

ETA ENTERTAINMENT TECHNOLOGY ASIA

For The Technical And Production Professionals in Asia

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What fascinates

me most about projection mapping is how it defies the inherent limitations of light

Adrian G.S. Goh

Group Managing Director
Hexogon Solution Pte Ltd



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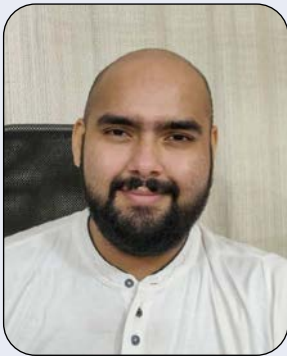
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Stepping into 2025 is exhilarating for me personally, as I pen my first 'First Words'.

I'm truly honoured to take on the role of editor, and I endeavour to build on the magazine's rich legacy of serving the professional live event technology industry. It has been an incredible journey so far with the Spinworkz

family—one filled with learning, collaboration, and innovation. And I'm thrilled to continue working with our amazing team to bring you action-packed, inspiring and perceptive content that resonates with all stakeholders: advertisers, contributors, and most importantly – YOU, our readers.

This issue showcases the industry's exciting momentum; with several insightful pieces across our News, Live, Ennovation and regular column sections. In our personality feature, Adrian Goh of Hexagon Solutions Pte Ltd shares his expertise on how projection mapping defies the inherent limitations of light, while our feature – The 2025 Blueprint – explores the hopes and aspirations shaping AV technologies and live events, with insights from industry leaders.

Cheers to a smashing 2025 ahead!

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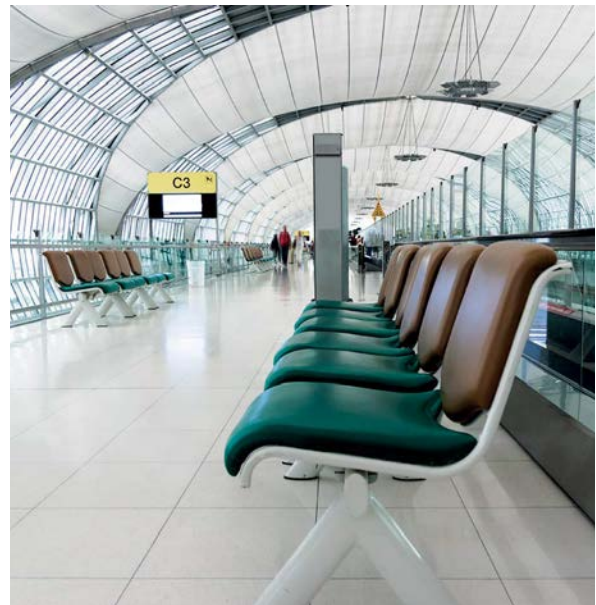
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L-Acoustics Celebrates 40th Anniversary Year with Major Workforce Growth Milestone



Capping off a year of marking the company's 40th anniversary, **L-Acoustics** announced another significant milestone with the addition of its 1,000th team member. Kevin Gouriou joined the company as a prototypist in Research & Development, marking a milestone that showcases four decades of growth from the company's European roots to its current position as a global leader in professional audio.

This milestone comes during a remarkable period of growth for L-Acoustics, which has seen a 40% increase in its workforce over the past two years. With global hubs in Paris, Los Angeles, London and Singapore, the company has strategically expanded to support its worldwide network

of partners and clients while maintaining its commitment to innovation, with 20% of its workforce dedicated to design and R&D. "For forty years, L-Acoustics has been driven by a spirit of innovation and a simple vision: bringing people together through extraordinary sound," says **Anne Hamlett, Chief People Officer at L-Acoustics**. "Welcoming our 1,000th team member represents a significant milestone in our journey to connecting people by creating the world's most exceptional sound experiences and demonstrates our continued commitment to excellence across all geographies and divisions of the company."

L-Acoustics addressed its rapid growth through strategic restructuring, establishing specialized teams for key market verticals and strengthening support for its certified provider network across 80 countries. The company's significant expansion in 2024 included over 200 new positions created, 20% of which were filled through internal promotions, highlighting its dedication to employee development.

"Our growth strategy isn't just about the numbers – it's about building sustainable teams that can support our partners and drive innovation," says **Oscar Heinke, Director of Talent Acquisition & Organizational Design at L-Acoustics**. "To meet the dynamic demands of our industry, we're creating a versatile workforce - both by promoting from within and by bringing in fresh perspectives and top talent across all departments."

INDIA

Spectrum Audio Solutions Investment Spree Sets the Stage for Unforgettable Event Experiences in Goa

Goa's premier live event technical solutions provider, **Spectrum Audio Solutions** has once again raised the bar for unparalleled live event experiences in the region by commissioning yet another strategic round of investments. The move aims to bolster the company's audio, lighting, and trussing inventories to meet the evolving demands of high-profile live events.

Maria Rodrigues – the dynamic 23-year-old Director Spectrum Audio Solutions – has been instrumental in shaping the company's success with her visionary leadership that has driven the company's innovative approach, and her hands-on involvement in operations that has solidified its reputation for excellence. She comments "Spectrum Audio has always prioritised quality above all. Since its inception, our mantra has been 'Quality over all,' which resonates with the expectations of artists and engineers who work with us. With an upswing in the number of high-profile events, we understand the importance of consistent evolution, and these recent investments are a testament to our dedication to meeting and exceeding industry standards.

Artists and performers today demand the best, and it is our responsibility to ensure we deliver solutions that match their expectations. Our legacy and commitment have been nurtured by my father, Renzil Rodrigues, whose mentorship has shaped our company's trajectory."

Earlier this year, Spectrum Audio Solutions expanded its loudspeaker inventory with a significant investment in L-Acoustics line array systems. Building on this momentum, the company has now acquired a plethora of cutting-edge equipment across its audio, lighting, and trussing divisions, reinforcing its ability to cater to the growing demands of live event productions.

The star of Spectrum Audio's recent inventory update is the inclusion of a brand-new Quantum 338 digital mixing console from **DiGiCo**, paired with the SD Rack for enhanced I/O capabilities. "Procuring the Quantum 338 was such a seamless experience, all thanks to Mr Nirdosh Aggarwal and his team at **Hi-Tech Audio & Image** comments Maria, as she explains the rationale behind this investment, noting "The Quantum 338



is a game-changer in live sound reinforcement. Its advanced Quantum Engine offers unparalleled processing power, and features like Nodal Processing and Mustard Processing provide our engineers with unmatched flexibility and precision. The console’s high-resolution TFT touchscreen and intuitive interface make it a joy to use, while the SD Rack ensures seamless connectivity with superior audio quality. All-in-all, having already tested the console in live scenarios, the feedback from our team and clients has been overwhelmingly positive.”

Another notable addition is the **Allen & Heath** dLive S7000 surface, paired with the dLive DM64 MixRack. This system offers advanced features tailored for high-demand applications. **Renzil Rodrigues, Founder Director** of Spectrum Audio Solutions, highlights the technical prowess of the dLive system, as he comments “The dLive S7000’s simplified 36 fader layout and dual touchscreens offer an intuitive workflow, while the DM64’s input and output channels provide exceptional versatility. The XCVI Core delivers

96kHz processing with ultra-low latency, making it a perfect fit for our high-profile events. Special thanks to Troy and his team at Just Audio for a smooth purchase experience; and I truly believe that this investment reflects our commitment to delivering exceptional mix experiences for the amazing artists and engineers that we work with on a regular basis.”

Team Spectrum have also expanded their inventory with 16 additional channels of **Sennheiser** 2000 Series IEMs, known for their dependable, crystal-clear audio transmission that artists trust implicitly; and multiple additional channels of the Sennheiser Digital 6000 wireless microphones, which excel in delivering interference-free audio. Maria comments on the acquisition stating, “The Sennheiser 2000 Series IEMs are a staple in our inventory, offering crystal-clear audio transmission that artists trust implicitly. Similarly, the Digital 6000 microphones excel in delivering interference-free audio, making them indispensable for live events. We’re grateful to Mr Kiran Sanghavi of **Premier Radio**



A special training of Allen&Heath dLive S7000 console was conducted for team Spectrum Audio Solutions.

and Mr Piyush Mahajan of Sennheiser for their invaluable support throughout the acquisition process; and I'm confident that these additions will empower us to scale up effortlessly while maintaining the highest standards."

Furthermore, to complement its expanded L-Acoustics loudspeaker inventory, the company has also acquired multiple units of (Dolby) **Lab.gruppen** LMX48 and **XTA** DP448 processors, which allow for optimal loudspeaker management and seamless signal processing.

On the other hand, perfectly complementing the audio upgrades, Spectrum has also enhanced its existing lighting capabilities with an extensive acquisition of fixtures from **DAGE** – a brand that the company has relied on for several years now. In total, the company has acquired 32 units of the DAGE 750 Dragon Eye Washes, while bolstering its existing arsenal of DAGE 580 sharpies by adding 48 additional units to bring the total count to 60. And to provide seamless control over the expanded lighting rig, two additional units of the **Avolites** Arena lighting controllers have been acquired by the company.

Rounding off the investment spree, team Spectrum have also expanded its trussing

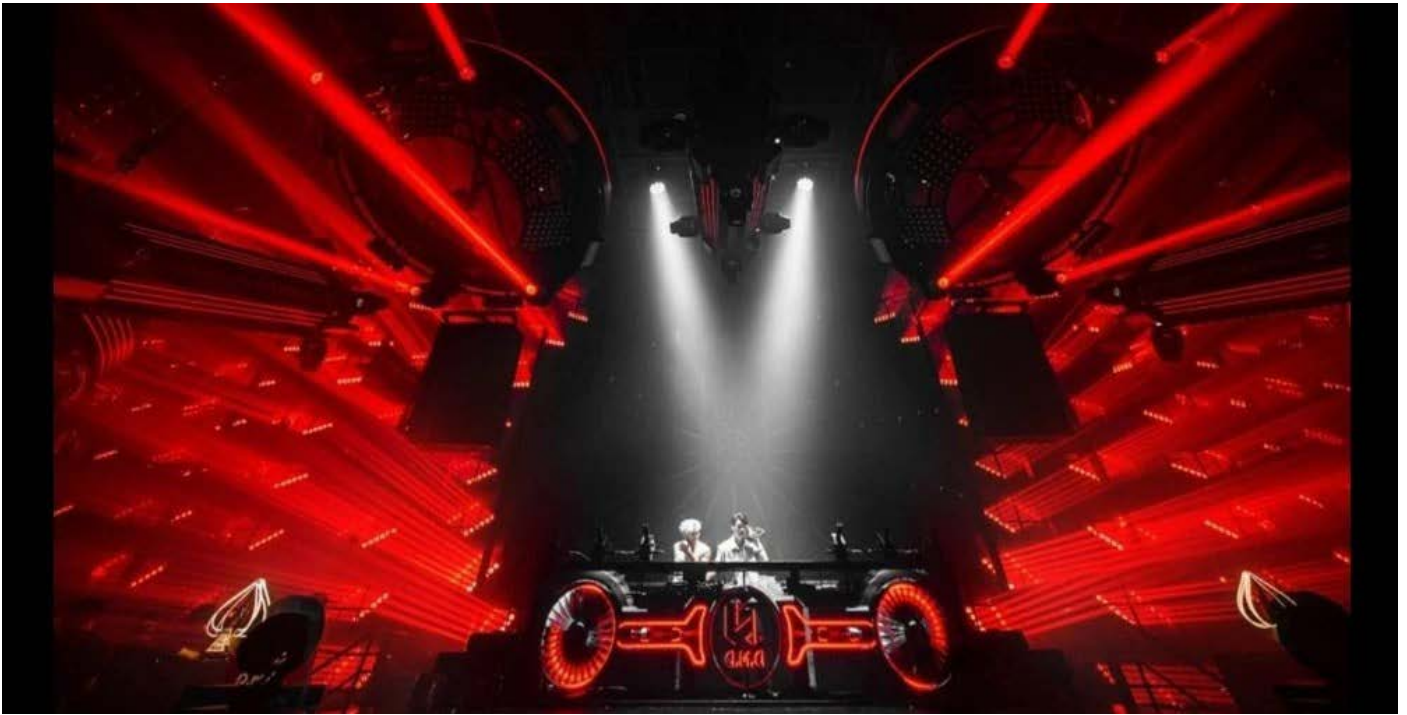
inventory with the addition of several new box trusses, goal-post trusses, and individual truss sections; with this expansion reinforcing the company's ability to provide versatile and stable structural solutions for events of all scales.

Maria shares that the company wasted no time in deploying its newest acquisitions in real-world live event scenarios; where-in all of the company's investments proved their mettle at several high-profile events. Following a series of back-to-back deployments, the Spectrum crew were particularly impressed with the performance value offered by their newest additions i.e. the DiGiCo Quantum 338, the Allen & Heath dLive S7000, and the DAGE Dragon Eye Washes.

Ketan Naik, Technical Head at Spectrum Audio Solutions shares his experience, "Working with the Quantum 338 has been a revelation. Its advanced processing capabilities and intuitive interface have streamlined our workflows, allowing us to focus on delivering exceptional sound. Similarly, the dLive S7000 has impressed us with its versatility and pristine audio quality. On the lighting front, the Dragon Eye Washes have added a new dimension to our designs, delivering stunning visuals that captivate audiences."

CHINA

DND CLUB Unleashes a New Sound in Maoming with KV2 Audio



When DND CLUB opened its doors in Maoming, China, it wasn't just the impressive 3000-square-metre design or the \$7.7 million investment that caught people's attention. Instead, it was the immersive audio experience that established DND as a unique destination in the nightlife scene. At the core of this remarkable auditory experience is **KV2 Audio's** flagship VHD5 system, a high-definition, point-source system that sets new standards for sound clarity and impact.

