment. 2019 saw the Wireless Presentation System (WPS) hardware market continue to enjoy substantial growth worldwide and the sudden shift to online teaching and learning is acting as a catalyst to this growth. Here we look at a lineup of some Wireless Presentation Systems available in the market

Barco - wePresent WiPG-1600W

cross-platform compatibility allowing Windows, macOS, Chromebook, Android and iOS devices to present and interact together. WiPG-1600W also offers support for Apple AirPlay, allowing users to present using Apple's native protocol.

WiPG-1600W offers all the features found in the WiPG-1000 plus smart and considerate upgrades. The on screen annotation and virtual whiteboard features enable presenters to highlight key points and elaborate on ideas during their presentation. Using a USB mouse plugged into the unit, presenters can annotate on screen and access conference control features for moderators without a touchscreen display.

WiPG-1600W offers a variety of connection styles to suite any environment. Using the onboard USB port, presentations of documents, media and video can be completed without any PC/Mac/mobile device.

With webslides, presenters can ensure their audience remains engaged and focused on the content being shared. With this feature enabled, all connected audience members can view content being projected to the display and any on screen annotations on their own device in real time.

Key Features Include:

- Flexible networking via wired LAN, wireless LAN or both at once
- USB connectivity
- Full 1080p resolution and low latency video streaming
- On screen annotation for more interactive presentations
- Power-over-Ethernet (PoE) for flexible and simple installations



without

Showmi - 104A

Showmi is a Wireless Presentation System made for bring your own device (BYOD) content sharing by eliminating the need for AV, HDMI or VGA cables and allows users to share content seamlessly and professionally in small to Large-sized meeting rooms, classrooms and huddle spaces.

It supports dual Wi-Fi network protocols. It supports both 2.4GHz and 5.8GHz bands with high sensitivity antennas to give you the best wireless display experience. It not only supports HDMI but also USB devices like flash drives, mouse and touch panels.

Key Features Include:

PC / Mac compatible: Wireless transmission via the Klick & Show TOUCH transmitter for Microsoft Windows or Apple Mac laptops and PCs to the base unit.

Airplay: Supports "Airplay" for wireless content mirroring from iOS devices, without using an app.

USB-Touch: Built-in USB-Touch function for connecting touch-displays and interactive boards.

Security: AES WPA2PSK authentication protocol for secure signal transmission.

Wireless AP: Built-in WiFi access point to set-up a standalone WiFi network between PC-sources/mobile devices and the base unit, instead of occupying an existing company/campus network. IEEE 802.11n/ac standard for transmission rates up to 1 Gbps. Choose between 5 GHz or 2.4 GHz band to minimize interference with other WiFi networks.

LAN-Network: Additional LAN port on base unit, to link mobile devices to a LAN network or internet whilst being connected to the Showmi receiver unit over WiFi.



Aurora - VLX-TC1-CF

The VLX Series utilizes Aurora's IPBaseT technology, which synergizes various IP/AV standards to work together as one. It is reportedly the industry's first 4K UHD transceiver with only 1.5 Frame (25ms) latency and visually lossless compression. Using a transmitter (encoder) and receiver (decoder), respectively, used to be the standard – until now. The VLX Series box or wall plates 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 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 1G RJ-45 Ethernet switch. When the VLX is set up to be a transmitter, the 2 HDMI inputs (VLX-TC1-CF, VLX-TCW2H-C) or VGA/HDMI inputs (VLX-TCW2V-2) 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. Fast-switching of the sources further enhances the presentation (Matching source resolutions and frame-rate required). Regardless of how the VLX is set up, the audio can be de-embedded at any location, and/or be sent to or received from a Dante enabled device. The USB is also flexible, working as a KVM and/or a high-speed data transfer (50Mbps) for memory sticks. Each VLX USB feature can also be set as a host or a device. To keep the system friendly, an OSD and integrated web server are available for easy navigation and setup of features. Digital signage, education, corporate, and residential are just a few markets which benefit from the flexibility and low cost of the VLX Series.

Key Features Include:

- 4K visually lossless over 1Gbps network
- Low 1.5 frame latency
- 1080p to 4K, 4K to 1080p scaling
- HDMI 2.0/HDCP 2.2
- Secure Content Encryption
- Unlimited scalability (based on network topology)
- Videowall with image rotation
- PoE (Power over Ethernet)
- Stereo line I/O
- RS-232 and IR Control Ports
- Auto sense switching
- USB 2.0 Host and Device Ports
- Dante IP audio option



Viewsonic - ViewSync3

The ViewSonic ViewSync 3 wireless presentation gateway offers a convenient AutoProject function for USB wireless presentations. Whether in meeting rooms or classrooms, presenters can easily plug-n-project from their own laptops via a wireless auto-projection USB dongle, instead of using a VGA cable or traditional wireless presentation setups, decreasing setup time and cutting back on monotonous procedures.

With bundled presentation software, it helps the presentation host to enhance interaction capabilities in large-scale meeting/class environments. Moderator mode allows 50+ simultaneous connections from attendees' PCs or NBs. The host can preview all connected screens before broadcasting, and can choose any linked screen to present. In seconds, the chosen presenter's ideas can be shared with all.

The ViewSync 3 supports laptop wireless 2.4G / 5GHz projection, Screen Mirroring and DLNA Media Streaming from your tablet or smartphone. It can support any of the above connection protocols and devices without a manual switch. Users can quickly connect to the ViewSync 3.

2.4GHz is a very popular bandwidth for most wireless devices, which can easily cause transmission lag. The advantage of a 5GHz network is that it can have twice the link speed, which increases the quality for multi-media broadcasting. WiFi Dual Band support utilizes flexible usage, by providing either 2.4G or 5GHz network.

The bundled software allows real-time annotations on content displayed from Windows or Mac laptops. These changes can be saved and updated instantly, allowing the presenter and laptop-connected audience simple, yet effective interaction.

With a built-in HDMI port, the ViewSync 3 receives and transmits Full HD 1920 x 1080 images.



Extron - ShareLink Pro 500

Extron ShareLink Pro 500 enables anyone to present wired or wireless content from their computers, tablets, or smartphones onto a display for easy collaboration. It features streaming technology that supports simultaneous display of up to four devices, including an HDMI-connected device, and dynamically update the display layout as new content is shared or removed. The HDMI input supports wired connections from any connected source in the room. To support a wide range of environments, ShareLink Pro has collaboration and moderator modes that facilitate both open and controlled environments. When used with Extron GVE – GlobalViewer Enterprise software, multiple units can be managed across an enterprise or campus. ShareLink Pro's professional capabilities provide easy integration of AV and mobile devices into meeting, huddle, collaboration, and presentation spaces.

Key Features Include:

- Wirelessly share content from mobile devices
- Provides full screen mirroring for all devices
- Supports 802.1X Authentication
- Supports Mac and Windows computers as well as Apple and Android tablets and smartphones
- Extron ShareLink Pro macOS app
- Dedicated app provides consistent user experience across platforms
- View up to four pieces of content simultaneously from any connected user
- Easy setup and commissioning with Extron PCS – Product Configuration Software
- Wired and wireless sources can collaborate simultaneously
- HDMI input supports computer and video resolutions up to 4K
- HDMI output supports computer and video resolutions up to 4K (ShareLink Pro 1000) or 1080p (ShareLink Pro 500)
- Compatible with TeamWork Show Me cables (ShareLink Pro 1000 only)
- Collaboration mode allows any attendee to display content and control the presentation
- Moderator mode ensures only approved users' content is displayed
- Display codes ensure content is delivered only to the selected display devices
- Dual Gigabit Ethernet enables segmentation of guest and private networks (ShareLink Pro 1000 only)
- Fully customizable welcome screen
- Display control options over HDMI connection include CEC (ShareLink Pro 500) or RS 232 and CEC (ShareLink Pro 1000)
- WebShare technology displays slide images on attendee's personal devices via a Web browser



BenQ - InstaShow

BenQ's InstaShow wireless presentation system removes challenges like restricted number of users, wrestling with cables and logging onto the network and speeds up learning by enabling users to wirelessly present by simply plugging in the InstaShow button to their devices and tapping it to share content to projectors and flat panels in the room. There is no software or app in order for it to run on a laptop, and no need to log onto the school's network, and with its standard HDMI interface – will connect to any HDMI classroom source such as document cameras, media players, and digital microscopes. The system also sets a new benchmark in the number of participants or devices that can be shared, with up to 16 students (InstaShow WDC10 model) or even up to 32 students (InstaShow S WDS20 model) connected to the system. With InstaShow, not only does the whole class have the potential to join in, but up to four students at a time can share their screens simultaneously to the display instead of the typical two that are allowed with most systems.

The latest model, which released in Q4 2019, InstaShow S, supports mobile phone and tablets as well as allowing Windows laptop users working in classrooms with interactive displays to command their laptop right from the touch screen, opening files, controlling video playback, changing documents, and then saving them to their notebook. There's no running back and forth from laptop to the front of the classroom. Now teachers and students can present and learn at the speed of the future.

InstaShow S can maintain stable wireless connections even in less-than-ideal Wi-Fi environments. Equipped with Wi-Fi 802.11 ac/n for transfer speeds of up to 700Mbps*, InstaShow S facilitates easy and smooth sharing of presentations, pictures, documents, and Full HD video.

*300Mbps over 2.4G; 400Mbps over 5G.



DELTA TO GAIN **MOMENTUM** WITH **CORPORATE** AND **EDUCATION AV SOLUTIONS**



The AV Industry business is experiencing positive growth in the iFPD segment for applications which include education and corporate.

Hemant Agarwal, Business Head - Display Solutions, Delta Electronics India is the driving force behind the Indian arm of the multinational electronic giant, which is a pioneer in developing a wide array of professional display technologies for varied applications. In this interview with AV-ICNx, Hemant talks about growth trends in the interactive display market, latest innovations from Delta and the market going forward.

Globally the interactive display market has been steadily growing over the past years. How has the growth been for Vivitek so far in an emerging market like India?

The Indian Interactive Flat Panel Display (iFPD) Market is highly competitive with the presence of large number of interactive flat panel manufacturers. We have seen a rapid growth in demand for iFPDs especially since last 18-20 months. There has been an exponential increase in number of enquiries for iFPDs specifically in applications like Education and Collaborative rooms. For Vivitek in India, we look at iFPD as one of our growth Engines for the next 2-3 years.

Do you feel the 32-65" panel size interactive display market will hold largest share

in the year to come? And in which segment (education / hospitality / corporate etc.) do you envision increased demand for interactive displays in India?

We feel 32-65" sizes will mostly go for Hospitality and Signage applications. Interactive displays attract more visitors as they offer detailed and progressive versions of the content than just visual source of information. Companies are using interactive displays to build product awareness, enhance customer experience, and reinforce brand value. Sizes from 65" and upwards will form the main requirement for Educations and Corporate segments.

What are the latest innovations in Interactive Displays from Vivitek for varied application segments?

Vivitek's Interactive flat panel display (NovoTouch) already has wireless presentation and collaboration functionality via the integrated Vivitek NovoConnect technology, enabling full BYOD support and intuitive connectivity. The new NovoTouch EK Series interactive flat panels are an all-in-one solution. The touch screen range combines wireless collaboration, digital whiteboard, and active announcement board function into one display, most suited for the Education Segment.

With 20-point touch, 4K resolution, screen casting and collaboration, the new series completes Vivitek range of interactive panel displays. It has built-in Digital signage feature which actively delivers information between the lessons or during downtime.

Schools and colleges can publish notices, sport events, course schedules, canteen menu, and more.

How is NovoTouch unique or different from other interactive displays in the market?