"Our goal was to create an atmosphere where every beat and every note feels alive," begins Peter Chen from YueShun Entertainment Company, the club's investors. "We needed a system that could deliver not just volume, but clarity, even at peak energy levels."

Nestled at 328 Maoming Avenue, DND CLUB's mission goes beyond conventional clubbing. The

space aims to provide an unforgettable, high-energy environment where patrons can truly feel the music. "From day one, we knew the audio system had to be exceptional," shares **Alexander Wong, KV2's clubs Market Manager** in China. The quest for the ideal system led the team to the VHD5, a system known for its cutting-edge point-source technology that produces crystal-clear sound over large distances without the need for extensive line arrays.

The setup includes two VHD5.0 Mid-Hi loudspeakers powered by dedicated VHD5000 amplifiers, a pair of VHD8.10 Low-Mid loudspeakers, and an impressive array of 40 ESD1.18 subwoofers strategically placed around the main bar hall ensuring consistency and clarity across the entire audio spectrum.



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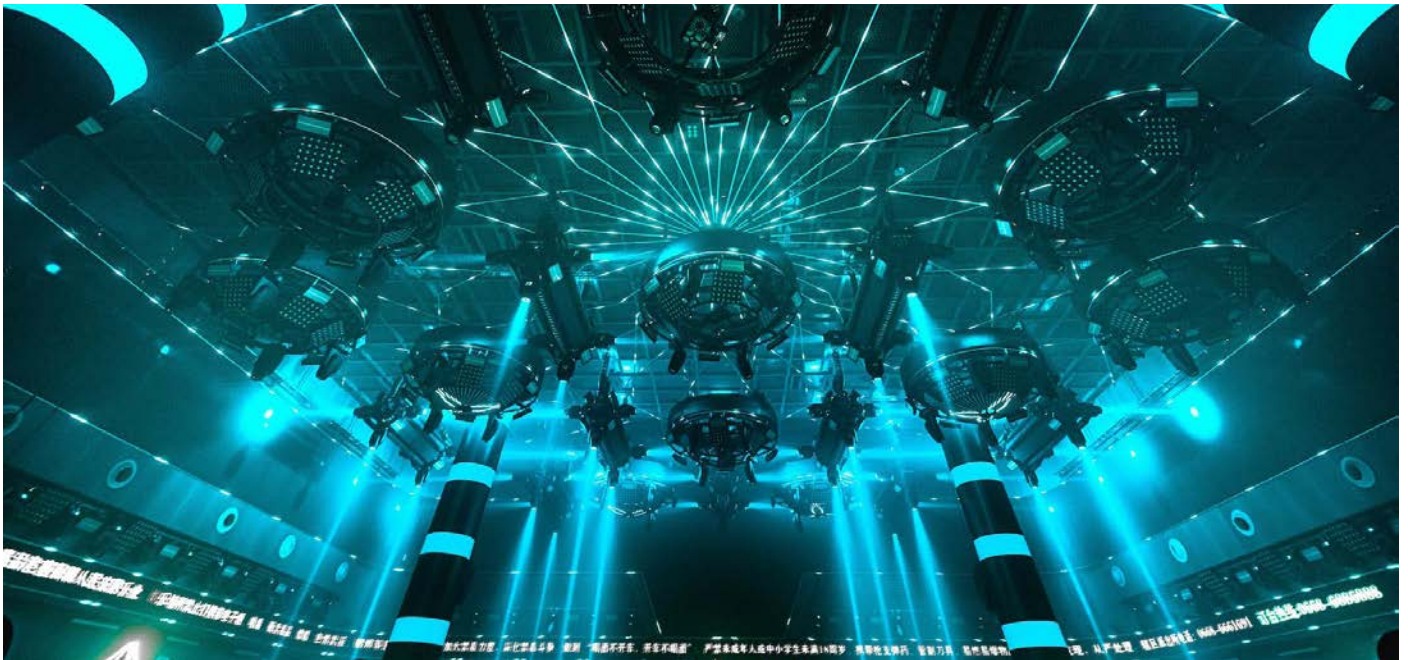
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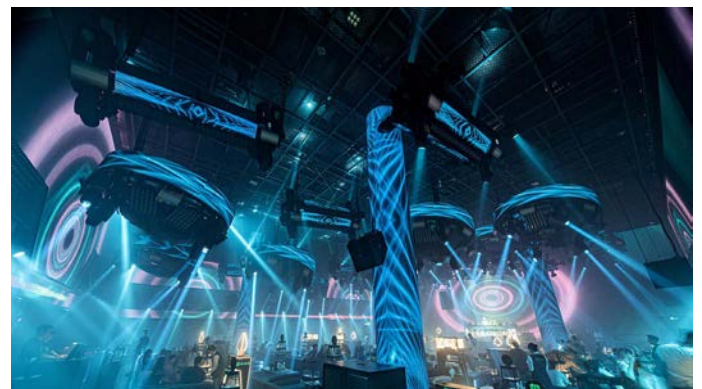
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"This configuration provides the depth and intensity needed for a club of this scale," Wong explains. "The VHD5 system fills every corner of the 3000-square-metre venue with precision, making every performance feel intimate and powerful."

The choice of KV2's VHD5 system stemmed from a visit to the Wuhan FOREVER Club, where DND's team first encountered the system's capabilities. Captivated by its sound quality, they sought out KV2 to replicate that magic in DND CLUB. After a six-month build, DND opened with one of the most advanced sound installations in the region, thanks to precise design and the expertise of KV2's audio engineers.

"Building a venue of this magnitude and achieving such refined sound quality was challenging but incredibly rewarding," notes Alexander Wong. "The configuration we used at DND CLUB is the first of its kind in Maoming and one of the most ambitious setups for KV2 in a club environment." In addition to the main hall, DND CLUB offers five private rooms, each equipped with KV2's ESD12 loudspeakers and ESD1.18 subwoofers.



These intimate spaces provide a personalised experience for guests who want the same high-quality sound in a more private setting.

Since opening, DND CLUB has exceeded expectations, captivating artists and patrons alike with a sound that feels immersive and expansive. The system's performance aligns with DND's vision of a transformative nightlife experience, blending technology and design into an environment where sound becomes part of the experience. "For artists, the audio clarity allows for true creative expression," concludes Peter Chen. "For guests, it's about the quality of the experience. They don't just hear the music – they feel it."

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MIDDLE EAST

Zactrack Eyes Growth in GCC + Lebanon Through Partnership with Procom Middle East



zactrack – a leading provider of high-precision 2D and 3D tracking systems for lighting, audio, and video applications – has announced **Procom Middle East** – a leading provider of AV technology solutions – as its exclusive distribution partner in the GCC and Lebanon. As part of this partnership, Procom Middle East will be responsible for sales, after-sales service, technical support, training, and marketing for zactrack products throughout GCC + Lebanon as the company looks to offer the zactrack PRO, zactrack SMART, and zactrack mini track kits to users across the region.

Stephan Saremba, Managing Director of zactrack International commented on the move, as he shares “We are excited about joining forces with Procom and we are looking forward to this partnership. Both companies have a clear focus on providing high-quality products, excellent customer service and solutions to address customer needs in the various markets we are active in. With the commitment and expertise of Procom we are aiming to strengthen

relationships with existing zactrack users as well as to expand into new markets. We are thrilled to welcome Procom to the zactrack family and jointly grow the Middle East market with zactrack solutions.”

zactrack’s advanced tracking systems combine light, sound, and video into a centrally controlled system, all in one product. This represents a new era of dynamic, human-centric show effects with limitless applications: concert tours, television studios, theaters, houses of worship, and elaborate installations. zactrack offers the right solution for every production, creating a truly immersive experience for audiences on multiple levels. zactrack employs a sophisticated system of sensors and software to track the movement of performers on stage. These sensors, often small and unobtrusive, emit radio signals detected by receivers. The system then processes this data to generate real-time 3D positions of the performers.

Affirming plans to showcase the capabilities of zactrack’s tracking systems in their dedicated display area and showroom; Procom Middle East asserts that this strategic alliance solidifies the company’s position as a premier provider of cutting-edge technology solutions in the Middle East.

“We have seen the demand for tracking solutions precede the product offerings available, and we are happy to make it accessible in the region. I am especially excited about the zactrack mini kit, which is able to offer affordable tracking for everyone,” says **Rami Harfouch, General Manager at Procom Middle East**.



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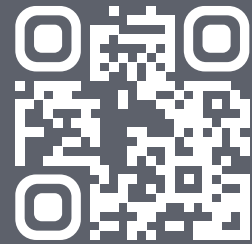
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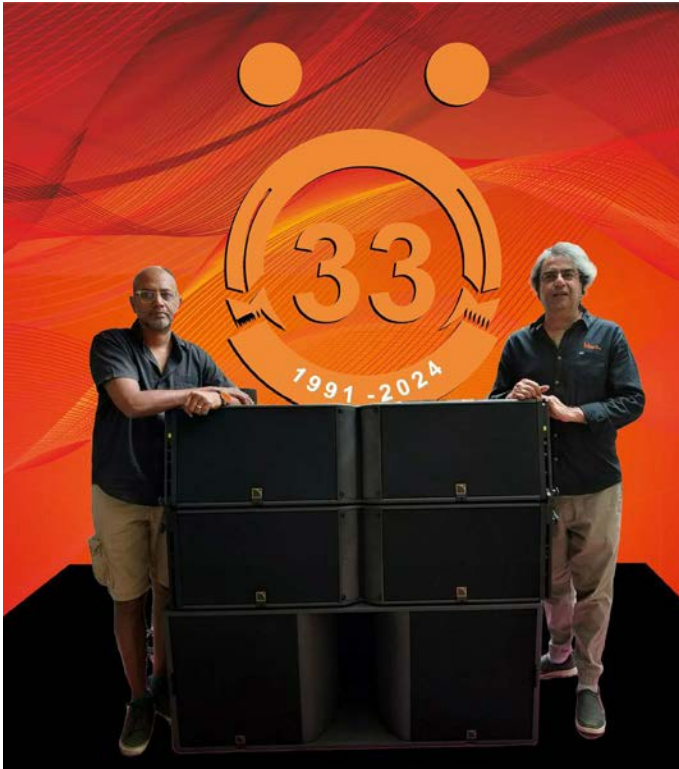


**Meet the
trainer**

Alex studied electro acoustics at the University of Applied Sciences in Cologne, Germany. His close collaboration with Apogee Sound Inc. and Adamson Systems Engineering helped him develop a deep expertise in large-scale sound systems. From 2005 to 2010, he worked with Real Sound Lab, focused on measurement software and correction tools, where he served as Director of Pro Audio. With over 35 years of experience as a sound engineer for broadcast, live sound, and system engineering for multiple tours, Alex effectively bridges theory with real-world applications. Since 2010, he has lived in Asia, developing his career and actively working across the APAC region.

INDIA

Mowzz Entertainment Celebrates 33 Years of Excellence with Major Investment in World-Class Tech from L-Acoustics & Celto Acoustique



From its inception, Mowzz has only partnered with globally reputed brands for its inventory – be it loudspeakers to backline and anything in between. We’ve consistently set the benchmark for quality and performance in everything that we’ve done over the past 33 years; and this year proved to be the perfect time for Mowzz to leap into a new era of performance excellence!” exclaims **Zakir Alladin, Founder Director** of Hyderabad based ace rental solutions company **Mowzz Entertainment** who celebrated its 33rd glorious year of technical excellence within the Indian live event scene with a significant inventory upgrade.

Known for commissioning splendid soundscapes for some of the most prominent events that have

graced southern India, Mowzz Entertainment has enhanced its tech portfolio with state-of-the-art sound systems from globally acclaimed brands, **L-Acoustics** and **Celto Acoustique**. This move not only reaffirms Mowzz’s status as a premier pro sound partner but also aligns the company with the latest advancements in live sound technology to cater to its growing portfolio of premium clientele and ever-effervescent event landscape.

Speaking about Mowzz’s decision to partner with L-Acoustics, **Prakash Savio, Partner and Head of Technical Production at Mowzz Entertainment** informs that the move was made after careful deliberation; “A strong commitment to superlative performance and reliability, coupled with an unmatched passion for pushing the envelope of sonic excellence, is what we at Mowzz share in common with L-Acoustics! And a perfect example of this is the L-Acoustics K Series, which is recognised as an industry standard worldwide for delivering a level of performance that very few can match. We wanted to be part of the exclusive network of L-Acoustics users, which in and of itself, comes with its own set of benefits — from growth opportunities to access to advanced products. It was a logical choice for us as on our ascending path of elevating our service standards”

The centrepiece of Mowzz’ investment in L-Acoustics is the K2 line array system; with the company acquiring 12 units of the K2 3-way active, dual 12” line array modules, complemented by 8 units of the formidable



enabling team Mowzz to deliver consistent, top-tier performance for all kinds of event specifications.

Mowzz's purchase of the new L-Acoustics gear was facilitated by Hi-tech AVL, the official distributor of L-Acoustics products in India, and the move solidifies Mowzz's position in the elite circle of L-Acoustics rental partners within the country. And Zakir noted that the recent L-Acoustics meet organized by Hi-tech AVL for Indian partners played a pivotal role in affirming their choice.

"It became clear during the meet that our decision was right. We've already seen an uptick in business opportunities thanks to the investment, with new clients eager to leverage our upgraded capabilities" states Zakir as he adds, "Our strategic investment in L-Acoustics underscores our intent to stay ahead in a competitive industry, and to ensure that Mowzz remains a go-to choice for premium events and productions. But this is just the beginning. We're committed to building a comprehensive L-Acoustics K Series kit in the near future, which will enable us to support events of all scales across India. The K2 and KARA II units are just the foundation; there's much more to come as we aim to set new standards in live event production!" he exclaims.

KS28 reference high-power dual 18" subwoofers. "This combination perfectly delivers the kind of world-class sonic performance, power, clarity, and reliability that meets the demanding needs of premium large-scale events and world-class artists that Mowzz serves on a regular basis", Zakir asserts.

At the same time, Mowzz has also added 12 units of the L-Acoustics KARA II 2-way active, dual 8" line array modules to ensure enhanced versatility across various event scenarios, with Prakash praising the KARA II for its "exceptional coverage and flexibility that makes it ideal for a wide range of event applications and system configurations."

The investment in L-Acoustics also includes multiple units of the robust LA12X power amplifiers and the LA-RAK II AVB touring rack, which together offer reliable power output and advanced routing control capabilities; thereby

While the L-Acoustics upgrade captures much of the spotlight, Mowzz has also made headlines with another notable acquisition; as it holds the distinction of being one of the earliest adopters of the Celto Acoustique isoRAY system in India. With 16 units of the isoRAY10+ loudspeakers and 8 units of the powerful CSW221 dual 21" subwoofers; Prakash notes that this investment decision was influenced by the system's unique blend of compactness, aesthetics, and performance capabilities.

“The decision to invest in Celto Acoustique’s isoRAY system was driven by a need to cater to niche markets that demand high-end compact sound solutions. The system is extremely lightweight and compact which makes it perfect for logistics; and its overall performance value is exceptional across key metrics like power output, coverage, directivity, and of course, tonality. All-in-all, the system is perfect for premium events, where aesthetics and sound quality are equally crucial!” he exclaims.

And rounding off the company’s comprehensive investment line-up, Mowzz Entertainment has also expanded its impressive backline inventory with the addition of the industry standard Pearl Reference 9-piece drumkit (with high-end Zildjian K Custom cymbals), along with the Montage M6

M7 and M8 keyboards from industry leaders Yamaha, and several guitar amplifiers from globally renowned brand Mesa Boogie.

Taking stock of the company’s overall investment decisions, Zakir exudes great confidence about an exciting future for Mowzz Entertainment, as he concludes, “In total, these strategic investments have positioned Mowzz as a more agile and astute service provider that effortlessly meets the evolving needs of its esteemed clients. This is why I’m very optimistic about a bright future for Mowzz Entertainment. Our investments are not just about staying current; they’re about setting the stage for the next 33 years. We want to lead the way in India’s live event industry, and this is just the beginning.”

CHINA

360° Soundscapes with L-Acoustics L-ISA and BlackTrax Bring Going Rural to Life

The theatrical production *Going Rural* made its debut this autumn at the prestigious **China National Opera House** captivating audiences with an innovative blend of storytelling and cutting-edge technology. Co-produced by China Coal Mine Art Troupe, Shaanxi People’s Art Theatre Company Limited, and People.cn Co., Ltd., the production received funding from the China National Art Fund 2023. And its successful blend of advanced audio technology with traditional storytelling marks a turning point for immersive theatrical experiences in China.

The premiere at the China National Opera House further highlighted the production’s significance. The venue, which opened in July 2022, offered an architectural and acoustic setting that perfectly

complemented the production’s innovative approach to sound design.

Featuring an L-ISA Immersive Hyperreal Sound system from **L-Acoustics** combined with **BlackTrax** tracking technology, the production redefines theatrical soundscapes, transforming the performance into a 360° immersive audio journey. This groundbreaking integration placed audiences at the heart of rural China’s agricultural transformation, immersing them in the challenges and renewal of Yuan Di Village—a key apple-producing region along the Yellow River.

The decision to implement L-ISA immersive audio technology showcased its versatility and ability to elevate theatrical productions. “The sound on



stage and the actors' subtle expressions achieved perfect harmony," remarked **Han Hongzhi, Vice President** of the China Society of Stage Art and **director** of the Audio Professional Committee. "The vocal clarity and positioning accuracy brought audiences directly into the story. As a national theatre company, the China Coal Mine Art Troupe has achieved remarkable results with this production."

Sound Designer Zhang Haikun collaborated with L-Acoustics certified system engineers to craft a sophisticated audio solution that aligned with the production's artistic vision while overcoming the physical constraints of the venue. Using the L-Acoustics Soundvision 3D simulation software, the team meticulously planned speaker placement and coverage requirements to ensure an optimised audio experience.

The resulting L-ISA configuration comprised five main arrays, each featuring two units of the A15

Focus and two A15 Wide enclosures, selected for their compact size and medium-throw capabilities. Two hangs of KS21 subwoofers were positioned behind the central array to deliver deep, impactful bass. For spatial front-fill, ten units of the 5XT speakers were evenly distributed across the stage lip, while an additional ten units of the X8 enclosures provided surround sound, strategically positioned around the sides and back of the auditorium.

The system relied on dual L-ISA Processor II servers connected via Milan-AVB networking, with signal conversion and redundancy managed through the L-Acoustics LC16D network audio bridge. This setup ensured seamless integration and provided consistent spatial coverage throughout the audience area, maintaining pristine sound quality and precision.

Performers wore BlackTrax beacons, enabling real-time positional tracking that seamlessly



communicated with the L-ISA system. This technology ensured dialogue and vocals remained accurately spatialised, regardless of performer movement.

“The integration of L-ISA and BlackTrax represents a significant advancement in theatrical sound design,” explained Zhang Haikun. “This collaboration allowed us to create an immersive environment where audiences experienced perfect synchronisation between what they saw and heard, bringing them closer to the performance than ever before.”

Leveraging the object-based mixing capabilities of L-ISA, the production team designed a rich sonic environment that enhanced the narrative. Sounds of the Yellow River’s flowing waters, wind, rain, and thunder enveloped the audience, creating a vivid backdrop that complemented the storyline. The immersive sound system also maintained

crystal-clear dialogue and musical elements, ensuring the narrative remained at the forefront. By utilising spatial audio processing, the system enabled precise positioning of sound effects and music, shifting acoustic environments to match the story’s evolving locations. This dynamic audio approach deepened audience engagement, connecting them more intimately with the tale of rural development and technological innovation. “This production illustrates how L-ISA immersive audio technology can transform traditional theatrical spaces into multidimensional environments,” noted Han Hongzhi. “Its ability to create precise, spatially accurate soundscapes while preserving intelligibility represents a remarkable leap forward for theatrical sound design.”

With *Going Rural*, immersive audio has set a new benchmark for theatrical productions, proving the power of technology to amplify both storytelling and audience experience.

MIDDLE EAST

MA Lighting Partners with Procom Middle East for GCC and Lebanon Distribution



MA Lighting International - globally recognised for its state-of-the-art lighting control solutions, including the industry-leading grandMA series – have announced its exclusive distribution partnership with **Procom Middle East** for the Gulf Cooperation Council (GCC) region and Lebanon. This strategic collaboration will officially take effect on January 1, 2025, heralding a new era of growth and innovation for MA Lighting in the Middle East.

“We are delighted to join hands with Procom Middle East as our trusted partner in the GCC region and Lebanon,” stated **Stephan Saremba, Managing Director** of MA Lighting International. “Our companies share a commitment to offering premium products, outstanding customer care, and innovative solutions that meet the specific demands of the markets we serve. Procom’s expertise and dedication position them perfectly to support existing MA Lighting users and introduce our solutions to new audiences. We

are excited to welcome Procom to the MA family as we expand our presence and success in this dynamic region.”

Procom Middle East, headquartered in Dubai, UAE, is a leading provider of professional audio, lighting, video, and rigging solutions in the GCC region. With decades of industry experience, Procom has established itself as a centre of excellence in lighting control, making it the ideal partner for MA Lighting. And through this partnership, Procom will provide comprehensive support for MA Lighting products, including after-sales services, technical expertise, training programs, and ensuring product availability across the region.

“Procom is a centre of excellence in lighting control. This makes it the natural home for MA Lighting in the region,” said **Charbel Zoghbi, Commercial Director** at Procom Middle East. “Our commitment to multi-lingual training programs, technical support, after-sales services, and product availability ensures that MA Lighting solutions will be accessible to all. We are proud of the trust that MA Lighting has placed in us and are excited to represent their world-class products in the GCC and Lebanon.”

This partnership with Procom Middle East appears to be a significant step in strengthening MA Lighting’s presence and providing enhanced support to customers in one of the world’s most vibrant markets for professional lighting technology. And with this collaboration, both MA Lighting International and Procom Middle East appear poised to redefine industry standards and continue setting benchmarks in the region’s professional lighting landscape.

MIDDLE EAST

Creative Technology Invests in Ayrton Lighting Products to Deliver Cutting-Edge Experiences



Creative Technology (CT), a global leader in technical production solutions, announced a landmark investment in **Ayrton** lighting products, distributed by **Procom Middle East** in the GCC and Lebanon. This significant investment underscores CT's dedication to delivering world-class lighting solutions and elevating client experiences across the Middle East region.

The investment includes 100 units each of the Argo 6 FX100, Kyalami, Rivale Wash, and Cobra fixtures, as well as 120 Rivale Profile fixtures. These versatile and powerful fixtures are renowned for their exceptional performance, reliability, and innovative features. These state-of-the-art lighting fixtures will elevate Creative Technology's ability to deliver stunning, immersive lighting designs and visuals. This investment ensures Creative Technology can

meet the dynamic needs of their clients across a broad spectrum of events, including concerts, corporate gatherings, theater productions, and live television broadcasts.

Andy Reardon, managing director of Creative Technology Middle East (CTME), commented "I am thrilled about this significant investment in cutting-edge lighting technology. These state-of-the-art fixtures represent a new era for Creative Technology Middle East. With their unparalleled performance and versatility, we are poised to push the boundaries of lighting design for our clients across the Middle East. This marks an exciting step forward in our mission to redefine excellence in event production."

Sam Connolly, Head of Lighting and Power at Creative Technology Middle East added,

"I'm absolutely excited about this next step for Creative Technology's lighting department. Adding the Rivale Profile and Wash to our Ayrton range is a game-changer, and being one of the first in the Middle East to have them is something we're proud of. These fixtures, along with the Kyalami and its innovative laser engine, give us the tools to push creative boundaries even further and deliver truly exceptional lighting designs for our clients. This is a big leap forward in what we can offer. Working with Procom has been excellent due to their extensive inventory of lighting fixtures and deep understanding of our rental business needs, which made the entire procurement process smooth and efficient. Their attention to detail in service and exceptional availability of fixtures have been invaluable. We greatly value our close partnership with Procom and look forward to continuing this successful collaboration in the upcoming year." – Sam Connolly, Head of Lighting & Power

Sharing the same enthusiasm, **Charbel Zoghbi, Commercial Director at Procom Middle East** expressed his views on CTMEs investment, as he quipped, "We are pleased to see Creative Technology invest in Ayrton lighting products. This partnership reinforces our dedication to providing industry-leading solutions and support to our valued clients. We thank CT for their continuous trust in Procom and Ayrton,"

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SINGAPORE

The Production People (TPP) Invest In JBL Audio



Responding to increasing demand for premium audio solutions at large-scale events, **The Production People (TPP)** has made a significant investment in JBL's state-of-the-art audio systems, marking a milestone in their journey to deliver exceptional sound experiences. Following a strategic divestment of audio inventory during the COVID-19 pandemic, 2024 heralds a new chapter as TPP scales up its offerings to meet the needs of diverse and expanding events.

The reinvestment decision was inspired by a visit to the JBL Tour Summit in early 2024. **Sheldon Gooi, Director at TPP**, attended with his audio team and was impressed by the range of offerings from the VTX A-Series, from its innovative rigging, down to its comprehensive software solutions.

"The VTX system was a revelation," said Gooi. "From the seamless integration of hardware to the powerful sound quality, it's exactly what we need for increasingly large events."

To ensure the ideal solution for their operational needs, **Electronics & Engineering (E&E)'s** team worked with TPP to facilitate in-depth testing of the VTX system directly within their warehouse. With JBL VTX A8, A6, B18, and B28 loudspeakers at their disposal, TPP explored various setups and techniques. Hands-on support from Harman's team, including on-site training, further solidified the team's confidence in the system's capabilities for flawless event deployment.

This collaboration also resulted in TPP replacing its entire Portable PA inventory with the JBL EON One Compact, EON One MK2, PRX908, PRX912, and PRX918XLF. These additions ensure consistent sound quality across diverse events, from small meetings to large-scale conferences and live music productions.

"We specialize in a broad spectrum of events, and having consistent, high-quality audio solutions is paramount," said Gooi. "JBL's extensive product range, coupled with E&E's exceptional after-sales

support, ensures we deliver premium sound and service at every event. This partnership positions us as leaders in the market, ready to take our audio offerings to new heights."

Gary Goh, CEO of E&E, remarked, "We've enjoyed a longstanding relationship with Sheldon, and it's been rewarding to grow this collaboration over the years. We're delighted to see this partnership evolve through their latest acquisition, which will undoubtedly elevate event experiences for their clients."

"JBL's rich heritage in consistently delivering professional loudspeakers with unparalleled performance and reliability, based on a deep understanding of the demands of live sound makes it a solid investment," said Amar Subash, VP & GM, HARMAN Professional Solutions APAC. "We are happy to welcome TPP to the fast-growing network of VTX Series rental houses across APAC and are excited to see them elevating live event experiences with JBL."

INDIA

Central India's Audio Reinforcement Standards Witnesses Uptick with DAS Audio LARA



Team Agrawal Sound & Light with their new DAS Audio LARA system.