At Vivitek, we follow more of a customer-centric approach and believe in providing a solution to customer that goes beyond wireless connectivity. These days, customers ask for true collaboration tools that enable moderator and participants to share and annotate content in real time. This is where the real value in collaboration lies, as decisions can be made quickly and challenges addressed promptly. Novo Touch takes care of all this. The power comes from integration with NovoConnect Solution which allows for up to 64 participants to connect in a digital workspace and wirelessly display their content to the main screen with features like voting, polling and instant file sharing. Even guests in a corporate environment can connect without any preparation by just connecting the LauncherPlus USB device to wirelessly connect to the workspace as well. offer users complete cable-free connectivity to a variety of devices. It allows to display up to 4 screens simultaneously. Tools such as Collaboration-moderation and screen preview, Cross platform screen mirroring (which supports iOS, Android, Windows, MacOS, Ubuntu, Chromebook, Airplay and google cast), wireless file sharing turn NovoTouch into a truly collaborative solution to engage all participants in the meeting.

If you have to name one single component, which makes NovoTouch an award-winning product, what would it be?

To talk about only one single component will be tough as NovoTouch is a Solution Box. One add on feature which NovoTouch comes with is that it has built-in Digital Signage application. With this, it supports a variety of online content like Twitter, RSS feed, weather information, IP streaming, webpages and cloud signage, besides supporting various file format like video, audio, images etc. to multiple displays from one server or cloud.

Which specific market segments are you targeting with the NovoTouch?

Interactive displays have now become a necessity for collaboration and act as an

integral part of our business, educational and personal lives. Interactive displays that were once recognized by those ahead of the technological curve, have now gained mass market acceptance.

Talking about specific segment for NovoTouch, Education is one where there is a sudden rise in demand for interactive whiteboard in schools, institutions, and universities. These displays are useful for learning and teaching. The interactive display allows teachers to share text, screen, video, and audio files with students easily.

The other segment is Corporate Sector, where we have seen a consistent demand in interactive displays for wireless collaboration and file sharing.

It is safe to say that Delta has a major share of the DLP video wall market in India. What was the strategy you adopted to capture this market and would you be employing a similar strategy to win the interactive display market?

Yes, Delta leads the DLP Video wall market in India. Delta, now a US\$9 billion group, has always been focused to innovation and systematically developing new products

The demand for Interactive panels should increase post Covid era, as social distancing regulations will be expected to be in place when schools, colleges and offices reopen. Administrator and moderator will require technologies that make it easier for all participants to communicate and collaborate more effectively.

and technologies, thus making us a leader in the technology domain. We have our own manufacturing hub in India and offer turnkey solutions to our customers which enabled us position ourselves advantageously in the regional market. That has understandably contributed to our success journey.

Besides, Delta has always laid emphasis on uncompromising quality parameters, so the products rolled out onto the market, deliver incredible performance making it a compelling solution. Then, of course, is our after-sales-support complementing the technology deployment. For, a great technology and a great performance would not win the

customer confidence if they are not backed up by after-sales support, so we lay equal emphasis on that aspect as well.

We intently continue to pursue the success formula for interactive displays as well.

Do you see demand for interactive displays continuing post-covid era or do you think it will be hindered due to factors such as unavailability or rising cost of materials etc.?

The demand for Interactive panels should increase post Covid era, as social distancing regulations will be expected to be in place when schools, colleges and offices reopen. Administrator and moderator will require technologies that make it easier for all participants to communicate and collaborate more effectively. Vivitek's Novo Ecosystem allows users to easily share content from their personal devices to larger screens, offering flexibility that encourages interaction and enhances discussion. For instance in schools, the screen sharing feature in particular could easily be utilized to divide students into small groups to collaborate while maintaining social distance.

To further maintain social distancing, schools and universities can utilize digital signage systems to centrally design, publish, and manage messages or learning materials to multiple displays at the same time. It offers the potential to completely transform traditional classrooms by allowing classes to work together from different rooms, and also provides a means for broadcasting important information.

What are the company's short and long-term goals for the Indian market in terms of product development and deployment across your different verticals?

For a plain matter of confidentiality, we would not be able to share the roadmap or specifics of our action plan. But yes, with the kind of investments that Delta is making in India, the future looks very bright. Our focus is on continuing the leadership position in the display industry which we currently have. We dedicate adequate time and resources towards expanding market presence for Vivitek line of products.

What is the greatest challenge that you envision in the year to come and how do you plan to address these challenges?

I think the greatest would be to get back

on our feet and try to regain the pace which we had acquired over the years. The pandemic has sure put us back by at least 2 years and it will take a lot to recover from that. So our first challenge as well as endeavor would be to recover lost ground.

Any new innovation from Delta/ Vivitek that the industry can look forward to in the near future?

Talking about Vivitek, we had recently

launched the NC-X700 and the NC-X900 to Vivitek's range of NovoConnect devices. Both add-on devices are ideally suited to those who already have a screen or a projector, but wish to enhance or extend their existing AV infrastructure with wireless presentation functionality, or maximize their screen use with digital signage. These new models stand out in the market for facilitating more than just a wireless connection, and instead offer true collaboration. Users of the NC-

X700 and the NC-X900 are able to share their content wirelessly from any device to the main screen.

For enhanced convenience, NC-X700 and the NC-X900 users can also connect using the Windows 10 Miracast. In addition, NC-X900's dual-WiFi capacity enables native Windows (Miracast), Mac OS and iOS (Air-Play), and Android (Google Cast) mirroring, eliminating the need of installing any software. This will be the future of collaboration.

BANKING ON EYTE

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Since Information security in banks is a prime area of concern, security aspects were on top of EYTE's priority list while designing the solution. EYTE maintained security policies & norms and to mitigate risks, designed a solution, by creating separate VLAN for AV devices connected in the Client network & registered device details in the network. EYTE also provided access for Remote Programming support through Client network to load & test the program in live environment. "Client got a seamless working experience as per their AV standards across all global offices," says Waheed.

According to **Saurabh Saroj**, PMP, ITIL, CloudU ISE - Facility Technology Services, "I rate EYTE very high on their technical expertise. Having hands on install and programming experience helps them understand issues and guide integrators on how to fix these issues."

Nowadays cafeterias are not only used as dining areas but also used for Town hall sessions and much more. A well-run town hall could boost productivity, engage employees, and develop organisational culture. In order to fulfil these requirements, EYTE recommended a solution with motorized projection screen, **QSC** for Audio systems, **Cisco** SX80 for Video conferencing, **Crestron** for Automation, Live Streaming, Triple play for IPTV playback, etc. The solution also allows VC collaboration through PTV distribution over Corporate network to any branch location or within the office as well. This way the entire branch office is now a part of the town hall sessions. "They know our standard, framework and terminologies so well that we reach them at all time to understand it. They completely justify the role of the consultant on board,"

says Saroj.

As per the brief provided by the client, the requirement was for a cloud-based digital signage platform that could help design and schedule easily from the web and which would come with features like Use and reuse content, Security, Content Adaption, Custom Widgets, Plug and play, Straight-forward Dashboard, Mobile Enable Management, Drag and Drop layout editing etc. EYTE recommended a solution, which runs digital signage or IPTV content on areas like Workstations, Collaborative Spaces, Social hub, Transportation, SOC Rooms with just displays, and multimedia players operated from a centralized location while also taking care of security norms. "I compliment Abdul and everyone at EYTE."

"Equipments used in the project are as per the UBS global standards guidelines, that includes Crestron for automation, Lutron for lighting and dimming control, Shure ceiling tiles enabling audio pickup from room as per the lobes designs along with QSC digital sound processors. Bright sign digital signages equipments interacting with centralised server making it possible to have content anywhere in the workplace. Panasonic projector are used with Dalite screen in town hall areas, video reinforcements are done with Samsung displays of various sizes according to room designs. Small meeting rooms are equipped with Jabra USB microphones for sound making it soft VC rooms," says Abdul Waheed.

Having them on board makes our life a lot easier in the AV area which by and large is unknown territory for us," reiterates Saroj.

End Result

The project to equip UBS office in Pune was completed in March 2020, within the

time constraints set and within budget and has resulted in a number of benefits for the client.

The outstanding service and support from EYTE as the AV Consultant on board, ensured state-of-the-art AV solution installation in the UBS office, with minimal challenges and great results.

"The overall vibe of the office impresses clients when they walk in and employees are excited to experience a more interactive environment that shares the creative nature of the company," says Waheed.

Considering the success and efficiency of the solution and the quality of EYTE's services, UBS has now offered a second project to the AV consultancy in its Hyderabad office.

"EYTE's integrated AV solution has produced a cutting-edge, collaborative working environment for employees, partners and clients to communicate and trade across our client's global network of financial operations. We completed this landmark project on time, within the budget and according to the strict specification of the client's global team," enthuses Waheed. "Technology is moving at very fast pace. Installs done 5 years ago look outdated. From conventional VC to soft codecs, from wired table microphones to ceiling microphone arrays, from 1.2-megapixel cameras to 20 megapixel cameras, everything has changed and has been adopted very quickly. At EYTE, our designers are always on their toes, learning new technologies and implementing them in their designs. At UBS large videowalls, softcodec VC, Wireless ceiling microphones, centralised push of content etc. makes it at one of the best technology installs," he concludes.



EULOGY

RANJIT SINGH

CTS-D, CTS-I; AV-ICN CAVS Instructor

1967 - 2020

Much-admired and acclaimed AV consultant, educator, speaker, trainer and AV-ICN CAVS instructor, Ranjit Singh, passed away on May 15, 2020 in Singapore leaving behind a huge void within the global AV industry.

Singh began his career as a service engineer at Philips Singapore, followed by a stint at Deca Audio Visual as technical manager, before he founded RST Technologies in 2004.

Coming from an Audio-Visual background, and through his deep pedigree in delivering prestige projects throughout Asia, he had an unsurpassed reputation in the market. Recognising the importance of technology in wellness, Singh expanded his areas of expertise into IT infrastructure, acoustics and user experience.

He was a passionate technologist with an emphasis on quality and almost three decades of consulting experience in technology projects and programs.

Having delivered these projects for almost every industry sector throughout

Ranjit Singh flag bearer of Independence; Indeed AV-ICN CAVS flag-bearer too!

I respect the man, not for his knowledge of AV, such that the leading AV companies in the world sought his services, but I respect him for his sense of values. I respect him for his genuine feelings "to give back to society" in jumping spontaneously to my call to come to PALM and AV-ICN to participate in CAVS education. What I respect him for most is his sense of independence.

Ranjit Singh did not mortgage his masterly knowledge of AV nor his career and opportunity to become renowned on international platforms and his recognition to be a respected part of forums and conferences. He had self-esteem and was rightly cynical of anything he might gain from "being approved". He had a perspective of his own worth and despite pressures he did what his ethos told him. Give back to society and support education in India - CAVS certification course in AV-ICN.

I've known him since 2011 and his large frame with a Singaporean accent, spiritual and mild manners. Never a raised voice, never abrasive, unconscious about his appearance. And he worked from 3.30 am to 10 pm daily. He was on a work video call when he collapsed. Mild mannered but extremely hard working. We owe gratitude to him for his brave decision and support to India's AV platform. When I told him so he just nodded sideways and with a wave of his hand dismissed my expression of gratitude "I don't depend on anything, when is the next CAVS?"

The next CAVS is dedicated to the memory of Ranjit Singh.

Anil Chopra



"Predictive analytic technologies will be able to process information from IoT devices, which help the industries to design better space in the future. We may also find some emerging market countries leap-frogging their peers by avoided 4G altogether."

Ranjit Singh

Asia, this wide range of experience provided him a unique insight into current, emerging and future technology trends for the enterprise.

In his last role as Principal Consultant for Workspace Technology and Experience at PTS Consulting Singapore, he delivered Strategic Workspace projects ensuring a robust, future-proof technology infrastructure underpins the experience of the space.