Indore-based audio rental company **Agarwal Sound & Light** has expanded its inventory with the addition of the **DAS Audio** LARA large format line array system. The purchase includes 18 units of the LARA-80 cabinets and 18 units of the LARA-SUBs, further solidifying Agarwal Sound & Light's

commitment to delivering cutting-edge audio reinforcement solutions for Central India's most demanding events.

Speaking about the new acquisition, **Anoop Agarwal, Director of Agarwal Sound & Light,**



Team Sangam Sound with their new DAS Audio LARA system.

remarked, "DAS Audio is a reputed brand known for its reliability and innovation in line array systems. We wanted to invest in the latest technology, and the cardioid design of the LARA cabinets makes them ideal for large stages. The system excels even at high SPL levels with minimal distortion, while the ALMA control software provides seamless control of all parameters. This investment underscores our commitment to elevating the audio experience for our clients."

In the same stride, Bhilai-based burgeoning rental outfit **Sangam Sound** (aka SS Pro Sound Professionals / Sangam Bhilai) have also entered into DAS Audio LARA's growing camp in India, as the company have recently acquired 16 units of the LARA line array modules along with 12 units of the LARA-SUBs and DAS Audio Smart Racks. The company asserts that this investment reflects the company's intentions to consistently enhance their technical service offerings, while aiming for consistent exponential growth within its geographic region and beyond.

The LARA system, DAS Audio's flagship large format line array, is a 4-way symmetrical, cardioid, self-powered solution boasting 6000 Wrms of power and an impressive linear performance of 146 dB SPL MAX. Designed for large-scale events, the LARA features rear attenuation of -15 dB in the range of 63 Hz – 200 Hz, thanks to its innovative cardioid configuration.

Eshdeep Bhasin of Stagemix Technologies LLP the authorised distributor for DAS Audio in India, expressed his enthusiasm about the collaboration, stating "We were keen to introduce the DAS Audio flagship LARA system to a reputed user in Central India. The sheer SPL output, wide dynamic range, and exceptional performance of the LARA system make it a game changer in the realm of large format line arrays. We are thrilled that Agarwal Sound & Light and Sangam Sound have chosen this system to redefine audio experiences in the region."

MIDDLE EAST

Robe Middle East to Distribute Avolites



Avolites announced a change in partnership in the Middle East, which will see the UK-based lighting and visual control manufacturer distributed and serviced by **Robe** Middle East as of January 1st, 2025.

Service and support throughout all Middle Eastern countries will be managed via the considerable resources, experience and organisational infrastructure of Robe Middle East, headed by **Managing Director Elie Battah** and his talented team.

It will give Avolites investors, users, and customers in the area access to the Robe Middle East Technical Centre, which will become the hub for Avolites sales, tech support, repairs and returns plus an active schedule of Avolites training opportunities and initiatives currently being developed.

Paul Wong, Managing Director of Avolites, thanks Procom Middle East for their “incredible” work that has delivered and supported Avolites products in the region for the last 15 years, a collaboration that has positively impacted and

shaped the landscape of live performances, theatre productions, and architectural lighting.

This restructuring follows Avolites’ acquisition by the Czech lighting manufacturer in September 2023, on which Paul commented, “We are looking forward to a new era for Avolites in the Middle East and a successful long-term strategic working relationship with the Robe Middle East subsidiary which will benefit all involved in Avolites.”

The Robe Middle East HQ in Dubai will feature a full showroom set up dedicated to highlighting the latest Avolites’ technologies, including the brand new D7-330 and D7-215 control consoles and the latest Prism media software release bringing outstanding power, flexibility, and intuitive control for all visual environments. Also showcased will be Avo’s flagship Diamond 9 lighting control console and their T3 and T3-W, small-footprint professional lighting control products, for ultimate portability, compactness, and performance.

Avo’s tried, trusted and much-loved Tiger Touch II and Quartz consoles will be set up for demo to illustrate options for more budget-conscious project scenarios and their ‘Production Grade’ Q-series media server range will be highlighted with the Q3, demonstrating the Synergy feature set that unites the worlds of lighting and video.

“We look forward to engaging with all levels of creative visual designers, directors and programmers and offering exciting, user-friendly, super-streamlined workflow options for all presenting their visual elements for the live show and performance environment,” concluded Robe Middle East’s Elie Battah.

MIDDLE EAST

d&b audiotechnik Celebrates New Middle East Subsidiary in Dubai



d&b audiotechnik global/en/ aims to make a significant impact in the Middle East through its new subsidiary, d&b audiotechnik Middle East, based in Dubai. This strategic expansion reinforces the company's commitment to its customers in the region, bringing advanced technologies and expertise closer than ever before. The newly established office will be led by **General Manager Brad Maiden**, supported by a team comprising **Regional Sales Manager Kassim Salim** and **Education & Application Support Engineer Richard Fenton**. Together, the team will focus on strengthening customer engagement, fostering strategic partnerships, and delivering a comprehensive regional training program, which is already in place. This local presence will work hand in hand with an experienced network of sales, integration, and rental partners to ensure that d&b audiotechnik's renowned audio solutions deliver exceptional experiences across various industries.

As an official entity of the globally respected d&b audiotechnik brand, the Dubai office will offer access to groundbreaking technologies such as the SL-Series loudspeaker systems and d&b Soundscape. These innovations have been celebrated for their ability to redefine audio performance, offering unmatched full-range broadband directivity and immersive soundscapes that elevate audience experiences. From concert halls to large-scale events, these technologies enable artists and venues to create transformative experiences with precision and clarity.

In collaboration with trusted regional partners, including Provision AVL, 7Hertz, Technology KAR, and Southby Middle East for sales, and Creative Technology ME, AVI-SPL, Quality AV, and Vibe for integration and rental, d&b audiotechnik ME is well-positioned to serve diverse markets. These



Joseph Tawadros playing his interpretation of Hurrian Hymn No.6 on d&b Soundscape at Dubai Opera.

partnerships are instrumental in facilitating education, distribution, event delivery, and systems integration across a variety of industries such as stadiums, performing arts centres, hospitality venues, themed attractions, and event production. The combination of cutting-edge technologies and a strong partner network ensures that d&b audiotechnik ME can meet the dynamic demands of the Middle East market.

Amnon Harman, CEO of d&b group, describes this development as a significant milestone in the company's global growth strategy. "The launch of d&b audiotechnik Middle East is an important milestone in our global growth strategy," he notes. "Our new entity accelerates our efforts to bring our advanced technologies to our customers in this exciting and dynamic region, helping them to create exceptional experiences for audiences of all sizes. Our commitment to the region is underlined by the expertise and market knowledge of our exceptional local team."

Brad Maiden echoes this enthusiasm, highlighting the Middle East's potential for embracing d&b audiotechnik's signature sound. "Our vision for the Middle East is to further

promote our signature sound and advanced technologies that so many of the world's top artists and venues have embraced as their brand of choice," says Maiden. "The Middle East is technologically progressive and with the award-winning SL-Series taking the world by storm, d&b Soundscape and the roster of new products we have coming to market in the next twelve months, we are excited to unlock even greater possibilities for various industries. We have a great team, a great partner network, and are eager to contribute to the entertainment and cultural landscape in an impactful and sustainable way."

Further underlining its commitment to the region, d&b audiotechnik ME has been announced as the Official Technology Partner of Dubai Opera, a testament to its support for iconic cultural institutions. With a strong local presence, robust partnerships, and a portfolio of industry-leading solutions, d&b audiotechnik is poised to redefine audio excellence in the Middle East, setting new benchmarks for immersive and transformative sound experiences.

Sonos Libra Wows Wonderfruit 2024 with Adamson Fletcher Machine



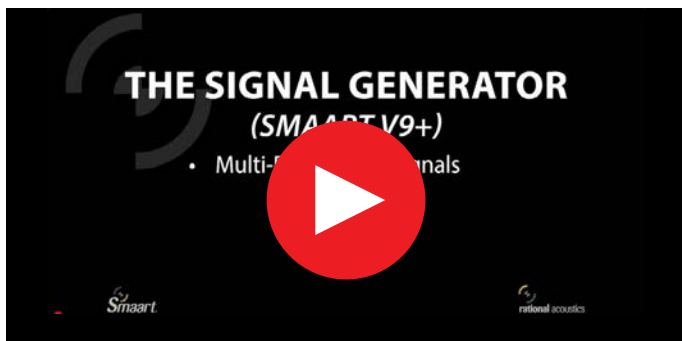
To engage audiences at the Enfold Wonderfruit 2024 with a natural sound experience; Sonos Libra, for the first time, deployed the Adamson Fletcher Machine – with the immersive audio system incorporating advanced algorithms and speaker technology that assures zero distortion and natural sound replication.

MOS Engineers Invisible Roof for Bergen Philharmonic Orchestra



The innovative 'Invisible Roof,' engineered by MOS and designed to host performances by the Bergen Philharmonic Orchestra, enhances acoustic quality, visibility and comfort, while being versatile enough for various events. The roof features an impressive 19-meter span and 9.4-meter clearance.

Smaart Signal Generator Update



The new functionalities available in the Smaart signal generator following the Smaart 9.5 update covers output configuration, custom presets, various noise signal options, and the usage of external audio files as test signals, providing a comprehensive guide for users.

Exploring Wideband Bidirectional Wireless Audio with Sennheiser Spectera



Spectera employs a time-division multiplexing approach to utilize the entire bandwidth for each microphone but only for a short duration (60 microsec). This method allows for up to 64 channels to operate simultaneously while maintaining low latency under 4 milliseconds, a critical factor for live audio transmission.

Shaping Tomorrow: Next-Gen Tech that Enjoyed the Spotlight at LDI 2024

The LDI Show 2024 at the Las Vegas Convention Centre culminated in a dazzling spectacle of innovation – as one of the industry’s most anticipated platforms for product unveilings, this year’s edition didn’t disappoint, bringing together cutting-edge solutions that redefine possibilities in lighting, video, and beyond. From groundbreaking advancements in IP-rated fixtures to intelligent solutions pushing creative boundaries, the event highlighted how the future of live production is brighter—and smarter—than ever.

Here’s a look at some of the standout product launches that captured the spotlight at LDI 2024.

ASTERA QUICKSPOT

Astera unveiled **QuikSpot**, an innovative battery-powered LED spotlight designed for fast-paced big events and media productions. This compact, zoomable luminaire offers exceptional performance, rapid setup, and versatility for professionals seeking efficient lighting solutions. QuikSpot is Astera’s brightest sub-60W fixture, delivering up to 3000 lux at 3 meters (13°) and featuring the OutputGain function, which lets users toggle between maximum brightness, deep color saturates, or high CRI with perfect skin tones. Its IP65-rated, lightweight design (3.5 kg) ensures excellent performance for both stage and on-camera use, maximizing Return on Investment.

Powered by Astera’s Titan LED Engine, QuikSpot boasts a 13°–60° zoom range, a refined “one-shadow” Fresnel optical system, and superior RGBMA color rendering. Accessories like rotatable 8-way barndoors, SafetyLink, and various creative tools make it ideal for applications ranging from key lighting to punchy backlights. Its QuikTurn zoom mechanism, 10 times more efficient than traditional filter-based systems, enables hard-light spot performance and flood lighting without color shifting or multiple shadows. It is also



compatible with existing AX5 front attachments such as filters, domes, and snoots.

QuikSpot supports both wired and wireless operation, with a battery run time of up to 4.5 hours at full power (OutputGain activated) and 20 hours in energy-saving modes. The QuikSpot’s inbuilt batteries can be charged directly in the case via electrical contacts, eliminating extra wiring. Accessories like the ChargingPlate and PrepBox simplify setup, enabling DMX assignment, pairing, and pre-programming of up to eight fixtures in seconds.

CHAMSYS

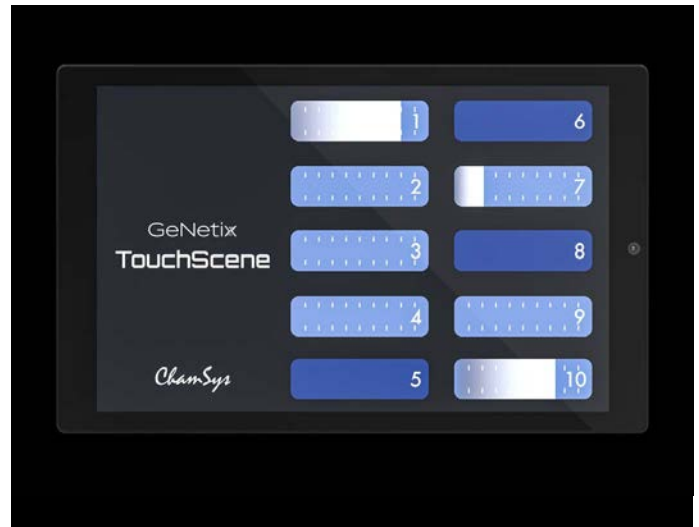


MagicQ Compact.

Debuting at the company's LDI booth, the **ChamSys MagicQ Compact Wing**, and **GeNetix TouchScene** are loaded with features that take flexibility to new heights, helping users excel in a variety of settings.

The highly anticipated MagicQ Compact Wing, with its extended playback surface, offers 20 playbacks – 10 fader and 10 executor playbacks. Each section of playbacks can page through multiple playbacks via its own Next and Previous page buttons. All the playbacks feature a large full colour display for playback with the legends located directly above each playback. The 10 playback Faders feature Flash, Go and Select (via its Touch display), while the 10 space-saving Executor playbacks employ a Select and Execute button for each playback. And adding to its impressive versatility, the MagicQ Compact Wing is equally at home when combined with the Compact Connect on PC Systems.