Ranjit Singh was the first Asian to achieve the CTS-I certification and he believed in sharing his experience and knowledge to support the industry. Singh was very interested to give back to the community in India. He was highly motivated to teach and spread knowledge to the AV industry at large. His passion motivated him to share his experience with over 2,000 attendees attending his training courses in Asia.

Ranjit Singh served as instructor for the AV-ICN CAVS training and spearheaded the three-day CAVS course at the AV-ICN expo 2019, which focused on AV in the Digital Era. His aim for the course was for the attendees to leave with an understanding on the technology and trends that are driving today's meeting spaces. This three day session saw a full-house attendance with 40 industry professionals registering for the course.

In his RST Technologies offices in Singapore and India, he mentored and nurtured new talents in the AV industry.

Abdul Waheed, Managing Director at EYTE Technologies Pvt Ltd. who started his AV industry journey with Ranjit Singh's RST Technologies pens a heartfelt, tribute.

"Mr. Ranjit Singh was deeply loved by Pro AV community in India and Abroad. It is his huge loss and can't be put into words. In addition to Industry, those of us who had the opportunity to work under him will also feel a tremendous loss. We have got an opportunity to work with him for 8 long years since the inception of RST in 2010.



Abdul Waheed (second from left) and his team at EYTE technologies with Ranjit Singh at the AV-ICN expo 2019



Ranjit Singh was also the instructor at the Kramer tech class conducted at PALM expo 2011

Till few years back he was the only Asian to be CTS, CTSI and CTSD certified all together at once. With all his credentials he never boasted in front of others. He was always remained simple and humble and a strong believer of God.

He was also a great teacher and mentor. He guided and trained many professionals in the Industry. He was extra ordinarily intelligent, great visionary man & very passionate about technology. His exceptional work ethic, and commitment will always be remembered. I feel this is a great personal loss to me as he was my mentor at every stage of my professional life.

I spoke to him the day before he passed away. When I was acknowledging his contribution in my career, he very gently said that his job as a mentor was to bring out hidden potential; if that worked it was because of the individual alone, but if it fails then it is his failure. He always used to tell me that no one is indispensable, and we need to be ready for this, I am feeling those lines with very strong



Ranjit Singh handing out certificates to delegates after the completion of the three day AV-ICN CAVS training and test

impact now.

I will never be able to fill this irreparable loss. I feel lot of burden carrying his legacy. Good bye to a great mentor ever!"

**Kuldip Kamat***Managing Director - Allwave AV Systems*

DIGITAL CAFETERIA TO CREATE RICH EMPLOYEE EXPERIENCES

As the world goes digital, it becomes increasingly important for us to keep up with this fast-paced world. Companies are looking for digitized workplaces, so why can't the cafeterias be digitized too?

In the modern corporate world, the cafeteria is not just a place to sit and have some meals, it is becoming a hub of communication. Equipped with the latest technology, a modern cafeteria is now a place for employees to connect and collaborate.

Positive, productive work environment and a healthy corporate cafeteria are essential to every business. More and more companies are looking at corporate dining programs to support business goals. Food is no doubt the main attraction, but the cafeteria space also plays an indispensable role in creating a relaxed ambience.

Organizations focus on cafeterias because they want to give their employees an incentive to stay back and also be more productive when they engage with their co-workers.

Studies have proven that digital cafeterias with the latest technology enable employees to be more productive. It also enables employees to exchange ideas with their teams and return to work rejuvenated. Leaving the workstations for short breaks is important to keep the limbs and joints fit and also to keep the mind more refreshed.

Moving away from the workstation gives the employees time to relax, destress and communicate. It helps them increase concentration and keeps them focused. Organizations today are keen on maintaining an enthusiastic environment and modern, tech-savvy cafeterias are a good way to accomplish that goal.

Let's understand in some detail how digital cafeterias have grown to be beneficial for employees as well as organizations.

Digital Displays

Having displays in cafeterias will help you to display daily menus, rolling text or company news. It also enables you to play videos. With Digital display you can organize entertainment and team building activities at very short notice.

Digital Menu Boards

Digital Signage Menu Boards offer greater capabilities than traditional menu signage. You can include the images of menu choices, interactive features such as order entry, item modification, nutritional information, and promotion of healthy dining options. They allow menu changes and pricing revisions that can be automated or easily implemented manually.

*Financial services technology company Fiserv's cafeteria in Pune**Swiss multinational investment bank and financial services company UBS' new office cafeteria in EON IT Park in Pune**Software and Consultancy company JDA Software Inc's, cafeteria at their newest Centre of Excellence in Hyderabad*

Allwave helps clients create a multi-use digital cafeteria which can also be used for meetings, corporate events and town hall events as and when required. With a digital cafeteria, when necessary, the same space can also be used for leisure activities like corporate parties. In pics recent Digital Cafeteria installations by Allwave

Projectors

Corporate Cafeteria projectors should be of high-resolution so that they can be used with a wide variety of content sources, such as DVDs and other streaming media from a content server. Projectors can be used in the main cafeteria space to display content for both large group presentations and small interactive sessions.

AV system

For ideal sound clarity during presentations, always use a dedicated audio system that is separate from the building's overhead paging system. Such systems provide zoned distribution and can be programmed to prevent interruptions from the paging system that is used for information announcements.

AV-ICN_x

AV INTEGRATION COMMUNICATION NETWORKING

YOUR CONNECT TO THE AV INDUSTRY

2018 - 2019



2019 - 2020

The New Expression



AV Consultants and Systems Integrators,
inform us about your latest projects for coverage in AV-ICN_x magazine

www.av-icnx.com

SAMSUNG

QLED Q950

Earlier this year, Samsung Electronics introduced its next-generation QLED 8K line offering a glimpse into the future of display technology. The line's new, flagship Q950TS QLED 8K TV, which is reportedly the first TV true-to-life 8K resolution and a stunning, ultra-thin form factor.

The Q950 reportedly practically eliminates the bezel around the display to create a screen-to-body ratio of nearly 99 percent, the largest in the market. In addition, the Q950 is only 15 millimeters thin across the entire display.

The Q950 leverages the power of AI to ensure that nothing distracts viewers from their content and can also adjust the volume of dialogue in response to common sounds like a blender or vacuum cleaner. The Q950 is uniquely capable of using its built-in speakers as an additional audio channel when connected to a 2020 Q Series soundbar like the Q800.



KLARK TEKNIK

DM8500

Designed for installed use in corporate environments and hospitality venues, the Klark Teknik DM8500 provides 128 channels of Dante digital audio networking for computer-based conferencing systems using embedded USB, and can control and monitor external devices using built-in Ethernet and RS232 ports.

At the heart of the DM8500 is an advanced digital audio processor designed around an open architecture format, allowing system integrators to create systems that are expandable, and virtually future-proof. Configured using DM Designer software, the entire signal and pro-



cessing structure can be defined and compiled on a PC and then run within robust onboard DSP. Processing modules include dual redundant Dante/AES 67 compatible 64x64 network audio transport; Ultranet 16 channel digital audio transport output for use with compatible devices; 24 freely assignable wideband AEC processors; class compliant driverless USB audio IO; 16GB SSD media record and replay engine Mixers; Auto Mixer; Equalisers; Feedback Suppression; a variety of audio filters, and much more. DM8500 provides an audio toolkit.

For meetings, conference calls and courtrooms that require the use of multiple open microphones, the DM8500 Auto Mixer and Feedback Suppressor modules automatically adjust and balance levels for multiple inputs and combine them into a single output.

UNICOL QUAD TOTEM KTC8QFST

British AV mount manufacturer, UNICOL's new digital signage system, the quad totem KTC8QFST is designed to transform LG's latest 86" stretch screens into a four-sided advertising powerhouse. The totem offers end users the opportunity for content to be seen above the crowds and from all angles in retail, event or transport environments.

This four-sided digital signage totem stands at an impressive 2.5m tall ensuring at least one screen is in view at all times.

Utilising the Obelisk Digital Signage System's adaptability, the quad totem features the classic column style enclosure that encourages quick and easy assembly. Designed, manufactured and tested in-house in Oxford, UNICOL ensures that the installation process is seamless and optimised for just two people to assemble. As with the rest of the Obelisk Digital Signage System range, this solution is also available in a single screen or back-to-back variation and as either freestanding or bolt down.



MUXLAB NETWORK CONTROLLER 500812



The MuxLab ProDigital Network Controller is a Linux-based PC that allows users to control hub-installed MuxLab products via an Ethernet Web interface.

MuxLab's new Network Controller 500812 brings together all MuxLab AV over IP-connected equipment installed on a local area network (LAN), making each device accessible from anywhere when using the MuxControl App on a smart phone or tablet. It runs on a Linux-based system that provides a user-friendly web interface designed to simplify complex AV tasks.

The Network Controller's auto-discovery feature scans the network and automatically identifies all MuxLab AV over IP equipment. Users can then easily configure and control these products and their connected devices such as sources and displays through the Controller. Users can create everything from expansive video walls and virtual matrixed systems to more simple AV installations. The Network Controller can also send RS232 and IR commands to Muxlab AV over IP devices to turn connected AV equipment on and off, such as sources and displays.

The Network Controller works hand in hand with the MuxControl App, also designed by MuxLab and available for both iOS and Android. MuxControl also supports configurable virtual handheld remote controls with unique button configurations that enable users to customize their remote controls with button shapes, colors and more, then customize what each button controls, putting creativity and control in the hands of users and integrators.

EXTRON XPA U 758

The Extron XPA U 758 is an ENERGY STAR qualified audio power amplifier delivering eight 75 watt channels in a half rack, 1U, convection cooled, plenum rated enclosure that includes rack mount hardware. The XPA U 758 offers unprecedented power and channel density with the ability to install units without using rack spaces for ventilation, conserving precious rack space. It features a highly efficient advanced Class D amplifier design with power factor correction, ultra low inrush current, defeatable auto standby with fast wake up, and our patented CDRS – Class D Ripple Suppression.

The XPA U 758 is reportedly the industry's first eight channel, half rack amplifier. Since it doesn't require empty rack spaces for cooling or external transformers, the XPA U 758 can deliver up to eight times the channels in two rack spaces compared to competitive amplifiers. This is made possible by Extron's advanced thermal engineering, which includes fanless convection cooling, no chassis heatsinks, and Everlast power supplies. The cumulative effect of hundreds of precise design choices enables many XPA U 758 units to be placed in an equipment rack without the need to waste rack space for ventilation above the amplifiers.

Key Features include:

- 75 watts rms output power per channel at 8 ohms
- ENERGY STAR qualified amplifier
- Extron Patented CDRS - Class D Ripple Suppression
- Convection cooled, fanless operation - can be stacked without extra rack space for ventilation
- New Eight channels in a 1U, half rack width enclosure - rack mount hardware included
- New Defeatable auto-standby with fast wake up



ATLONA VELOCITY 2.0

Atlona's Velocity 2.0 is being touted as the next generation of the AV industry's first fully IP-enabled platform for AV control, room scheduling, and asset management. The latest Velocity System platform reportedly offers a flexible new architecture to support various room and application requirements. Atlona's latest Velocity System design innovations further simplify how consultants and integrators plan and scale AV control system designs, covering everything from single room to enterprise-wide installations utilizing a streamlined, IP-based architecture. The new release integrates several new and important capabilities at no extra cost, including room scheduling, unlimited BYOD usage for AV control, integration with leading soft codec platforms (Zoom Rooms, Cisco WebEx), AV asset management, and remote monitoring and management from the cloud.

Velocity 2.0 valuable benefits include Integration with Atlona OmniStream AV over IP, Omega presentation and collaboration products, and Opus HDR distribution and matrix products with a focus on video wall management, source routing, and ease of use for system users and integrators.