The new GeNetix TouchScene series with the GeNetix TouchScene and GeNetix TouchScene MINI are wall-mounted touch panel displays



GeNetix TouchScene.

that enable remote scene activations at the press of a button. With cues provided through a ChamSys control system, The TouchScene family are able to provide precise remote control of the system and various levels of operation. The larger TouchScene features an 8-inch display, while the Touch MINI has a 4-inch screen. Both sizes integrate with MagicQ, QuickQ, and GeNetix Nodes for activation of cues. Both also have a customizable UI layout design when connected to MagicQ Quick Q Systems, as well as support for custom background images. Intended for the installation market, the TouchScene is similar to the 10Scene Wall Plates, but with the advantage that the touch display enables button functions to be labelled on the display. The touch display can be changed, providing more flexibility than plates that are limited to fixed button functions labelled by paper. The versatile TouchScene shows faders instead of buttons. However, it can also show faders with buttons. In either case, the TouchScene handles more advanced features, such as colour picking that allows the user to choose from a rainbow colour picker. Again, more choices bring more power, more flexibility, and that, of course, leads to more outstanding results!

CHAUVET PROFESSIONAL



Maverick Storm 1 Flex.

CHAUVET Professional built its LDI exhibit around the theme of “Reveling Our True Colors.” And a pair of notable examples of this capability could be seen in exciting new additions to the wildly successful Maverick Storm and STRIKE series of fixtures. Boasting several new features in tow, the **Maverick Storm 1 Flex** and **STRIKE V**, are both built on the highly regarded reputations of their namesake series in terms of output and performance.

The Maverick Storm 1 Flex is a high-output, IP65 520W lamp-free multi-functional fixture that delivers a smooth, consistent output without the disruptive hotspots associated with traditional discharge lamps. The fixture allows designers to enjoy the flexibility of a multi-functional unit alongside the reliability of advanced LED technology. Sharp beams and dynamic effects, CMY+CTO color mixing, a tight 2.4° to 53° zoom, layerable prisms, rotating gobos -- all of them and more are packed into the durable IP65-rated



STRIKE V.

Maverick Storm 1 Flex, which also features a Sky Tracker Mode that allows up to four fixtures to operate in unison and allow for creating dramatic aerial effects for large-scale applications.

On the other hand, the STRIKE V goes beyond its famous Color STRIKE M cousin, as this breakthrough hybrid strobe-wash offers two layers of 48 RGB LEDs that can be pixel mapped individually. The STRIKE V's groundbreaking individual pixel control opens doors to unlimited creative possibilities, with this motorized fixture boasting a variable electronic frost plate that can change beam angles instantly at the press of a button. Plus, with its 180° tilt, versatile mounting options, and rugged IP65-rated durability, the company looked confident that the intensely bright STRIKE V will find itself right at home in a wide variety of applications in 2025.

ELATION PROFESSIONAL



Elation Professional unveiled the **PARAGON** series, an advanced line of intelligent lighting fixtures designed to deliver exceptional performance, adaptability, and reliability. Sporting the Paragon S and Paragon M, the brand-new series combines sleek design with cutting-edge technology, as it redefines modern lighting for entertainment, offering precision, versatility, and durability.

Equipped with a custom-designed white LED engine and Elation's TruTone variable CRI system, PARAGON enables seamless adjustment between CRI 70 and CRI 93 for unmatched colour accuracy and intensity. This flexibility lets designers switch effortlessly between high-CRI key lighting and bold effect lighting within a single production. Its advanced CMY colour mixing and linear CTO allow smooth transitions and dynamic effects,

empowering limitless creative possibilities. Furthermore, each PARAGON fixture features a precision-engineered lens system that can be interchanged between Profile, Beam, and Wash configurations, adapting to various roles. With an IP54 weatherproof rating, PARAGON delivers consistent performance in both indoor and temporary outdoor environments, offering durability without compromising on output or compact design.

The PARAGON S features a 550W LED engine and 20,500 lumens, it offers a 5°-50° zoom, rotating and fixed gobos, animation wheel, prisms, and framing for precise beam shaping; whereas the PARAGON M is powered by a 900W LED engine with 37,000 lumens as it provides a 5°-52° zoom, dual gobo wheels, enhanced framing, and expanded effects for larger-scale applications.

GLP

Celebrating 30 years of innovation within the lighting industry, **GLP** unveiled five new products—the **Mad Maxx**, **FUSION EXO Hybrid 40**, **impression S500**, and prototypes of the **JDC Burst** and **impression X5 IP**—representing the next generation of show production lighting.



The IP65-rated Mad Maxx redefines fat beam lighting with a massive 750mm beam diameter, comparable to traditional 3kW and 7kW xenon fixtures. Compact and energy-efficient, it operates on standard power networks with just 2500W, making it ideal for both SkyBeam and stage effects.

It features a 135mm front lens, 3.8°-46° zoom, CMY colour mixing, dual prisms, gobo wheels, and a frost system, ensuring versatile beam, spot, or wash applications.



Upgraded with a powerful 500W LED engine, the Impression S500 series offers 65% more output than its predecessor. The Wash HC and Profile HC models provide 26,000lm with superior CRI/ TLCI > 95, tailored for TV, theatre, and musicals. The Profile HO delivers 40,000lm at 7000K for high-intensity applications, making it a versatile solution for demanding productions.



Part of the IP65-rated Exo Series, the FUSION EXO Hybrid 40 380W Beam-Spot LED fixture delivers exceptional performance for small-to-medium



The IP65-rated JDC BURST 1 tiltable strobe and wash light is equipped with 1090 RGBW LEDs

and 144 white LEDs, offering selectable white points and fast 190° tilt. Designed for outdoor use, it resists harsh weather and debris, ensuring reliability for live events.



And finally, powered by 19 RGBL LEDs, the IP65-rated Impression X5 IP offers 14,000 lumens, a 3.6°-63° zoom range, and GLP's iQ.Gamut algorithm for pristine colour mixing. Engineered for rugged environments, it guarantees robust performance for outdoor and live event productions.

CLAY PAKY

Clay Paky introduced to the world for the very first time the **Ultimo Hybrid**— a luminaire that combines a high IP66 rating and extended lamp life in a compact, lightweight fixture packed with innovative features. Offering impressive brightness, a wide zoom range, and a versatile effects engine, it allows lighting designers to push creative boundaries and craft remarkable visual experiences.

Powered by an advanced 550W short-arc lamp, Ultimo Hybrid offers an impressive 19,000-lumen output and a lifespan of up to 4,000 hours, providing reliable performance across countless shows while reducing



replacement and energy costs, making it the go-to solution for low maintenance applications. Its motorized linear zoom smoothly delivers precise coverage in both projection modes, from tightly focused beams to evenly collimated spots.

Despite its compact size, the fixture boasts a 160mm (6.3 inch) front lens and high-quality optics, ensuring sharp images and collimated beams without compromise. Ultimo Hybrid incorporates an advanced Four-focal Plane Shutter System, a complete color mixing system, a rich package of gobos and effects and the Absolute Position Innovation, a proprietary system that remembers the fixture's exact position in real-time without requiring a reset, even after power interruptions. This innovation guarantees precise and consistent re-positioning and refocusing, significantly reducing setup time.

ETC Unleashes High End Systems Zeo



ETC has expanded its automated lighting portfolio with the launch of the new **High-End Systems Zeo**. Designed as a versatile, multi-functional moving light, Zeo delivers a range of capabilities, including blinder, strobe, wash, beam, and effect lighting, tailored for concert tours and live stage applications.

The Zeo stands out with its distinctive design, featuring a central LED monolith surrounded by four RGBW LEDs and a patented reflector array. Its square-face design is enhanced by ETC's HaloGraphic Pixel Definition technology, enabling a variety of unique visual effects. According to **Matt Stoner, Automated Lighting Product Manager at ETC**, "The design potential Zeo brings to the stage goes beyond its sheer brightness. The square face design, highlighted by our patented HaloGraphic Pixel Definition technology, gives this fixture an abundance of unique looks, readily accessible with tons of included macros."

Offering full pan and tilt functionality, Zeo provides impressive flexibility for stage designers. Its optics deliver beam angles ranging from narrow 13-degree beams to expansive 55-degree washes, while the high-output RGBW LED engine ensures vibrant, dynamic colours. As a blinder, the Zeo achieves a remarkable output exceeding 30,000 lumens, meeting the demands of high-energy live performances.

The fixture is equipped with over 100 pre-programmed macros, enabling quick and efficient access to a wide variety of effects. These include strobe macros, colour macros, and flexible, user-customisable macros, making Zeo an accessible solution for programmers at any skill level. Additionally, each LED cell can be individually controlled, facilitating pixel mapping and custom effects for more intricate designs.

"Zeo is unlike any fixture we've developed in the High-End Systems family. Designers are going to be astounded by all the different ways this fixture can energise a show," comments Tania Lesage, ETC Market Manager.

As with all ETC products, the Zeo is backed by the company's 24/7 customer support service. The fixture also includes ETC's standard warranty, along with a five-year warranty for the LED array, reinforcing its reliability and durability for professional use.

PLIANT TECHNOLOGIES

Pliant Technologies, a leading provider of professional wireless intercom solutions, introduced its latest innovations and product updates aimed at professionals in the entertainment technology space, from theatres to live production and broadcast. The brand highlighted its **CRP-C12 Compact Radio Pack**, an award-winning addition designed for seamless integration with **CrewCom** and CrewCom CB2 systems; alongside its updated **SB11L2 SmartBoom LITE headset** and the new **PHS-IEHU Miniature** In-ear headset to provide even more headset options for its customers. In addition, Pliant also featured new accessories,



such as the PBT-VMNT Radio Transceiver (RT) Battery Adapter and the PAC-RTM-SMU Universal Single RT Mounting Bracket to further demonstrate the flexibility of its CrewCom Radio Transceiver.

MARTIN VDO SCEPTRON XB



HARMAN Professional Solutions launched the **Martin Professional VDO Sceptron XB**, a compact, high-performance LED pixel-batten designed for lighting and creative video applications. Building on the strengths of the VDO Sceptron family, the XB offers user-friendly mapping, easy diffuser and lens exchange, and a variety of rigging accessories, while delivering significantly enhanced performance and usability.

The VDO Sceptron XB boasts over twice the white lumen output and up to five times the saturated colour output of its predecessor, the VDO Sceptron 10. Powered by RGBW LEDs, it offers superior light quality with improved CRI, TM-30, and TLCI metrics, making it ideal for precision

illumination of people, décor, and focus areas. It supports control via Art-Net, sACN, and Martin P3, or both simultaneously with the P3 Mix channel, enabling seamless transitions between video and light control.

Key features include Extended Gamut Calibration for consistent whites with colour temperature and tint control, richer saturated colours, and built-in effects macros. Its IP65 rating makes it suitable for indoor and temporary outdoor use, while an integrated hibernation mode enhances energy efficiency. The fixture also supports a wide range of optical and rigging accessories, ensuring flexibility across various applications.

ROBE



LedPOINTE

Over the three action-packed days, **Robe** launched two new products – the **LedPOINTE** and the **T.5 Profile** – and showcased several other new lighting fixtures for the first time at a US trade show, including iBOLT which has just been approved and is available for US and Canadian markets. In addition to LEDPointe and the T.5 profile, four other new Robe products – the iFORTE Fresnel, the PAINTE Fresnel, the SVOPATT, and the SVB1 luminaire – were all seen for the first time in the US, all attracting plenty of interest.

Robe's LedPOINTE harnesses the TE 280W XP White LED TRANSFERABLE ENGINE, delivering 160,000 lx at 5m with an L70 rating of 50,000 hours. Designed for versatility, it offers a 1.8°–44° zoom range, seamless CMY colour mixing, pre-calibrated whites (2,700K–8,000K), and



T.5 Profile

advanced effects, including two gobo wheels, MagFrost filters, and Robe's patented MLP and SpektraBeam prism systems. Built for durability, it features EMS stabilisation, L3 dimming, Cpulse flicker-free control, and AirLOC technology, all in a compact 21kg fixture.

The T.5 Profile packs the power of the T1 Profile™ into a more agile 20.5kg design. Equipped with a 350W MSL Multi-Spectral light source, it delivers 7,500 lm output, a 2,700–8,000K CCT range, and advanced colour controls, including CRI and green correction. Precision beam shaping is achieved with the Plano4 FC system, 5°–55° zoom, replaceable gobos, MagFrost filters, a 6-facet prism, and an animation wheel. Its noise-reduction technology, RCC calibration, AirLOC, and Cpulse ensure flawless performance in sensitive environments.

ROBERT JULIAT



Robert Juliat at the showfloor

Partnering with ACT Entertainment, **Robert Juliat** showcased its new line-up of innovative and quality LED lighting solutions that captured the attention of lighting professionals across the industry. And demonstrated on-site were the Sully 10.5-22.5° (115W LED) for smaller spaces, the Tristan 7-14.5° (825W LED) for mid-sized venues, and the Arthur LT 4-10° (800W LED) for large-scale applications, each delivering exceptional performance and versatility.

The **Tristan followspot** with its compact body and powerful 825W LED engine, rivals the performance of traditional 1800W MSR followspots; as this innovative model features a unique motorized iris that allows users to create precise iris presets for enhanced creative control. Equally versatile, Tristan excels in front of house, truss, and backlight positions. The remote display, which provides real-time iris and dimming values, simplifies operation and workflow; while

the option to connect remote controllers from multiple positions - whether at the back or side of the followspot - offers unparalleled flexibility for operators.