A key feature includes speed and accessibility that represents Velocity's ease of use when managing AV operations over IP networks. Installers and end users can further simplify the transition to all-IP AV control, enable holistic management of AV components, and execute fast, conflict-free room bookings in meeting spaces and venues.



PEERLESS-AV 65" XTREME XHB652-EUK

The new 65" Xtreme High Bright Outdoor Display (XHB652-EUK) features an all-weather IP66 rated design, as well as Peerless-AV's patented Dynamic Thermal Transfer System, bringing an extended size offering to the growing DOOH market. The 65" Xtreme High Bright Outdoor Display includes cover glass that is optically bonded to cut down on glare and provide amazing picture quality, even in direct sunlight. The display's integrated ambient light sensor automatically adjusts the display's brightness to optimize the power consumption and enhance the overall viewing experience.

Xtreme High Bright Outdoor Displays are perfect for applications including mass transit, stadiums, theme parks, retail, quick serve restaurants (QSR), corporate applications, education, hospitality etc.

Key Highlight features includes:

- Operating temperature range of -35°C to 60°C
- Optically bonded, anti-reflective cover glass
- Daylight readability with an LED backlight and full HD 1080p resolution
- Includes Quarter Wave Plate polarizer, allowing for portrait and landscape installations
- IP66 rating and fully sealed design prevents ingress of foreign materials, such as water, dust, moisture and insects, from entering the display
- IK10 rated, impact resistant, tempered cover glass helps to protect the screen against vandalism and debris
- Remote and local monitoring, supported via IP addressable user interface, for temperature, humidity, and power draw diagnostics of the display
- Includes a Peerless-AV Outdoor Flat Wall Mount to provide a safe and secure installation



RF VENUE DISTRO9 HDR

Earlier this year, RF Venue, the global leader in antennas, spectrum analysis and RF signal management tools for the professional audio-visual industry, announced immediate availability of its much-anticipated DISTRO9 HDR antenna distribution system, designed to provide system integrators and end users with a powerful new tool for configuring multi-channel wireless microphone systems.

DISTRO9 HDR's proprietary architecture can connect up to 9 wireless microphone receivers with two zones of antenna coverage built-in. With superior gain flatness and high dynamic range across VHF, T-Band, and UHF, the DISTRO9 HDR comes ready for multi-band wireless microphone operation in a compact 1RU footprint. Any of its clean, low-

noise diversity outputs can be cascaded to another DISTRO9 HDR, for up to 17 channels of wireless microphones in just 2RU of rackspace. Multi-zone installations are easy with the DISTRO9 HDR's two zone antenna inputs, providing coverage for large areas or multiple rooms, each with switchable DC power available for in-line amplifiers or active antennas.

Featuring a robust internal power supply, the DISTRO9 HDR can provide clean DC power to wireless microphone receivers with an optional DC cable kit, and can also be powered directly from a DC battery source for location sound cart applications.

The DISTRO9 HDR is now shipping and available from all RF Venue authorized dealers and distributors worldwide.



THE ELECTRIC CANVAS LIGHTS UP NATIONAL CARILLON WITH CHRISTIE CRIMSON PROJECTORS

The National Carillon, a 50-meter high musical instrument, is situated in Australia's national capital, Canberra. It sits on Aspen Island in Lake Burley Griffin, connected to the northern foreshore by a pedestrian bridge. It was a gift from the British Government to the people of Australia to celebrate the 50th anniversary of the national capital and was officially opened by Queen Elizabeth II in 1970.

Fitted with 57 bronze bells, the National Carillon is played on a regular basis during the year by both local and visiting carillo-

was celebrated entirely online in light of the COVID-19 pandemic. The theme for this year was 'In This Together', which highlighted the importance of coming together to support each other in a shared experience, whether in a crisis or in reconciliation.

Laying the groundwork

TEC surveyed the Carillon and created a wireframe model in order to plan a projection layout.

The structure was to be activated over

to develop their pieces for projection. Their experience working with Indigenous and culturally sensitive content was a valuable asset for the project.

"Culturally sensitive work with a lot of stakeholders involved usually takes months," says Peter Milne, managing director, TEC, "but we decided to take on the challenge. The first step was briefing the participants and explaining how a projection on this type of structure works; it's not just putting someone's painting up on a flat wall. The Carillon is 50 meters high and made of three triangular columns that are six meters wide on each facet." The design process was also challenged by the need to consider viewing angles and distances that varied from 100 to over 850 meters, around the shores of Lake Burley Griffin. Key messaging had to consider all the possible vantage points, and TEC had to educate the contributing artists and stakeholders on what the opportunities and limitations were with regard to the content.

As the COVID-19 situation improved in Australia, the NCA made the decision to reopen Aspen Island to limited numbers of people during the event, so TEC had to allow for very close proximity viewing. "This created an opportunity to present something more intimate, with a lot of detail, that could be seen close-up," relates Milne. "The tower locations were chosen to provide a clean shot at an internal facet. This allowed us to project text and explanatory items on an internal facet that you couldn't see from anywhere else."



'Reconciliation, a continuing journey of growth and togetherness', based on artwork by Nikita Ridgeway, with narrative created by Reconciliation Australia

nists. It is often used to celebrate national days and performances are staged in conjunction with other events such as Australia Day. The iconic landmark's unique tower-like structure makes it an ideal venue for outdoor projections at night. It was for this reason that Christie's valued Australian partner, The Electric Canvas (TEC) – well known for its experience and expertise in large scale events – was approached by the National Capital Authority (NCA) to develop architectural projections on the Carillon's façade in support of National Reconciliation Week 2020.

Each year in Australia from 27 May to 3 June, National Reconciliation Week celebrates and builds on the respectful relationships shared by Aboriginal and Torres Strait Islander peoples and other Australians. The eight-day celebration is an ideal opportunity for all Australians to learn about their shared histories, cultures and achievements, and to explore how everyone can contribute to achieving Reconciliation in their country.

With the exception of the Carillon projections, National Reconciliation Week 2020

eight consecutive nights during National Reconciliation Week, with each night dedicated to a different Indigenous organization or in observation of key dates. Over little more than two weeks, TEC's creative department engaged with eight separate organizations, as well as Indigenous artists, in order



'2000 Walks for Reconciliation – In this Together' with montage of various photographs by Glenn Campbell/Newspix, News Ltd/Newspix, Brian Condron/Newspix, Richard Cisar Wright/Newspix. Narrative created by Reconciliation Australia

Bright and impactful projections

With all preparatory work completed, the next important step was the selection of appropriate projection systems that could deliver the optimal visuals at all vantage points. TEC chose to deploy 12 Christie® Crimson 3DLP® laser projectors from its fleet to deliver the bright, impactful projections onto the Carillon.

"We decided that the Christie Crimson projectors were the most suitable for this task. Not only are they engineered to withstand the rigors of demanding, high-usage applications with an IP5X-sealed, solid-state laser light source, they are also energy efficient and deliver a superior color gamut. These make the Crimson projectors the perfect tool to highlight the brilliant hues of the

content and the important messaging that it conveyed," says Milne.

TEC set up four projection towers, with each of them housing three 25,000 lumen Christie Crimson WU25 laser projectors running in portrait mode. Media was handled by TEC's Modulo Kinetic media server system with full hot back up. After an additional night of projector alignment, TEC conducted a content review for stakeholders, which also provided an opportunity for drone footage to be captured by the NCA.

With no shelter on Aspen Island, it would be an unpleasant place to work in cold and windy conditions. Fortunately, TEC was able to set up their site office in the comfort of the viewing gallery atop the Carillon and, from there, the operator could monitor the entire 360-degree projection from cameras mounted in each of the projection towers.

Sending a strong message across the country

On each night, the Carillon showcased a different image overlay by important messages about the nation's journey to Reconciliation. The first illustration that kicked off this year's event was titled 'Reconciliation, a continuing journey of growth and togetherness' by Nikita Ridgeway, with narrative created by Reconciliation Australia.

The artwork's vibrant colors and design elements represented Australians together on a national journey of Reconciliation, while paying homage to the past and recognizing the present. Images projected on the national landmark on the other nights, created by various talented Australian artists, also delivered strong messages of bringing

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XILICA SOLARO SERIES DSP INSTALLED AT HUTONG

Dubai is experiencing the power of exceptional audio with a Solaro Series DSP installation at Hutong, a high-end Chinese restaurant located in the busy Dubai International Financial District.

Installed by Levels, a regional integrator specializing in the hotel, bar, restaurant and nightlife sectors, the project leverages a Solaro QR1 DSP to process and manage analog and digital audio across two floors.

Levels was brought into the ground-up construction project early, and carefully specified the audio system to live on the main IT network and complement the architectural design. The Levels team selected the Solaro QR1 for its price-to-performance ratio and compact design, providing a high-quality, cost-efficient and space-saving networked DSP solution ideal for fine dining environments.

"The Solaro Series is our preferred choice for our hospitality installations, and the Solaro QR1 offers the same powerful signal optimization and programming flexibility as larger Solaro DSPs in a far smaller form factor," said **Daniel Ball**, Partner, Levels. "It's an ideal solution for restaurants with modest I/O requirements for a select number of zones. And since we were dealing with limited real estate for AV systems, the Solaro QR1's quarter-rack-width footprint addressed our physical integration concerns."

The Solaro QR1 manages analog and digital connections across multiple zones, processing Dante digital audio for the livelier



The Solaro QR1 manages analog and digital connections across multiple zones, processing Dante digital audio for the livelier public dining and bar areas (public and private), and analog audio for secondary spaces including private dining areas, restrooms and an outdoor terrace

public dining and bar areas (public and private), and analog audio for secondary spaces including private dining areas, restrooms and an outdoor terrace. Live DJs in the bar area plug straight into the network via a Dante injector, with most background music coming from standalone media players in the central equipment rack. Ball adds that Xilica DSPs are built with the IT network in mind, which eliminates many upfront concerns from IT integrators about AV system interoperability. That was especially important in this installation since Xilica would live on the main IT network, versus being segmented on a separate network to process audio streams.

"We worked closely with the IT integrator to develop a controlled environment with a layer of switching for the AV equipment," said Ball. "The Solaro QR1 lives on the gener-

al campus network without affecting general IT traffic, and quietly processes and controls audio signals in the background." The Solaro QR1 feeds Powersoft Audio and Sonance amplifiers co-located in the same equipment rack, with loudspeaker systems from Pioneer Pro Audio, Powersoft and Sonance reproducing audio in the various zones.

Hassan Alwan, Managing Partner at Levels, said that the overall systems design goal was to provide simplicity for the Hutong staff, and the DJs that plug into the system. "There is a controlled philosophy built into the entire system that provides simple, zone-by-zone control elements for the entire restaurant. The Solaro QR1 is an important part of that simplicity and user-friendliness, without any sacrifice to audio quality and the hospitality experience."

MUMBAI BASED ACTIS TECHNOLOGIES CREATING SMOOTHER COLLABORATION EXPERIENCES

The client (*Client particulars for this Case study have been withheld for privacy reasons*), a leading global provider of financial services which caters to the medical, academic and governmental fields were looking to create several collaboration spaces including Presentation Rooms, VC rooms, Training Rooms and a Multi-purpose cafeteria space for greater flexibility especially with larger audiences. There was a very tight time-frame for completion of this project, which increased the complexity of implementation. The client wanted to provide their teams with better tools for collaboration and Actis was engaged to design and implement solutions to support this.

As a leading global financial institution, the client wanted to create infrastructure which would lead to smoother collaboration. The Actis team designed and implemented a solution which integrated AV, control and collaboration tools that lead to more effective work interactions across the organisation.

THE SOLUTION

The organisation placed great emphasis on flexibility in their collaboration spaces — making them highly adaptable for use across different functions and room sizes. Actis helped create several types of collaboration spaces including Presentation Rooms, VC rooms, Training Rooms and a Multi-purpose

cafeteria room. One of the most unusual elements of the project was the creation of 4 training rooms and a 2-section cafeteria which can be combined to create one huge 430 seat Town Hall space. Of course, each individual room can also be cordoned off for use by smaller groups when required.

The Digital Cafeteria is equipped with projectors combined with 119" roller screens that provide high visibility for content to the participants in this section. Video conferencing has also been enabled in this space with hardware based VC systems — our team has incorporated a Panasonic camera along with Cisco TelePresence SX80 codecs. High-quality AV switching is possible with the Crestron DigitalMedia matrix switchers. A DSP has also been incorporated to ensure clarity of audio, especially during VC calls. Crestron control processors teamed with a touch panel interface make device and environment control simpler in the rooms and also allow a fair degree of automation.

The use of custom programmed presets

makes it easy and fast for the facilities team to manage room transitions. The equipment racks for all 6 rooms have been located in a section of the cafeteria. Each Training Room is equipped with a large Samsung QM98 display, which can be accessed via connectivity interfaces. The podium also features a touch panel control for managing various aspects of the AV setup. Ceiling mounted speakers



The Multi-purpose Cafeteria adapts to changing requirements

and microphones are combined with a Biamp DSP to ensure perfect audio quality even in video calls. Video collaboration is possible, and the rooms feature both front and rear cameras for this. The training rooms can be separated with sliding partitions for smaller groups or combined with adjoining rooms when a larger audience is involved.

Actis also created several Presentation Rooms which have a more basic setup and support smaller groups. This includes smaller 4 seat huddle rooms which have a 49" display, button panel and cable cubby for connectivity. There are several larger 6 seater and 14 seater VC Rooms where video conferencing is also supported. These rooms feature a larger 65" inch display and use the Cisco Room Kit for VC. This is an integrated unit which consists of the display, camera and audio system required to make video calls. In the larger 14 seater rooms additional table-top microphones, cable cubbies and speakers have also been incorporated to ensure every participant is clearly audible. A higher level of control and convenience is provided in these VC rooms with a Crestron control system.



The Multi-purpose Cafeteria – Has 2 divisible sections and can be combined with 4 adjacent Training Rooms

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KOCHI SMART CITY COMMAND CENTRE EQUIPPED WITH DELTA VIDEO WALL SOLUTIONS GOES LIVE

Leading provider of video wall solutions, Delta, has successfully set up a large-scale Video wall for Kochi Smart City in its Integrated Command Control & Communication Centre. Kochi Smart City has India's first integrated command and control communication center (IC4) which is completely deployed on cloud. The IC4 will be the brain for city operation, exception handling, and disaster management. It will also provide insights by processing complex datasets at

wall: 391sqft Delta video wall, made up of 27 screens of 70" each, in 9x3 configuration and 116sqft Video wall, made up of 8 screens of 70" each in 4x2 configuration. A large Video wall installed at the centre will help to response to situations, both proactive and reactive that will truly make the city operations "SMART". Delta's Video walls with windows based Control system at the centre will be for monitoring and surveillance. CCTV cameras installed in public places across the

than we had anticipated." Commented CSML Official.

Amidst the Covid-19 pandemic, Delta Displays support team managed to install and complete the setup within tight deadlines. IC4 will be of immediate help to affected areas in case of floods or disease outbreaks. This will become the heart of Kochi smart city for monitoring, maintaining and addressing the needs of millions of people with quality services and facilities. The IC4 and



Kochi Smart City Command Centre

an aggregated level to derive intelligence for improved planning and policy making.

Kochi, city in Kerala, India is among the first 20 cities selected under Government of India's smart cities mission. The Smart Cities Mission (SCM) aims to rejuvenate the prevailing urban ecosystem through Area Based Development (ABD) strategies. The objective of the SCM is "to promote cities that provide core infrastructure and give a decent quality of life to its citizens, a clean and sustainable environment and application of 'Smart' Solutions".

Delta equipped IC4 with two sets of Video

city can be accessed from Video walls. The emergency services like, police, fire stations, other rescue services and LED Streetlights have been integrated with IC4. In the long-run other government services will also be integrated gradually.

"Being a 24x7 facility, part of which will be utilized for Covid-19 war room, was very critical to us and team Delta exceeded our expectations. Delta engineers were able to quickly install the setup and help us complete the project on schedule despite the state lockdown imposed due to the pandemic. The end-result turned out even better

adjoining war room both consists of Delta's Superior Video wall solutions. This is one of the best made smart city command centers in India in terms of scale, infrastructure, technology and functional aspects. Delta's LED video wall at the centre will support in monitoring operational parameters, anomalies, alerts/ events and help in a fast response by decision-making operators.

Shri Pinarayi Vijayan, Chief Minister of Kerala inaugurated Integrated Command and Control Communication Centre (IC4) under Cochin Smart Mission Limited's (CSML) via video conferencing on June 8 2020.

MUMBAI BASED ACTIS TECHNOLOGIES CREATING...

continued from pg.28

THE FINAL IMPRESSION

The new collaboration infrastructure designed by Actis has had a considerable impact on the adaptability of the organisa-

tion in different collaboration, learning and meeting scenarios. While individual rooms have helped provide more powerful tools for in-room and remote collaboration, an even larger impact has been achieved due to the

flexibility that they offer when combined. Facilities teams are able to react quickly to the requirements from business teams, to provide the functionality they need to support them in achieving smoother interactions.

HEWSHOTT EXPANDS INDIA PRESENCE; WELCOMES UDAYAN AR ON-BOARD AS NEW SENIOR DESIGN ENGINEER

As the world deals with the coronavirus pandemic, employees everywhere have become a casualty. Hewshott, however, continues to grow with the appointment of Udayan AR as Senior Design Engineer at the India office.

"We believe that our success is through our colleagues. Therefore, creating the right support structure for them to do their best work in is essential. There is no change in our pattern of hiring or salary packages. We will continue to hire for available positions," said Karan Jaitly, Managing Director of Hewshott India.

As a company, Hewshott has been using cloud-based unified communication and



Udayan AR

document management tools to conduct meetings and manage project flow with teams across the globe. These virtual solutions are now being used in their recruitment and onboarding processes as well.

Udayan stated, "I find this new way of working more of an opportunity for me as an employee to showcase my skills and explore untapped potential. As a new joiner in the company, I want to be an important contributor to its overall growth. Working towards mutual growth instead of personal success."

Udayan comes to Hewshott with over eight years of experience in the AV industry. He will be working out of the Bangalore office.

VUWALL LAUNCHES ONLINE CTS-ACCREDITED CERTIFICATION TRAINING PROGRAM

VuWall, a leader in video wall systems, announced its AVIXA accreditation of the VuWall Certified Specialist training program. Designed for system designers, technical sales, consultants, and field and service technicians, the training is now offered with live online sessions to qualified resellers several times each year in both American and European time zones. Resellers who complete the training can earn up to 12 renewal units (RUs) toward AVIXA's Certified Technology Specialist (CTS) credential after successfully completing written and practical exams.

"We've redesigned our certification training to be delivered online due to the global pandemic and the new way that many companies are doing business, while preserving a personal and hands-on approach using virtual

technology," said **Paul Vander Plaetse**, CEO at VuWall, "As the demand for video wall and visualization solutions continues to increase, we're committed to providing AV professionals with the training resources they need to expand their expertise confidently in order to design, configure, and maintain VuWall's video wall control systems."

VuWall's certification program is divided into three levels. Level III completes the certification training, enabling graduates to feel confident in being the end-user's first line of support for the VuScape and TRx systems, with a much deeper understanding of the processors and the centralized management platform. This course examines the database, video card information, maintenance, installation procedures, servicing, and trouble-



shooting.

VuWall already has 70 certified VuWall specialists from 35 resellers in 25 countries. VuWall's 3 Day Online Training Earns Resellers 12 Renewal Units toward AVIXA's CTS Certification.

THE ELECTRIC CANVAS LIGHTS UP NATIONAL CARILLON WITH CHRISTIE CRIMSON *continued from pg.27*

people together from across the country for conversation and to truly understand what Reconciliation means. The bright and beautiful projections resonated deeply with many Australians throughout the event.

Expressing his team's satisfaction with the quality of the projections, Milne comments, "The Christie Crimson projectors have quickly become our platform of choice. Not only does their form-factor and manageable weight make them easy to work with and deploy in unusual configurations, their

impressive color-space renders a greatly expanded pallet, opening the door to new creative opportunities."

Likewise, the NCA and all stakeholders were also extremely happy and impressed with the brightness and clarity of the projections. The amazing projections onto the National Carillon was a great exercise for the team at TEC, who were able to break the bonds of their COVID-19-induced confinement and have the chance to do what they love best!

Congratulating the TEC team on the

completion of this project, Michael Bosworth, executive vice president, Enterprise, Christie, says, "Despite the restrictions brought about by COVID-19, Peter and his team have once again risen to the occasion and delivered spectacular visuals at the National Carillon that all Australians can be proud of. We are also delighted that our Crimson Series projectors provided brilliant and intensely colorful images that encouraged all Australians to reflect upon the part they play – whether big or small – on our journey towards Reconciliation."

ADIYOGI DIVYA DARSHANAM WINS MONDO DR EMEA & APAC AWARD FOR TECHNOLOGY IN ENTERTAINMENT IN THE CATEGORY OF HOUSE OF WORSHIP

Since its unveiling in 2019 by President of India Shri Ram Nath Kovind, the Adiyogi Divya Darshanam has enthralled spectators from across the globe. In May this year, this one of its kind projection mapping show won the Mondo dr EMEA & APAC Award for Technology in Entertainment in the category of House of Worship.

One hundred and twelve feet tall, the statue of Adiyogi, which is the largest bust in the world and has its place in the Guinness Book of World Records, rises from the foothills of the Velliangiri mountains at the Isha Yoga Center in Coimbatore, Tamil Nadu.

The center appointed Axis Three Dee Studios Pvt. Ltd. to execute the entire project from start to finish, including the complete production of the visuals with CEO **Avijit Samajdar** taking the role of producer and director.

Axis Three Dee Studios brought this world record bust to life in a new projection mapping interpretation of the story of Adiyogi. The project which took three months from December to February for its complete installation was inaugurated in time for the Mahashivaratri festival in March 2019.

24 Epson 15,000 lumen projectors and WATCHOUT multi-display software enabled the Award-winning 14-minute projection show.

The Adiyogi Divya Darshanam project had already received a lot of press coverage

around the world and Avijit was approached by Mondo to nominate the project for the awards, which the team eventually won in the category of House of Worship.

The worldwide shortlisted entries besides the Adiyogi project were St. Joseph's College Chapel, York Minister from UK and Eglise Saint Denis Sainte Foy from France. The jury panel included, Andy Taylor from Gasoline Design, Ben M Rogers from Ardent, Scott Willsallen from Auditoria, Emma Bigg from Octavius Re, Kapil Thirwani from Munro Acoustics, Bas Scheij from Basz Design & Live Operating, Mogzi from Disguise, Philip Heselton from Signify, Simon Austin from Schuler Shook, Gareth Collyer from Nexo and John Hughes from Adlib. Commenting on the win, Avijit says, "From a creative point of view, when we create something, we always want people to like it, to feel a part of it and remember it. For that to be recognized all over the world and to be appreciated and awarded by experts who understand the technicalities behind a project of this magnitude, is immensely satisfying and gratifying".