On the other hand, the **Bizet 670SX** profile spot drew significant interest as a powerful tuneable white LED profile spot designed for front of house applications, thanks to its superior colour rendering, boasting a CRI of 96-98 and a TM30 Rf of 94-96, delivering high quality whites and precision lighting. As a thrilling preview of what's to come, the brand unveiled an exclusive first look at the upcoming Lexie followspot. Compact in size, comparable to the Roxie model, yet with a powerful output, Lexie features a 400W LED engine delivering approximately 15,000 lumens with a crisp 6500K cool white source. Its official launch is slated for early 2025.

Vari-Lite Launches VL600 Acclaim+ Series Theatrical Luminaires and VLHive 151 Digital FX - world's first all-digital entertainment lighting fixture

Vari-Lite the originators of the modern moving head light fixture and **Signify** entertainment lighting brand, announced the new VL600 **Acclaim+ Series** of theatrical luminaires. The new luminaires, which include a Fresnel and an ellipsoidal profile light engine, offers the same core capabilities as Vari-Lite's popular VL600 Acclaim Series line, but with more output and features for larger venues.

The VL600 Acclaim Series has been a popular family of theatrical luminaires since their launch. With a multichromatic RGBL colour mixing system, excellent light quality, and industry-leading output, the fixtures are perfect for small to medium sized theatres and houses of worship. The new VL600 Acclaim+ Series expands the range, increasing the output and adding features to meet the needs of larger spaces."

Both the VL600 Acclaim Fresnel+ and the VL600 Acclaim PLE+ share the same RGBL colour mixing system as the existing Acclaim Series fixtures, but with a 305W LED engine for over 15,000 lumens of output. The fixtures also include onboard Ethercon connectivity for direct control via sACN or Art.Net without a separate DMX gateway.

The VL600 Acclaim PLE+ works with Vari-Lite's wide range of fixed and zoom lens tubes and includes an onboard four-blade manual shutter system, for superior control to shape the light how you want it. Similarly, the VL600 Acclaim Fresnel+ allows designers to achieve dramatic



Vari-Lite VL600 Acclaim+ Series

highlighting capabilities thanks to the large 8" front lens and an adjustable 10° to 50° motorized zoom that provides both DMX-controlled and manual adjustment with minimal light scatter. The VL600 Acclaim Series is part of a complete solution for theatrical lighting applications, and the new Acclaim+ Series ensures that solution is also available to larger applications. When combined with Vari-Lite's recently launched RigSwitch+ Series power platform and their FLX S Series or Neo X Series consoles, consultants have a full integrated system for entertainment lighting installations of any size.



VLHive 151 Digital FX

The brand has also launched the **VLHive 151 Digital FX** – the world’s first all-digital entertainment lighting fixture. This next-generation luminaire, designed and manufactured at Vari-Lite’s Dallas, Texas, USA factory, includes a digital light engine, with 45,000 lumens of output and pixel-level control.

The VLHive’s 151-emitter LED array offers a variety of digital effects, including 360° rotating digital shutters, full-close digital iris, and a library of built-in digital gobos and multichromatic animations. Users can even create their own shapes and animations using the HiveCreator software tool. The VLHive 151’s exclusive, patented technology gives designers an endless range of unique effects, including effect smoothing, polar positioning, transition effects, and gobo keystone—all of which can

be controlled on the fly by standard DMX. And thanks to unique Vari*glass technology, designers can convert the large 12” front lens to a frosted projection surface at the press of a button, switching seamlessly from mid-air effects to direct-view animations on the fixture’s face.

The IP65-rated luminaire features an RGBL additive colour mixing engine that provides a wide range of colors, from soft pastels to vibrant saturated hues. To improve the output and colours, the VLHive boasts exclusive technologies, such as SmartColor+ and FluxBoost. SmartColor+ is an updated version of Vari-Lite’s colour control solution for multichromatic engines that allows designers to select the perfect balance of output and CRI for their application while achieving the best-looking colors possible using familiar CMY colour mixing control. And thanks to FluxBoost technology, designers get more output across the colour spectrum, along with more saturation and more consistent light quality. This intelligent algorithm maximizes the output of enabled channels in multichromatic LED luminaires, for better power utilization and lumen output, whether you’re using a deep red or a cool white.

Martin Professional Introduces Companion Mobile App-Based Lighting Fixture Configuration & Diagnosis Tool



HARMAN Professional Solutions has introduced Companion Mobile, an app-based version of **Martin Professional's** popular Companion fixture management, firmware upload, and stand-alone programming tool. Designed for use with Martin NFC (Near Field Communication)-enabled fixtures, including the MAC Viper XIP, the app supports seamless fixture configuration and management, with compatibility for additional fixtures planned in the near future. Companion Mobile is available for free on iOS and Android platforms.

Building on the capabilities of the Companion Desktop application, Companion Mobile simplifies fixture configuration by utilising NFC to establish wireless communication. A key advantage of this NFC interface is that fixtures can be configured without needing to power them on. Whether the fixtures are still inside their flightcases or on-site, users can configure them with a simple tap

of a smartphone against the fixture's display, streamlining setup processes and saving valuable time.

The app seamlessly synchronises with Martin's fixture library over the Internet, eliminating the need for manual downloads or updates. Additionally, Companion Mobile synchronises automatically with Martin-made GDTF files hosted on the GDTF share, providing users with comprehensive access to fixture details, including DMX Modes, DMX Channel Listings, and Gobo Loadouts. For increased flexibility, these GDTF files can be exported directly from the app, ensuring compatibility with any GDTF-supported software solutions.

Wouter Verlinden, Product Manager for Martin Professional Creative LED, Lighting & Control, highlighted the app's significance for lighting professionals, stating, "Thanks to the valued suggestions and feedback we receive from our incredible LD community, adding this capability has been a high priority as it truly is a game-changer. NFC was the perfect protocol to utilise because we could give just about anyone with a phone or mobile device the capability to access and manage their fixtures with just a tap, without even needing to power them on."

The app's intuitive design introduces several key functionalities tailored for modern lighting workflows. The Fixture Configure feature enables users to input fixture settings with a single tap, allowing multiple fixtures to be quickly configured in succession. The Fixture Check function simplifies diagnostics when fixtures return to the warehouse, offering error and warning notifications through simple taps. Data can also

be collected from multiple fixtures and exported into standard CSV files, providing users with a clear overview of fixture status without needing to power them up.

Adding further utility, the Fixture Action function allows users to trigger basic actions, such as running SelfTest sequences or resetting fixtures to factory defaults. These tasks can be executed efficiently by tapping fixtures, even when they remain inside their flightcases, ensuring readiness for future deployments. Meanwhile, the GDTF View & Export feature provides access to Martin's full library of GDTF files, offering insights into fixture specifications such as DMX Modes,

Channel Functions, and Gobo Images. Users can export these files effortlessly for integration with GDTF-compatible software platforms.

With Companion Mobile, Martin has combined modern technology and user-centric design to deliver a powerful tool for lighting professionals. By enabling fixture configuration, diagnostics, and management without the need for power, this innovative app enhances workflow efficiency while offering a new level of convenience for the industry.

Avolites Announces Prism 'early access' Edition Release of its Popular Media Software

Avolites announced the release of Prism 'Early Access', the latest edition of its popular media software. Prism 'Early Access' (E.A.) edition can be downloaded for free via the Avolites website and becomes operational when used in conjunction with an AVOKey (Avolites licence key). The full Prism ONE paid license release is currently scheduled for the Spring 2025; when the 'Early Access' edition of Prism will be superseded.

Prism is a specialised software application developed by Avolites, principally for lighting designers, tailored for media playback and designed specifically for the live events and entertainment industry. Prism (E.A.) edition introduces multiple banks and layers that can be controlled via Prism's UI and/or via Avolites lighting control application 'Titan' which utilises the Synergy layer control.

Prism is composed of two parts – the Server and the UI. The UI itself provides the main functions and a common interface for the software. When the UI is closed, Prism can still run its server in the system tray. This allows the features set to still be controlled with Titan to run a show, even on the same machine as Prism, this has the advantage of reducing processing overhead cost and provides the facility to operate both media and lighting from the same PC for the less complex event setups.

Not only does this new release offer Multiple Layers and Multiple Banks, but in addition users can now take advantage of Preview Window, Cross Fade duration and Speed Control. The increased layer count in Prism allows for greater creativity and flexibility within the mix, giving you more choice over where your content sits. Multiple banks bring much more of your content



under your control as well as the ability to import and export existing banks between projects. Prism's new preview window allows you to easily prepare and adjust media before being live in the mix and set unique characteristics for each piece of content. Improved cross fade and speed control give additional functionality to further adjust your media playback and tailor it to specific needs.

Prism also allows for input sources to be added including NDI input and Live input – e.g. USB capture / webcams allowing you to bring other visual sources such as guest VJs or presentation data into the show. Virtual returns add the ability to take any layer from the mix and use it elsewhere within your project allowing for further creative possibilities. These can all be set up via the Input Settings page and adjusted via the Preview window.

Prism currently enables 1 physical output and 1 NDI output; limited to 1 Surface, 16 Layers, and 256 Banks, with each bank able to hold up to 256 elements.

Even more features are available on Prism (E.A.) edition, which include added Hardware Decode acceleration for H.264/H.265 and added Region of Interest on outputs. As well as with Synergy: added control to surface and layers, added NDI previews and added cross fade duration and speed control.

Listen!



First and foremost, I wish you all a very happy 2025 and hope for the best of success and lots of interesting jobs along the way. I have a few technical topics lined up, but I want to get this one off my chest first. I don't know how many of the million musicians jokes

and stagehands jokes and memes you are aware of, but one of the earlier jokes about Front of House engineers was this: Question: Do you know how to freak out any Front of House engineer? Answer: You walk up to the Front of House mixing position and tell the engineer: "You hear that for yourself, right?" and then just walk away.

This is one of those one-liners with quite deep meaning on many levels for anyone who has worked as a Front-of-house engineer. The background here is that there might be something in the mix that is not right that the engineer might not have heard for whatever reason. It could be that he or she was not aware and had not registered with him or her yet, or it was audible a distance away from the front of the house but might not be audible at the actual front of the house position. It could be anything related to the sound system, the console, or the actual content of the mix that did not sound right. Then, of course, the imaginable front-of-house engineer will freak out about the gazillion possibilities of what could be wrong, and since the person in charge of the mix somehow did not hear it, they are running down every rabbit hole to find and eliminate what is not right yet. And even if the concert or the show was perfect and sounded great, and everything was beautiful, raising this question at FOH will freak them out.

Music has undergone so much development, and things that were considered unacceptable technically in the past might be the fashion and taste of the day, tomorrow or anytime in the future. Taste is a rather personal and subjective matter; there is no universal arbiter of taste and what is good. Suppose, however, an artist has created a piece, a song or an entire album or show, and they consider their product good and ready. In that case, an accepted idea is that whenever and wherever this product is played anywhere, it should resemble the original content well. I hope this does not sound too cryptic, and I want to be sure that no one out there has the impression that I claim to have the ultimate taste and recipe for how anything should sound. My guess is almost always as good as yours. However, when I listen to content, my analysis could be deeper and more precise than yours if you are a rookie in this industry. With a level of seniority and experience in what we are doing, we are gaining more and more tools to analyze and understand even rather complex content and can chop it up into manageable pieces that we can work on while working on the project.

With this in mind, I want to address a few thoughts and ideas that I have found helpful, but at the same time, after you have learned those concepts, hearing anything that does not adhere to those ideas will sound quite a bit strange to your ears. Occasionally, you will learn new concepts and ideas; eventually, your ears and brain will get used to those as well. As a practical example, the use of compression is as good as anything. Typically, compression controls any signal's dynamic range and makes the signal work well for the show's mix and audience. In the early Techno music days, "pumping compressors" were introduced as a creative tool. It took many of us quite some time to get used to hearing

something all the time that we had learned all of our professional life was a clear “no no no no!”, suddenly becoming the taste of the day. For those unfamiliar with the concept of a “pumping Compressor”, this means that compression and release of a given compressor are used constantly in an audible way for the music content. For the longest time, this was a total “no go” for anyone doing live sound or live TV work, and still, it is not trivial and requires excellent signal management to keep the dynamic under control and not have this pumping sound effect showing up in your mix.

Another good example is the use of reverberation. Three decades ago, a good reverb unit meant a substantial financial investment, many times relatively outsized cost against the use, but making good reverb sound was expensive to do, and only a few companies seemed to know how to do it right and how to make it sound “natural”. However, if and when you owned one of the more expensive units, your ability to create a mix that your personal hearing system would like and approve of was suddenly much higher. A third good example is the “Gated Reverb”. Until the invention and introduction of the “gated reverb” effect, this was actually quite something undesirable to hear. Why would you harshly cut off a nice reverb flare with a “Gate” when you paid so much to create the nice reverberation flare? Once we got used to it, though, it became a signature sound for many drummers; Phil Collins, one of the more famous Rock and Pop drummers, used this all the time.

When I watch engineers mix, and I had the chance to do so during many seminars and hundreds of trainings, I watch and listen to how they approach and go about putting the mix together. The different approaches are fascinating to watch and listen to how their mixes’ results change. If someone asks me for help, I

will share what I think and how I go about my work, but I make it clear that this is my personal approach and not an absolute recipe for how it should sound. You can then see what they hear and how the brain will tell them what they need to change, and they will try to fix it with the toolbox that they brought and have available at the job. Many get lost in details, and by the end of the allocated sound check time, they have a great-sounding kick and snare but are as far from having a mix as you could be.