According to Ashok Sharma, Regional Sales Manager, APAC, Dataton, the project was worth the award because the team was efficient and understanding in what they



were doing. "The project in itself has a great touch and was a story in itself which in its own space has won many hearts both in India and internationally. Thank you to the Team and Jury of Mondo*Dr 2020" to have considered us and awarded us with this prestigious award," quoted Ashok.

PALM Technology spoke to Avijit Samajdar, CEO & Founder, Axis Three Dee Studios, Pravin Kumar, Senior Manager - Visual Products, Epson India and Ashok Sharma, Regional Sales Manager, APAC, Dataton, who joined forces to deliver the magnificent projection mapping show. Read full story on Conceptualization, Production, Challenges and how the team ensured that the spectacular show continues to perform flawlessly with maximum impact, in the July-August 2020 install special issue of PT. Read Story on below link: http://palmtechnology.in/Article_73_Adiyogi_Divya_Darshanam_Continues_to_Raise_Standards.aspx



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ACOUSTIC AND AUDIO SYSTEM DESIGN FOR SMALL ROOMS

- PART 2

By - Rahul Sarma, CEO, Menura Acoustic Labs
In collaboration with Sound Wizard



In Part 1 of this series we defined a small room, introduced the concept of sound waves as they relate to phase shift and comb filtering, and even touched on the Haas (precedence) effect. In this article, we will talk about an important design consideration that is often an afterthought. Sound isolation is usually looked at when there are known external sources of noise like traffic and diesel generators, or when there is an important reason to prevent sound leakage out of a space. There is an equally important reason to consider isolation, and it goes by the term “dynamic range”.

Dynamic Range

Ever watched a movie in your living room, and the dialogue in a quiet scene is completely unintelligible? You grab the remote and increase the volume until you can finally understand what is going on, and you settle back into your couch, ready to enjoy the movie again. A super loud gunshot or crash suddenly has you scrambling for the remote again, rushing to reduce the volume before your ears bleed or you wake up the dead! More likely than not, you were initially forced to increase the volume to drown out some background noise, either from a nearby construction site, traffic, or even other people in your own house. That background noise created a

noise floor that adversely impacted the dynamic range of the audio playback. Simply put, dynamic range is the level difference between the softest sound and loudest sound in a recording. Increasing the volume restored the dynamic range by bypassing the noise floor, but the upper limit of the dynamic range became too loud to handle. Sound isolation is the key to suppressing the noise floor, and figuring out how much to isolate begins with quantifying background noise.

Noise Criteria

Noise Criteria is a simple and standardized way to evaluate the background noise level in a space. It takes into account the fact that not all sources of noise are broadband, and can be obtained by super-imposing a measurement in dB(A) of background noise over the graph seen below.

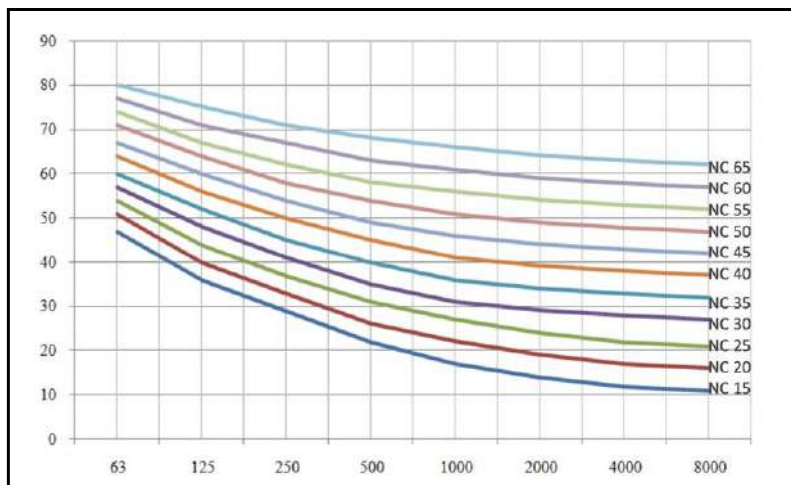


Fig.1: Noise Criteria Curves

The highest NC curve that intersects the measured levels at any frequency determines the final NC level. Recording and broadcast studios require NC 15-20 background levels, while an NC level as high as 25 can be acceptable in auditoriums. Please note: the NC number has little correlation with average dB(A) levels. Also, NC 20 does not equate to 20 dBA. A narrow band 63Hz tone measured at 50dBA corresponds to NC20, so to reiterate; do NOT confuse NC with dB(A). To properly understand why the NC curves are shaped the way they are, look up “Fletcher-Munsen curves”. A simplified explanation is that human hearing is less sensitive at lower frequencies, and hence we are less affected by lower frequency noise. Before we explore techniques to isolate a space from outside noise, it is important to understand that sources of noise within “small” rooms can sometimes be more detrimental than those outside it.

HVAC Noise

Air conditioning and ventilation are vital

ing positions. Larger ducts reduce the velocity of air and hence lower the noise from turbulence, and open cell rubber inside the ducts can help a great deal in reducing sound transmission through ducts. Sharp turns in ducts must be avoided to prevent an increase in self noise. Ducts themselves can be hung using ceiling hanger isolators, preventing structural vibrations that are often significant sources of noise. The following diagram is an example of layers and materials you might use to contain duct

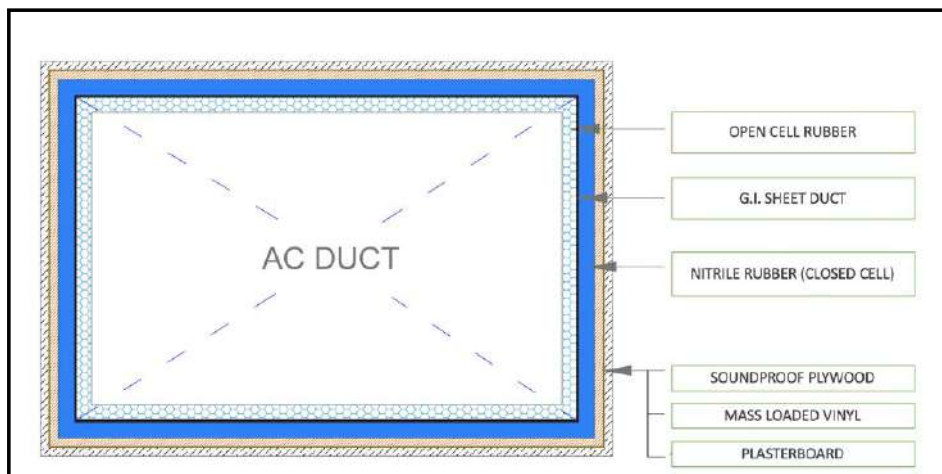


Fig.2: AC Duct Isolation Treatment

in acoustically isolated spaces and must be given importance during the design process. Central air conditioning is usually the best (and sometimes only) way to ensure low noise levels in your space, since noisy ac units can be located far away from the listen-

noise. There are a few different ways to achieve the same isolation, and software prediction can help greatly in this regard.

Room Isolation

For critical audio applications, proper room isolation is a requirement. The mass law states that the airborne sound insulation of a single-layer partition is directly proportional to the mass per unit area of the partition. Solid concrete walls do a great job of isolation, and thin single layer wooden partitions do the opposite. The downside of a single layer partition is that every material has a resonant frequency, for which sound waves will pass through the layer easily. Composite layers made up of materials with different densities can help address this issue. To address structural noise transmission, it is important to decouple layers. Heavy duty resilient isolators can be used to this end, enabling acousticians to create “floating shells” which essentially form a “room within a room”. Any rigid links between the inner and outer layers

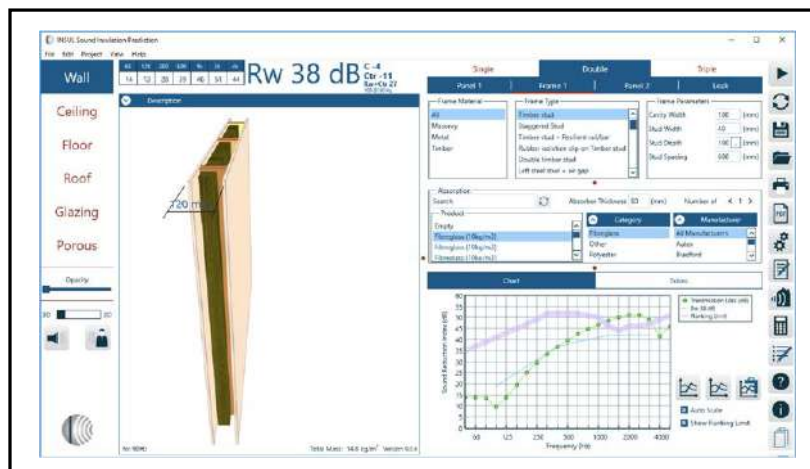


Fig.3: Software Predicted Sound Isolation

will severely compromise isolation through flanking transmission.

Software solutions like INSUL by Marshall Day Acoustics can be an invaluable tool to accurately estimate transmission loss of various materials, while also accounting for flanking losses in the real world.

Finally, it is extremely important to consider the “air-tightness” of a room. Isolation is only as effective as the weakest links, which are usually found in the gaps around doors and windows, electrical outlets and AC inlets and outlets. Even the smallest crack in a layer can compromise the isolation of a room, pouring your entire investment in isolation down the drain.

END-TO-END INTEGRATION WITH HARMAN PROFESSIONAL'S TOP-OF-THE-LINE SOLUTIONS AT MAYFAIR LAKE RESORT RAIPUR

Providing travellers an unforgettable stay, the MAYFAIR Lake Resort in Raipur enhanced its immaculate facilities by hiring Qubix Technologies to design and install a com-

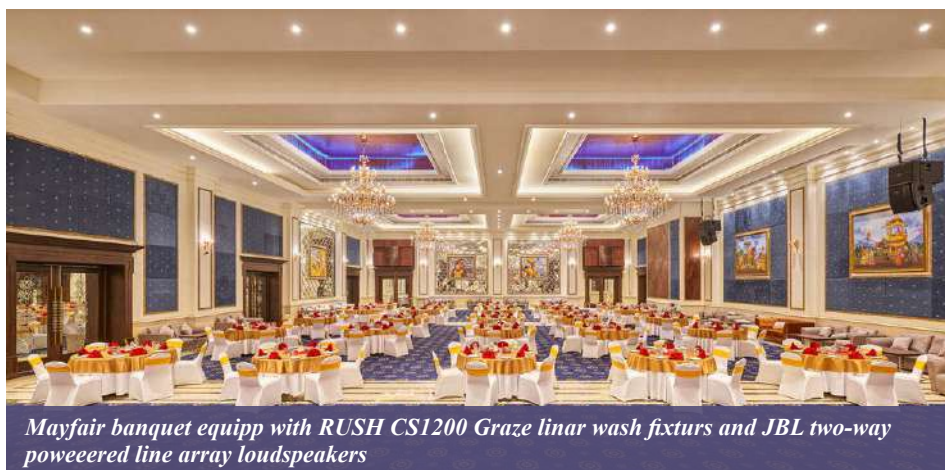
plete, state-of-the-art HARMAN Professional AVLC (audio, video, lighting and control) solution.

"MAYFAIR needed a multi-aspect,

cross-category solution for their new property in Raipur. From audio and video over IP signal distribution, to lighting, microphones, mixers and speakers, we sourced products from HARMAN because of their complete solutions," said **Rhythm Arora** of Qubix Technologies.

Illuminating MAYFAIR Lake Resort's amenities with dazzling lighting, Qubix Technologies deployed an arsenal of Martin fixtures and sprucing up the sound at the facility is a state-of-art sound system from the JBL range powered by crown Amplifiers. The resort features an array of products from Martin, JBL Professional, Crown, AMX, BSS, dbx, Soundcraft and AKG.