In my experience and understanding, it is essential to develop the ability to listen, analyze, and then take action based on what you have heard and analyzed. The corrective measure also always needs to ensure that if you make changes that do not improve your mix the way you want it to, then do not introduce those changes permanently. The old bypass switch was a great tool to tell you which one you like better, with or without the change. You will also want to develop the ability to understand when the limit of what you can accomplish under any given circumstance or time constraints is reached. Do not try harder, as it might get worse to the point where it annoys the artist and the audience. The general rule “never touch a running system” also applies here with “if it sounds good, leave it alone”. You don’t get paid for making changes or fader movements; you get paid to make it sound great and beautiful, so let’s do that. As always, I wish you enough gain under your faders and some clean and fresh ears on the job.

Join the conversation and share your thoughts with Alex. Alex can be reached at alex@asaudio.de

Transforming Light

Adrian G.S. Goh on Projection Mapping, Innovation, and the Evolution of Hexogon Solution



Adrian G.S. Goh, Group Managing Director of Hexogon Solution Pte Ltd, is a name synonymous with innovation in the AV industry. With over two decades of experience, his journey from visual merchandiser to an award-winning leader in projection mapping is as inspiring as it is insightful. In this interview, Adrian shares his path to success, his passion for defying limits, and his vision for the future.

How did you get involved in this industry?

My career began as a visual merchandiser for a luxury brand, where I worked for over a year. This experience sparked my interest in creative displays and experiential design. However, I soon transitioned into freelancing, as I wasn't able to register my own company at the time. In 1997, I officially established Mozz Creation, focusing on exhibitions, trade shows, and events.

As I sought to expand the business and offer more comprehensive solutions, I began creating in-house departments. For instance, when exhibitions required printing, I set up my own printing division. Similarly, when lighting and sound were needed, I built a dedicated team rather than relying on external vendors. My curiosity and passion eventually led me to projection mapping, a medium I found fascinating for its ability to transform the atmosphere of a show. This passion inspired me to delve deeper into the AV industry, culminating in the creation of Hexogon Group of Companies after more than 12 years in the field. This journey wouldn't have been possible without the dedication of an incredible team.



The 28th SEA Games saw Hexogon Solution earn a Guinness World Record.

Why did you decide to specialise in projection mapping, or was it something you pivoted to later on?

What fascinates me most about projection mapping is how it defies the inherent limitations of light. Physics tells us that light can't bend, yet this technique allows us to create the illusion that it can. The first time I saw how projection mapping could wrap seamlessly around a 3D object with incredible precision, I was captivated.

With carefully crafted animations, balanced control of ambient lighting, and meticulous planning, projection mapping manipulates perceptions and transforms almost anything into a canvas for storytelling. Even today, I remain obsessed with pushing the boundaries of what's possible. I'm constantly seeking to map onto iconic or challenging structures, finding new ways to elevate this art form and explore its potential.

What were your goals with regards to Hexogon when you started the company?

Hexogon started as a blank canvas, born out of the many ideas I envisioned during my time

with Mozz Creation. My business approach is structured yet adaptable: I recalibrate every five years. This long-term planning allows us to maintain stability and build reserves during successful periods, enabling us to aim for bigger goals in the next cycle. If challenges arise, we're prepared to adapt and average out over the five years.

This strategy has been a cornerstone of how we've survived several global crises, including the recent pandemic. My overarching goal remains: "Keep Moving UP." With careful planning and focused execution, progress is always the target.

How has the company grown over the years?

Over the past 27 years, we've expanded from a small three-person team to around 240 employees across Singapore, Thailand, Vietnam, Japan, and Taiwan. This year our immediate plans include re-starting our office operations in Hong Kong and set-up our office in the Philippines. More is in the pipeline as the economy finally normalises from the post-pandemic hype.



Hexogon Solution has been involved in the Singapore National Day Parade for more than 10 editions.

What motivated you to start regional offices?

Establishing regional offices ensures sustainable growth and accelerates returns on investment. More importantly, it enables us to learn from different countries and cultures, fostering a richer flow of creative ideas. This cross-cultural exchange drives innovation and pushes us to think bigger.

Can you share three projects you are most proud of and why?

The Singapore National Day Parades, the 28th SEA Games, and our first ever projection mapping project at NEX Mall stand out as milestones. The projection at NEX Mall, though done free of charge, was incredibly meaningful. It confirmed that we had discovered the right formula for projection mapping.

The National Day Parades began in 2012 with an ambitious goal: to win 10 consecutive tenders for projection. We surpassed that goal, even skipping a year when projection wasn't required. The 28th SEA Games in Singapore was another pivotal moment, involving 160 projectors on a single canvas. It earned us a Guinness World Record and showcased the possibilities of projection mapping.

What is next for the company?

We've explored augmented reality (AR) as part of our future-proofing strategy and will continue to grow it though it's not our primary focus. We're also delving into intellectual property (IP) shows, with plans to make our productions more engaging and sustainable. Additionally, we will invest aggressively in AV elements beyond projection mapping and expanding into more countries. Exciting developments are on the horizon.

What continues to spur you on? Would you consider yourself a risk-taker?

The Goh family, the Hexogon family, and my boundless curiosity drive me forward. While some see me as a risk-taker, I'd describe myself as someone who takes calculated risks. I carefully weigh potential outcomes and plan before making any move.

Adrian Goh's journey from a visual merchandiser to a global leader in projection mapping exemplifies the power of curiosity, innovation, and resilience. With Hexogon's continued expansion and ventures into new technologies, Adrian's vision of "Keep Moving UP" promises to redefine what's possible in the AV industry.

The 2025 Blueprint: Hopes & Aspirations

Exploring Potential Market Trends In Events, Technological Development, Investment, and More

by Elton Noronha



The Saudi Games. Credit: Your Wolf Agency.

As we stand at the threshold of 2025, the live event technology industry is buzzing with anticipation. This dynamic and ever-evolving sector, encompassing everything from sound and lighting to projection mapping and stage automation, is poised for yet another transformative year. The industry's trajectory is shaped by two key stakeholders—manufacturers who drive innovation and rental companies that serve as the hands-on custodians of these technologies.

For manufacturers, the journey to 2025 is all about redefining boundaries. They are at the cutting edge of technological advancements, striving to anticipate and shape market demands; and a majority of brands look to leverage their unique tech offerings in not just growing their presence across geographical boundaries, but also ushering in a new wave of performance excellence that's driven by operational efficiency.



“With increasing emphasis on environmental responsibility, there is growing demand for lighting fixtures that are both powerful and energy efficient. Lighting designers and event organisers will seek solutions

that minimise environmental impact without compromising on creativity and performance. Therefore, we expect rental companies to prioritise investments in durable, sustainable lighting solutions. The demand for weather resistant (IP65) fixtures also continues to increase, and there is a growing preference for products that integrate seamlessly with advanced control systems, enabling more dynamic and responsive lighting designs” shares **Michael Muenz, General Manager, GLP German Light Products (GLP) Asia Ltd.**

At the same time, with immersive experiences considered a norm within today’s live event landscape, manufacturers across the board have invested time and resources into developing technologies that not only meet user expectations, but set a precedence for future standards of audience experiences.



Owen Ironside, Sales Manager - APAC, Meyer Sound, offers perspective on this as he mentions, “As Meyer Sound looks toward 2025, we anticipate continued momentum in the adoption of immersive audio

technologies and scalable, high-performance

sound systems that meet the evolving demands of live events. Immersive experiences are no longer a niche offering—they’re becoming a standard expectation for audiences who have grown accustomed to multidimensional audio in everything from consumer headphones to cinematic experiences. Technologies like our free Spacemap Go spatial sound design and mixing tool; and our Constellation acoustic systems are removing barriers to immersive sound, enabling creative deployments that can transform live performances and venues of all sizes. Rental partners are increasingly focused on versatile, future-proof technologies that provide exceptional performance today and adaptability for tomorrow’s requirements. And we’re seeing preferences shifting toward sound solutions that check multiple boxes across key metrics like performance, portability, and return on investment. Systems like our PANTHER large-format linear line array and the 2100-LFC low-frequency control element deliver power and studio-quality sound in a compact, lightweight footprint, reducing transport and rigging costs while meeting the scalability needs of everything from intimate theaters to massive stadium tours.”

Innovative Approaches Driving Emerging Market Trends

Seamless Integration: One of the most significant trends manufacturers foresee is the growing demand for systems that work together effortlessly. In an era where live events are becoming increasingly complex, rental companies are looking for technologies that facilitate seamless interoperability across sound, lighting, video, and stage automation. This has pushed brands to prioritise compatibility and integrated workflows, ensuring every component communicates harmoniously.

Sustainability: The sustainability wave is hitting the industry hard—and for good reason. Energy-efficient designs, modular products,



The JJ20 World Tour in Bangkok, Thailand.

and recyclable materials are no longer optional but necessary. Manufacturers are doubling down on eco-conscious innovations, with LED lighting systems, low-power amplifiers, and biodegradable SFX materials leading the charge. The emphasis is not only on reducing environmental impact but also on creating products that last longer and perform better.

Compact, High-Performance Solutions: “Less is more” has become the mantra for manufacturers. From compact line arrays to portable lighting consoles, and modular stages that fold into surprisingly compact ‘tour packs’; brands are developing solutions that pack a punch while minimising physical and operational footprints. These innovations are especially critical in the APAC region, where logistical constraints often demand smaller yet powerful setups. The ability to deliver maximum output with minimal space and resources is a game-changer.

AI and More: Artificial intelligence is no longer a futuristic concept; it is a tangible reality shaping product development. From AI-powered mixing consoles that optimise sound in real-time to automated lighting systems that adapt to

changing scenarios, the potential of AI is limitless. Manufacturers are also leveraging machine learning for predictive maintenance, ensuring systems are always event-ready.

Visual Extravaganzas: Projection mapping continues to be a crowd-puller, and 2025 will see an explosion of advancements in this domain. Manufacturers are focusing on projectors with higher brightness, resolution, and colour accuracy, coupled with software that simplifies the mapping process. Videowalls, too, are becoming thinner, more flexible, finer in pitch, and easier to assemble – all while offering enhanced output, clarity and colour reproduction – thereby enabling stunning visuals for immersive experiences.

Safety Through Precise Automation: As stage performances become more intricate, safety in stage automation is a top priority. Innovations like load-sensing motors, wireless control systems, and redundant fail-safe mechanisms are setting new standards for reliability. Manufacturers are keenly addressing these challenges to ensure flawless and secure operations.



Phoenix Networks provides its services to the Kathmandu Music Festival 2024.

Customised Solutions for the APAC Market:

Understanding the diverse needs of the APAC region, manufacturers are tailoring products to cater to local climates, budget constraints, and cultural preferences. Whether it's weather-resistant audio systems for tropical regions or cost-effective lighting rigs for smaller venues, localisation is a key focus.

Practicality Meets Innovation: The Technological Investments Wishlist

While manufacturers envision possibilities, rental companies deal with the realities of implementation. Their expectations for 2025 revolve around efficiency, reliability, and adaptability. Here's what they're hoping for:

Ease of Use and Fast Deployment: Rental companies are clear about one thing—time is money. Systems that offer quick setup, plug-and-play functionality, and intuitive controls are highly valued, as these technologies help streamline event preparation. Auto-alignment features in speakers, pre-programmed lighting capabilities, modular staging solutions, automation across rigging and setup – all save precious hours during event preparation, making them indispensable. Plus, the increasing use of converged AV networks that enable seamless integration of audio, video, and lighting systems, simplifying setup and ensuring synchronisation – have now become essential. Protocols such as Dante, RAVENNA/AES67, AVB/MILAN, and MAD1 are crucial in facilitating interoperability between devices, reducing setup complexity, and enhancing operational efficiency.

Efficiency Redefined: Operational efficiency is more than just a buzzword; it's a necessity. Rental companies are leaning towards technologies that deliver high performance with minimal power consumption and reduced heat generation. For instance, line arrays with enhanced SPL and low energy draw, LED fixtures with superior thermal management, and projection systems with ultra-low latency are becoming industry staples. Optical fibre networks are increasingly being adopted, offering faster and more reliable signal transmission while reducing the bulk of traditional copper cabling, further streamlining event production.

Compact & Scalable Solutions: The ability to scale up or down without compromising quality is critical. Rental companies favour equipment that is lightweight, portable, and easy to store but can also handle larger event requirements when needed. Stackable subs, collapsible trussing, and modular SFX systems are prime examples of this trend. Scalable networked AV systems are also a game changer, allowing rental companies to

accommodate a wide range of event sizes with ease.

Maintenance Simplified: When equipment fails, the show doesn't stop—but it does suffer. Rental companies are looking for systems with robust diagnostics, modular designs for easy repairs, and predictive maintenance capabilities. This not only reduces downtime but also ensures longevity. While the focus remains firm on technologies and systems that offer a comprehensively simplified maintenance experience; one cannot deny a sharp boom in demand for equipment and workforce management softwares and platforms that help detect, predict and resolve issues in-real time.

Manufacturer Support: A strong after-sales support network can make or break a rental company's trust in a brand. Quick response times, comprehensive warranties, and easy access to local service centres are non-negotiables for rental companies when it comes to building trust with manufacturers. Companies also appreciate regular firmware updates that enhance functionality without requiring new investments.

Training and Upskilling: The rapid pace of technological advancements necessitates ongoing training. Rental companies expect manufacturers to offer workshops, certification programmes, and online resources to keep their teams up to date. Training in the use of networked AV systems, optical fibre installations, and advanced protocols is now viewed to be crucial to ensuring operational efficiency and competitiveness. Upskilling teams in network diagnostics and maintenance tools further are also viewed to be critical as it empowers rental companies to handle increasingly complex setups. Knowledge is power, and in this industry, it's also a competitive edge.

Sustainability and Social Responsibility: While it isn't as rampant and widespread as it should be yet – quite a few leading rental companies in the APAC region, particularly Japan, South Korea, Australia and New Zealand, have echoed the manufacturers' emphasis on sustainability and have begun prioritising eco-friendly practices. From energy-efficient equipment to recycling programmes, they are actively seeking ways to reduce their carbon footprint while meeting client expectations.