*Read full story on Inventory and Setup in the July-August 2020 install special issue of **PALM technology**.*



Mayfair banquet equipp with RUSH CS1200 Graze linear wash fixturs and JBL two-way poweered line array loudspeakers

ANGRIYA CRUISES THE SEAS WITH BOSE

Angriya is India's first domestic cruise liner that takes you from Mumbai to Goa. This majestic ship gets its name from the first Admiral of the Maratha Navy, Sarkhel Kanhoji Angre, who was popularly known as the Shivaji of the Indian Sea. Angriya set sail on its maiden voyage in Oct 2018 and ever since is giving its patrons an enhanced experience for corporate events, live performances and much more on this majestic vessel.

This luxurious ship was built in Japan and was decommissioned there when Captain Dhond, a veteran Indian merchant navy Captain decided to buy it in December 2016.

For the setting up of the AV, Angriya hired the experience hands of AV systems integrators Audio Technik, who are the elite partner of Bose in India. Bose was the obvious choice for the directors of Angriya as one of the directors Mr. Sarvesh was already working on another project with Bose and they were well aware of the system's performance, the company support, and the after-sales that Bose provides.

The project was headed by **Rajesh Patil**, founder of Audio Technik along with two other directors **Kevin Pillai** and **Peeyush Singh**.

Vibhor Khanna, Country Manager – India & SAARC, Bose Professional, commented, "Evolving consumer preferences, emerging

ship sizes and new entertainment programmes onboard featuring state-of-the-art audio, video and lighting have changed the cruise ship industry considerably. There is a lot of extra thought and attention that goes

Space and FreeSpace solutions from Bose correspond perfectly with the demanding requirements of the Angriya, while greatly enhancing the guests' Showtime experience. We are proud of this project and we thank



The client wanted a system that would not spoil the original aesthetics of the place and at the same time deliver outstanding performance, hence Audio Technik decided to chose the Bose Systems.

into the sound system design of a cruise ship and selecting the right products is crucial.

Audio Technik came up with up with an ideal Bose sound system solution which is not only rugged and robust but also has sound quality which matches the aesthetics and demands of the cruise. The LT 9702 WRs, Control-

Audio Technik for a speedy and trouble-free installation."

*Read full story on Design and setup in the July-August 2020 install special issue of **PALM technology**. In this feature PT reports on the audio installation of The Angriya Luxury Cruise Liner installed with Bose Audio Systems.*



WILL THE DIGITAL WORLD BE THE SAME POST PANDEMIC?

EK AJEESH, CTS

Associate Director - Eyte Technologies Pvt Ltd.

Every year we sign New Year resolutions. During the start of 2020, no one could have ever imagined how the rest of the year would be. The severe impact of the current pandemic situation has not only affected individuals but corporates at large too.

EYTE interacted with many individual professionals and organizations for Post-Covid requirements in terms of technology and following are few challenges and changes that the industry is looking to address and find solutions to.

- **Health, Safety and Security**

Most corporates are concerned about employee's safety, security and health. In fact, as per government directives health insurance will be made compulsory.

- **Social Distancing and Office Space Requirement**

Organizations are concerned about maintaining social distancing norms and finding ways to follow norms without major changes in the office space designs

- **Distancing and Utilization of Public spaces**

Meeting rooms, Cafeteria and other public spaces need solutions that can make offices touch free in terms of operating the equipment deployed.

- **WFH**

Work from Home which is a major and immediate relief for organizations in the current situation, is gradually being made a norm. Addressing the challenge is the biggest requirement.

There are technological answers and solutions to address all the above, and if I say that the solutions to all of these existed with us for almost a decade now, then that won't be wrong.

Health, Safety and Security Solutions

The health monitoring fit bits connected to your hand phones are being used by most of us for years. The digital temperature readers existed for decades. Now a combination of these IR based sensors with security cameras is giving us the most trending solution for health monitoring.

Many companies are offering cameras which can read your temperature easily at the entrance gates. These temperature sensing cameras, combined with mask detection and facial recognition is not only adding to security, attendance but also health monitoring. All the data can be cloud based and can be monitored.

The UV light cleaning, the UV light treatments of HVAC are also the added features in office facilities.

Social Distancing Solutions

Social distancing norms have emerged as a major challenge for existing offices. But to let you know, besides solutions from architects and workspace consultants to have physical large offices, there are technological ways to address the issue. Hot desking and asset management solutions are there for our rescue. The hot desking solutions and IOT sensors can not only identify the occupied spaces in any office and guide the employee to vacant locations which he can occupy, but also give real time utilization of spaces in terms of occupancy and energy consumption.

The app-based solutions enabling employees to book their seats in the particular zone with the team they belong to, aids in maintaining applicable social distancing norms.

This is not limited to office space only;

the asset management systems can also allow booking of meeting rooms. Scheduling a meeting through the app or your laptop can give you a touch free meeting experience, wherein all the devices can be scheduled to start at a given time without even a touch screen or voice command. Again, the real time energy consumption and utilization reports are added features.

Utilization of Public Spaces

Cafeterias are very crowded during lunch hours and this is a major cause of concern. Organizations will of course look at dividing the employees into groups and scheduling break hours, but we have technology solutions too to help. Proximity sensors can not only keep count of the people in a space but can help them to maintain the distance in queues and seating arrangements by force and alarms. The doors can be locked from outside if it has reached the target number.

Geofencing can force the employees of certain floors to use the designated café for their floor only. The pre-booking of their meals through app can also help save time.

Work From Home

It was only the availability of high-speed internet and the data on cloud that helped companies survive during this unprecedented time. The cloud meetings using your laptop microphone and camera can be further enhanced using pro cameras and headphones offered by many companies at quiet affordable rates. Adding virtual background can make it look more professional and home pods and some acoustical panels around you with an addition of an ergonomic chair can give you a studio feelings at home.

Q-SYS AND CRESTRON PLUG-INS FOR POWERSOFT' AMPLIFIERS

Powersoft has released new plug-ins supporting Mezzo Series and its non-DSP install dedicated amplifier platforms ranges for the Q-SYS and Crestron control ecosystems. These free-to-download plug-ins allow for user friendly network-based control of amplifier functionality via third-party systems. They feature a refined, modern-looking interface, extended functionality, and a high level of user customisability, compared to legacy plug-ins for the format. In addition, a new Q-SYS plug-in supporting DSP+D versions of

Engineer, North America. "Our new Q-SYS and Crestron plug-ins improve functionality and usability for any users integrating our premium amplifier technology with these popular products."

Q-SYS and Crestron for Mezzo

The latest plug-ins extend third-party network-based interoperability to Powersoft's new ultra-compact Mezzo half-rack installation amplifiers. For Mezzo, the new plug-ins allow Q-SYS and Crestron controllers to

The new plug-ins for Duecanali, Quattrocanali, and Ottocanali Series update and improve control via Q-SYS and Crestron for the powerful install line's non-DSP amplifiers. Users will now have full control over mute and unmute, gain attenuation, maximum output voltage, standby OFF, and the blink/identify function. Read-only access will relay the amplifier's name, dip-switch configurations, alarm notifications, and metering.

Custom Control

Powersoft's new Q-SYS plug-ins allow users to conveniently drag-and-drop control elements from the plug-in to quickly create custom UIs without interrupting functionality or removing the control from the original plug-in UI. This allows users to situate and re-skin individual controls to create workflows optimised for their needs while maintaining underlying functionality and easily reverting to the original plug-in layout.

Supported Powersoft amplifiers can communicate with any Crestron 3-Series Processor via the new plug-ins. Integrators can choose Crestron Touch-panel, iOS, Android, PC, or Tablet formats to create custom graphics suited to anticipated use cases.

In addition to Q-SYS and Crestron, Powersoft products are now supported in numerous control eco-systems including those from Extron, Symetrix, Xilica and Atlona.



Duecanali, Quattrocanali, Ottocanali, X and T series is slated for release this summer with brand new functionality.

"Powersoft enables wide-ranging control and configuration of our amplifiers through our own ArmoniaPlus software, but we are also committed to ensuring interoperability with other popular control ecosystems," said **Michael Perry**, Powersoft Application

access numerous key functions, including power and standby, LED blink / identify, amplifier nickname, backup strategy mode, source selection priority, gain and mute control, polarity control, and user delay. Read-only functionality allows the control unit to additionally poll and display serial number, mains voltage, headroom meters, and a wide range of alarm notifications.

AUDAC LAUNCHES TOUCHLINK TECHNOLOGY

AUDAC's, new AMP203 Dante mini stereo amplifier will now come equipped with a brand new innovation called TouchLink.

TouchLink is an ingenious system that can

be used for creating virtual zones by linking multiple TouchLink compatible devices with each other. In AUDAC Touch 2 you can select multiple devices or amplifier channels that

should react to the user as one zone.

A typical application example is a large open area where multiple (compatible) amplifiers are used. When they are virtually linked, all devices or amplifier channels with the same TouchLink assigned zone will be following each other's settings (including volume, input, muting). It means, if they are all installed throughout the same area, they all will be simultaneously operated by one single control (e.g. volume fader) from the AUDAC Touch™ 2 app. Additionally, a wall panel which is physically connected to one of the linked devices will automatically control all the linked devices. A number shall be assigned as a TouchLink zone (e.g. 1, 2, 3, etc.) and all devices with the identical TouchLink ID will virtually work as one zone.



SHURE PROVIDES COMPLETE CONFERENCING AUDIO ECOSYSTEM FOR COLLABORATION SPACES

As video conferencing becomes even more important in today's world, Shure has announced a new selection of products to provide systems integrators and AV professionals with a complete conferencing audio ecosystem.

The expanded range of **Microflex Advance** products -- with complementary software for design, management, and control -- offers expanded possibilities for systems inte-



grators to deploy Shure's premium audio capabilities into more types of meeting and collaboration environments than ever before. These products are all natively designed to work seamlessly with each other, and provide the market with a fast and efficient means to deploy premium audio, with IntelliMix audio signal processing in either device-based or software formats.

With the introduction of the **Microflex MXN5-C Networked Loudspeaker**, along with products like the new **MXA710**, **MXA310**, **MXA910**, **Networked Mute Button**, **Designer**, **SystemOn**, **P300**, and **IntelliMix Room**, Shure can now provide the complete audio signal chain, from input to output.

Shure's conferencing audio ecosystem comprises:

- **Microphones:** Ceiling Array Microphones, Table Array Microphones, and Linear Array Microphones
- **Loudspeaker:** Networked Ceiling Loudspeaker
- **DSP:** Audio Conferencing Processor and Audio Processing Software
- **Software:** System Configuration Software and Remote Management Software
- **Accessories:** Network Mute Button and Audio Network Interfaces

"Premium audio is essential for business," said **Chad Wiggins**, Senior Director, Networked Systems, at Shure. "Shure is the market-leading provider of a comprehensive, premium audio hardware and software ecosystem for conferencing. We feature in-

novative and scalable solutions of networked microphones, DSPs, and loudspeakers for small meeting rooms to large boardrooms and everything in between."

The Shure audio conference ecosystem is

continued on pg 39

SHURE INTRODUCES SLX-D DIGITAL WIRELESS SYSTEM

THE COMPANY'S LATEST OFFERING IN WIRELESS TECHNOLOGY PROVIDES RELIABLE RF AND EXCELLENT SOUND

Whether it's a high-school theater production, corporate meeting, or a Sunday service, live events need to deliver flawless audio and require products that are straightforward to setup and use. Wireless microphones face additional challenges in today's increasingly crowded RF environment. To help address these needs, the SLX-D Digital Wireless System is the newest addition to the Shure digital wireless portfolio. The new offering is the digital replacement of the Company's popular SLX system, complete with new mechanical designs, exceptional audio quality, more reliable RF performance, streamlined setup, and more.

The multi-faceted SLX-D Digital Wireless System provides end users with greater channel count than SLX, smart recharge-

charging station. SLX-D is a state-of-the-art system with several notable features and user-friendly benefits, including:

Reliable RF—SLX-D lets users navigate crowded environments with high spectral efficiency and dependable RF. The system enables operation of up to 32 channels per frequency band without worrying about dropouts or signal fades.

Excellent Audio Quality—ensures every performance, lecture, and speech is delivered flawlessly, SLX-D delivers crystal clear sound. With a wide dynamic range, it can handle a variety of inputs while preventing distortion – ultimately enabling clean, natural instrument and vocal sound.

Ease of Use—knowing that personnel in various institutions and facilities need a simple and straightforward solution,

SLX-D is equipped with Guided Frequency Setup and a Group Scan feature that lets users set up multiple channels more efficiently by assigning frequencies to all receivers automatically via ethernet connections. Even for a 30+ channel system, the entire Group Scan can be completed within a few seconds.

"As we support customers in education, Houses of



Worship, corporate facilities and theaters, we recognize the need for an easy-to-use digital wireless system with rock-solid RF performance that can scale as the needs of the venue or spectrum environment change," said **Nick Wood**, Senior Wireless Category Director at Shure. "With SLX-D, we can offer a solution that is both state-of-the-art and a great value."

able options, and simplified ease-of-use for moments that matter most – in the classroom, Houses of Worship, corporate facilities, the hospitality sector, local governments, and more. The new system is offered in single and dual channel options. Transmitters run on standard AA batteries or an optional lithium-ion rechargeable battery solution with a dual-docking

BARCO BOOSTS INDIAN DISTRIBUTION NETWORK; PARTNERS WITH TRUSTECH FOR WIRELESS COLLABORATION SEGMENT

Global leader in professional visualization and networking technology - Barco, today announced its partnership with Trustech Audio Visual Solution LLP, a major distributor in the Indian Unified Communications space, to expand its reach across tier-2 and tier-3 cities in the country. With the renewed product and distribution strategy, Barco is targeting an enhanced outreach in more than 30 cities, by 2021.



Barco is known for its end-consumer targeted partnerships, and Trustech, with its over 400 partners, will play an important role in Barco's channel expansion and product strategy enablement. In a phased expansion, Barco is focusing on targeting 15 cities in this year, and 15 more cities by next year. While Barco shares partnerships with AV and IT distributors over the last few years, it is entering into the Unified Communication and Collaboration space with the launch of the innovative solution ClickShare Conference.

Following this partnership, Barco will now have two UC distributors in India, Trustech, and Ceeco Technologies, boosting its pan-India presence and providing the channel partners greater accessibility and flexibility.

The entire ClickShare range will be available through Trustech.

According to **Faiz Rehman**, National Business Head – India & SAARC, Collaboration, Barco, "Bringing Trustech on board as our national distributor will help Barco strengthen its channel network, especially in UC & AV



Trustech
Inspiring collaboration

domains. In current times, with a major focus on conferencing solutions, with Clickshare Conference, Barco will now aim to be a key player in the UC&C space and, through Trustech, we expect to expand our footprints beyond major cities and boost our presence in tier-2 and tier-3 cities. Post the Covid-19 pandemic phase, we expect these cities to drive a good portion of our growth."

"The new partnership reflects our concerted efforts and focus on reinforcing the channel partners' ecosystem and our ability to distribute products, across multiple touchpoints in the country. We intend to enable as many organizations as possible, across India, to optimize their meeting room productivity and ensure a smooth, seamless collaborative

experience for better business outcomes," he said.

Through the partnership, Trustech will also distribute some of Barco's ProAV segment products, including projectors and video walls. According to **Hardik Shah**, Director, Trustech, "Barco is a renowned global brand and we are pleased to enter into this national distribution partnership. As a niche distributor, we are intensely focused on the AV and UC space, and we believe that the association will benefit both parties tremendously."

Bhavesh Rabadia, Director, Trustech said, "We look forward to a long and fruitful association between Barco and Trustech, and hope to take Barco's innovative solutions to enterprises across the Indian market."

Additionally, expanding its outreach in the APAC region, Barco has also partnered with Gestetner of Ceylon PLC, for Sri Lanka and Maldives. Gestetner is one of the leading business groups of Sri Lanka and has been associated with many leading brands. Adding Gestetner as a national distributor for ClickShare and ClickShare Conference will enhance Barco's business in the APAC region, cementing its vision and mission of improving meeting room experience and productivity beyond geographical boundaries.

EXERTIS GLOBAL OPERATIONS TO PROVIDE SUPPLY CHAIN SOLUTIONS FOR CLEAR TOUCH

Exertis Global Operations, a leader in materials supply chain design and operation, has announced a strategic partnership with Clear Touch, a leading provider of multi-touch, interactive flat panels and software for education and business.

Exertis Global Operations will provide an innovative supply chain solution for Clear Touch's growing worldwide business. It will manage the vendor's inbound product and solutions supply chain by assisting in the management of supply partners around the world, reducing time to market, and increasing purchasing scale. Exertis Global Operations will also help reduce overall cost, release working capital, and increase efficiencies from the manufacturer through



to the customer.

Padraig Henry, Exertis Global Operations, commercial director, said, "We are delighted to announce this partnership with Clear Touch which is entirely consistent with our strategy to support Pro AV brands with supply chain finance and factory to market solutions. Our innovative range of services will enable them to scale and grow their business by taking advantage of all of the opportunities available to them including executing materials purchasing, internation-

al trade and compliance, optimising working capital and logistical fulfilment."

Commenting on the agreement, **Keone Trask**, Clear Touch president, said, "The combination of inventory financing, AR management, and supply chain support allows us to deliver products and services to our international customers in a more streamlined manner. Exertis' infrastructure and purchasing capabilities give us a greater ability to meet the large scale implementation demands that we are experiencing due to rapid growth. This is an exciting development for the business and our customers, one that illustrates how the latest supply chain management techniques and services can stimulate both volume and geographic growth."

SWARAJ EXPRESS CHOOSES GRASS VALLEY SOLUTIONS FOR FUTURE-READY NEWSROOM CAPABILITY

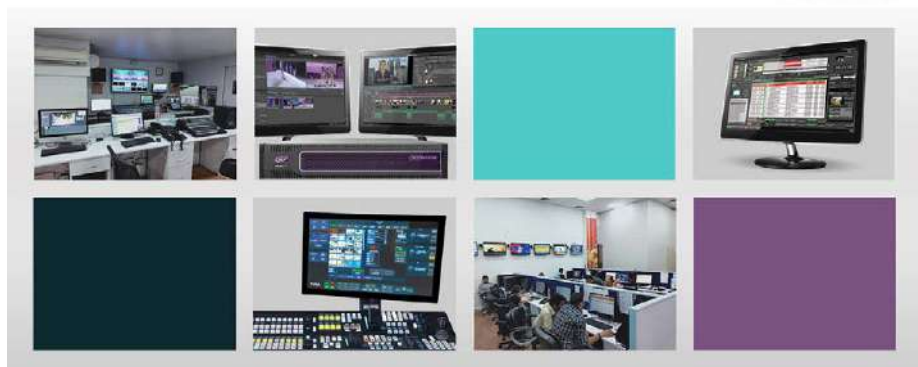
24/7 Indian news channel, Swaraj Express, has deployed a range of Grass Valley solutions for its newsroom operation, leveraging greater flexibility and scalability to create a workflow that meets its needs today and tomorrow. The Hindi-language broadcaster has deployed the **iTX integrated** **playout**

switchers, alongside a range of infrastructure solutions.

GV STRATUS operates as the main MAM system for Swaraj Express, offering tight integration with the third-party newsroom computer system (NRCS). GV STRATUS' built-in social media management capability allows

Gurdeep Singh Sappal, Swaraj Express' Editor-in-Chief, commented: "We chose Grass Valley as our primary technology supplier because they truly understand the requirements of a news platform and deliver solutions that help us meet the changing needs of our audience, across linear, online and social media. Through our rigorous selection process, they were able to clearly demonstrate that the combination of iTX and GV STRATUS was the best solution for us, offering format flexibility, scalability and a strong roadmap, while still being robust and easy to operate. Grass Valley's strong regional presence and unmatched technical support were also deciding factors for us."

"Today's audiences engage with news content in a wide variety of ways, from linear to social media and online. In this highly dynamic mediascape, news broadcasters need to be efficient and must be able to address all these platforms simultaneously, from one unified workflow," said **Greg de Bressac**, Grass Valley's vice president of sales, APAC. "The newsroom is an environment where fast turnaround is key; our news customers need technology that can help them work smarter and be more agile, quickly evolving services so they can keep audiences engaged — on any screen. We are delighted to be working with Swaraj Express to help them build a multiplatform news service that looks to the future."



platform with master control for its proven future-proof features, and the ability to efficiently manage and operate multiple playout channels — across multiple platforms.

The iTX platform provides multi-resolution support, allowing the production team to easily handle 4K, HD and SD, as needed. The solution also can simultaneously play out both IP and SDI. Swaraj Express has deployed **GV STRATUS** for news production and content management, Kula 2M/E production

production staff to directly publish content and metadata to popular social media networks, such as Facebook and Twitter as well as online platforms such as YouTube. It also tracks and manages assets on the platforms — from measuring popularity to deleting content after a set time. When combined with the iTX platform, this set-up gives the Indian broadcaster the ability to easily adapt to new formats and evolve its service model in line with consumer habits.

SHURE PROVIDES COMPLETE CONFERENCING AUDIO...

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flexible across audio system architectures in all room types and ensures end users experience high-quality AV conference experience across an enterprise — regardless of location.

As the market is looking at increasing adoption of AV technologies geared around simple deployment, intuitive operation, and seamless compatibility with leading collaboration platforms, Shure is offering a complete solution in one place. Ecosystem advantages include:

Collaboration Platform Ready: Shure works with leading third-party software and hardware conferencing platforms, including Zoom, Microsoft Teams, Cisco, and others to secure certifications and ensure compatibility.

Streamlined Configuration and Deploy-

ment: With a Shure ecosystem, more rooms can be deployed in less time, using Shure Designer software as "one pane of glass" for system-wide integration. AV techs have visibility to everything on network with SystemOn for easy monitoring/troubleshooting.

Pre-Packaged "Soft Bundle" Solutions: Shure offers availability of product bundles for specific room size requirements so rooms are more consistent-sounding from room to room, providing a turnkey audio solution.

Easier Maintenance: One manufacturer provides a single point of contact for sales, service, support, training, updates and more. Less gear overall (no amplifiers for loudspeakers, outboard DSP, etc.) and a lower learning curve for intuitive audio system operation are



additional advantages for AV techs.

"Shure's portfolio now includes the complete audio signal chain from microphone to DSP to loudspeaker, providing audio solutions for environments of all types with unmatched ease of deployment, less complexity, and remote management," said Wiggins.

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The magazine content provides solutions for not only audio for stage sound and music production but also high quality audio solutions for studios, broadcasters and audio for video and post production. PALM technology is the ideal platform to source high-end audio-for-video and advanced sound processing equipment to enhance sound and Foley effects, location recording, live broadcasting etc. The magazine circulation comprises readership of 100% industry professionals across application segments like live Events & Entertainment, Music production and post-production and professional AV, television and broadcast Installation & Systems Integration.



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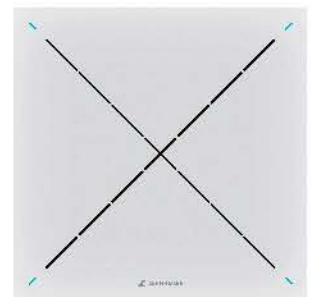
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