Technology Adoption and System Design Trends to Look Out For

There's little to no doubt that the APAC region is leading the charge in adopting new technologies for live events; and the growth projections across various domains certainly looks promising.

For example, adoption of advanced audio technologies, including immersive sound systems and AI-driven feature loaded audio technologies are expected to grow by 18–22% in 2025. As Owen Ironside informs "Meyer Sound made significant inroads in Asia in 2024, and we look forward to continuing to cultivate projects and partnerships throughout the region in 2025. A few highlights: our founders, John and Helen Meyer, toured marquis Meyer Sound installations in Vietnam, China, India, and Indonesia, and forged a new distribution partnership with PT Promedia Sejahtera Raya. The market in Asia is very sophisticated, and pushes us to be our best. We're recognized as an industry leader in Asia, and we want our customers there know how important they are to us as our growth continues."

Similarly, LED fixtures and automated lighting systems are also projected to enjoy an 18-22% year-on-year increase, driven by demand for energy-efficient and versatile solutions; while technologies such as lasers, and stage sfx gear like haze machines, fog machines, cold pyros etc

are estimated to witness a 15-18% increase in uptake this year. On the other hand, the rise in videowall adoption is expected to soar by 27% marked by a strong demand for transparent and flexible LED displays; whereas the market for projection mapping solutions is also set to grow by 24%. Plus, with the increasing scale of events, the adoption of stage automation systems is expected to grow by over 15%, focusing on safety and reliability. Modular and lightweight solutions across trussing and staging technologies looks poised to see a growth rate of 12-18%, particularly in markets like India, Indonesia, and the Philippines, where logistical efficiency is crucial.

That being said, it is important to note that the scale and nature of events dictate not only the adoption of various technologies, but also trends in deployment and system design. Here's how some of the technologies released in 2024 hold the potential to shape event experiences in 2025:

Live Sound

The deployment of live sound technology continues to evolve in response to the growing demand for high-quality audio across events of all sizes. For large-scale concerts and festivals, line array systems with advanced beam-steering capabilities have become indispensable. Leading brands such as **L-Acoustics** aim to be at the forefront of this innovation, with their immersive audio solutions like L-ISA setting new benchmarks for 360-degree soundscapes. The brand further advanced this technology with the introduction of L-ISA 3.0, which offers enhanced spatial audio experiences through improved processing power and user-friendly interfaces. For smaller venues, compact yet powerful loudspeakers are gaining prominence, and products like **Meyer Sound's** ULTRA-X20 stands out for delivering exceptional performance in a compact form factor. Wireless microphone systems are also seeing advancements in frequency stability

and interference resistance, with systems like Shure's Axient Digital ADX5D aspiring to set a new standard for audio quality and reliability across diverse event scales.

Stage Lighting

Stage lighting continues to thrive on the back of energy-efficient and versatile LED technology, which dominates the sector. Brands like **Claypaky, Robe, GLP** and **Martin Professional** are driving innovation in this space, with their latest products pushing creative boundaries. Claypaky's Xtylos Aqua is a waterproof laser-source moving head that offers dynamic effects suitable for a wide range of environments; while Martin Professional's MAC Aura XIP brings advanced pixel control and outdoor-rated durability, making it ideal for intricate lighting schemes. The demand for moving head luminaires remains strong, as they deliver unparalleled flexibility in lighting design. Robe Lighting's Esprite TC also stands out with precision optics and a transferable engine, ensuring consistent performance and long-term value for event organisers. At the same time, GLP's Mad Maxx, an IP65 LED fat-beam fixture designed primarily as a SkyBeam solution, offers robust design and versatility that make it ideal for both indoor and outdoor applications, catering to the growing demand for durable and weather-resistant lighting options.

Projection Mapping and Displays

Projection mapping continues to captivate audiences with its ability to transform spaces and tell compelling visual stories. The latest generation of projectors now offer higher brightness levels and 4K+ resolution, with **Barco's** UDX-4K40 Flex leading the charge with its 40,000 lumens and flexible brightness settings.

At the same time, videowalls are also becoming more integral to events, with modular LED panels

providing seamless visuals for a wide range of applications. **Unilumin's** Upanels II is a prime example of this trend, offering high refresh rates and exceptional visual performance. Additionally, flexible LED screens and transparent displays are opening up new creative possibilities for stage design and branding. LG's Transparent MicroLED Display exemplifies this innovation, combining high transparency and brightness to enable unique applications in live events.

Trussing

Trussing systems have become a critical component in live event production, with a growing emphasis on lightweight, modular, and easy-to-assemble solutions. **Prolyte's** Verto Truss exemplifies this trend with its tool-less assembly and enhanced load capacities, catering to the needs of touring productions and large-scale events alike. These advancements in trussing technology are not only improving the efficiency of event setup but also ensuring safety and reliability, making them indispensable for modern productions.

Staging Solutions

Staging solutions are evolving to meet the diverse needs of live events, with modular designs gaining popularity for their adaptability and ease of assembly. For example, **Staging Concepts' SC Pro Riser** combines quick assembly with anti-slip surfaces, making it a preferred choice for various event types. For high-profile productions, custom-built stages integrated with cutting-edge technologies are being used to create both visual and functional spectacles. These solutions are enabling event organisers to push creative boundaries while ensuring safety and efficiency. At the same time, brands like **Stage Audio Works** provides complete technology solutions for different types of events, ensuring customer satisfaction and continued growth, while affording create visual and functional spectacles.

Automation

Stage automation is increasingly being embraced as a key element in live event production, with a strong focus on safety, reliability, and dynamic performance capabilities. Motorised trusses, hydraulic lifts, and robotic stage elements are becoming standard features in large-scale productions, adding a new dimension to performances. Brands like **TAIT**, known for their advanced stage and automation designs, are setting new standards by integrating innovative solutions that enhance audience experiences. Also, brands like **StageSmarts** offer stage management and automation technology that support cutting-edge solutions for streamlined live performances. With automation technology continually advancing, it is playing a pivotal role in shaping the future of live event production.

A Shared Vision for a Transformative Year

As we embrace 2025, the live event technology industry is not just keeping pace with innovation—it is setting new standards. Manufacturers are breaking boundaries with cutting-edge designs, while rental companies are ensuring these technologies translate into memorable experiences. Together, they are creating a vibrant, collaborative ecosystem that thrives on creativity, sustainability, and technological excellence.

The year ahead holds immense promise for live events, offering endless possibilities for captivating audiences and creating lasting impressions. With its dynamic growth, the APAC region stands at the forefront of this evolution, shaping the future of live event technologies on the global stage.

INDIA

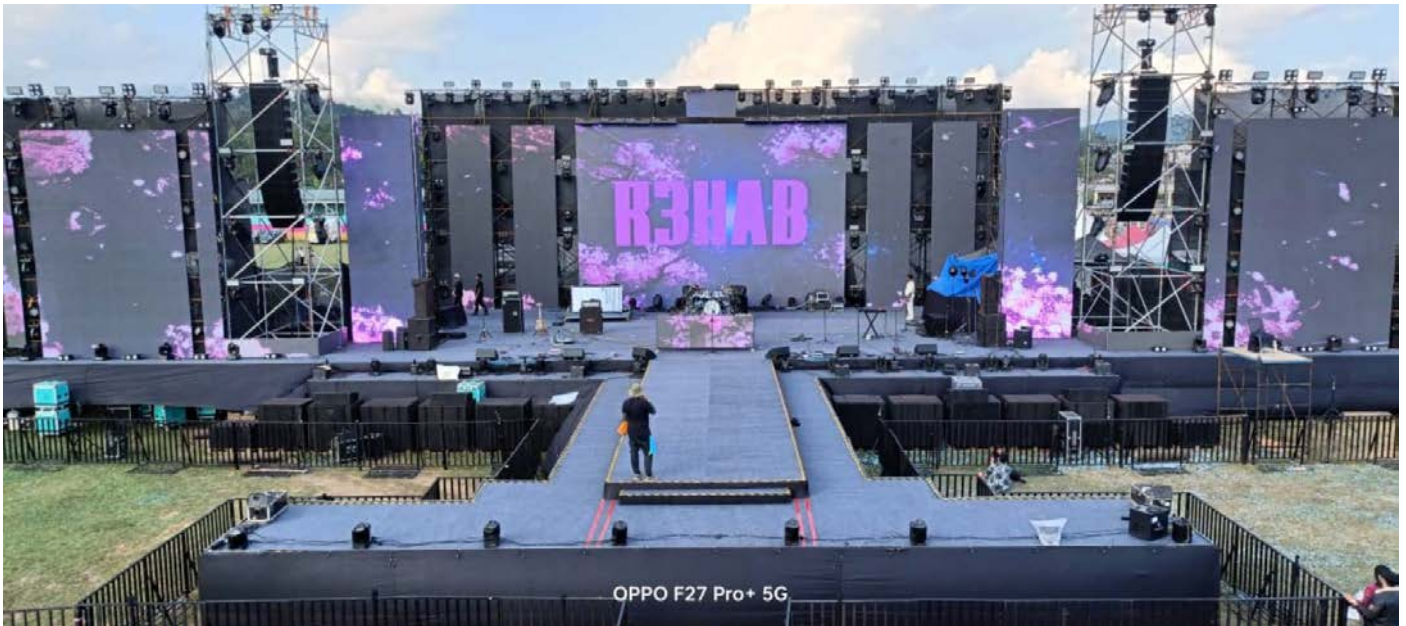
Sonic Excellence in Full Bloom as KG Movies Powers The Cherry Blossom Festival's Main Stage

Headliner acts thrive in a world-class audio environment that enralls 50,000 people, as the Cherry Blossom Festival assertively redefines festival standards



“The Cherry Blossom Festival represents everything we stand for—passion, innovation, and a commitment to excellence. And we are truly humbled by the faith that Jason Manners from Rockski EMG and Ali Zaidi and Anupam Arora from Event Network placed in us. This festival is undoubtedly a hallmark event in India’s live music scene, and it was an absolute privilege to work with such a visionary organising team. Together, we aimed to create a truly immersive sonic journey—and judging by the overwhelming response, I believe we delivered

true on that promise” comments **Manoj Singh, Director of KG Movie** as he notes that for his team, the Cherry Blossom Festival wasn’t just another project—it was a labour of love. “From breathtaking performances by global legends and Indian stars to the flawless sound engineering that elevated each act, the Main Stage at the Cherry Blossom Festival 2024 has become a testament to what’s possible when artistry and technology align” he concludes.



A Stage Where Legends Came to Life

Shillong, with its vibrant music culture and awe-inspiring landscapes, has once again proven itself as India's ultimate live music destination – all thanks to the **Cherry Blossom Festival 2024**.

Held on November 15th and 16th at the sprawling RBDSA Sports Complex, this unique celebration of all things art and culture, blossomed into a musical masterpiece as it united global and Indian artists on a scale rarely seen in India. Drawing an attendance of over 50,000 visitors on each of the two days of its span, this festival wasn't just another event—it was a sensory extravaganza that took the city's reputation as India's "Music Capital" to dazzling new heights.

Captivating and alluring – the festival's new cultural highlight was a picturesque Japanese village nestled amidst scenes of blooming cherry blossoms, offering visitors an idyllic escape between high-energy performances. Alongside, the festival boasted three distinct performance



stages, each of which boasted a power-packed line-up of fan-favorite artists from India and all over the world. All eyes, however, were on the Main Stage, where international icons like **AKON**, **Boney M**, and **Clean Bandit** shared the spotlight with Indian favourites like **Jasleen Royal**, **R3HAB**, and **Kanika Kapoor**.

But the real showstoppers weren't just the artists—it was the breathtaking production quality. The mesmerising mainstage was adorned with state-of-the-art sound systems, dynamic



LED displays, and intricate lighting effects that elevated the festival to a whole new level. And at the heart of this spectacle was the awe-inspiring sound experience, masterfully designed and executed by the team of experts at KG Movie – one of India’s most trusted live event technical solutions provider.

Precision in Every Detail

Tasked with creating a sonic landscape that would envelop every festivalgoer at the Main stage section, KG Movie collaborated with **Clockwork AV** (a division of Clockwork Design LLP) to deliver a seamless, immersive audio experience that – in many ways – assertively set a new benchmark music-lovers in India.

The on-ground operations team comprising **Vicky Singh** (Project Lead), **Joyjeet Panday** (Festival System Engineer), **Sourav Bagchi** (Monitor Engineer), **Anil Chaudhary** (Show Technical Manager), **Karan Acharya** (RF Engineer), **Akash Deep Majumdar** and **Yudhajit Biswas** (Stage Engineers) worked tirelessly to ensure that every

technical aspect – from inventory deployment to system calibration and seamless wireless communication – was executed with military precision. And ably supporting them were KG Movie’s talented system technicians, **Surojit Dhal** and **Ravikant Prasad**, who orchestrated equipment logistics and crew coordination with flawless efficiency.

“Our goal was simple yet ambitious—to deliver a seamless audio experience that matched the calibre of the artists performing on the Main Stage. The team worked tirelessly, from meticulously calibrating the system to ensuring on-the-spot coordination. Every individual member of the team played a critical role. And in the end, seeing the crowd’s reaction and hearing the artists praise the sound made every challenge worth it” shared Vicky Singh.

Crafting a Seamless Audio Experience

At the core of the sonic spectacle was a comprehensive **d&b audiotechnik** loudspeaker



system – meticulously designed and expertly commissioned by team KG Movie – that transformed the main stage into a sonic masterpiece. The KSL line array system formed the backbone of the main PA, with a total of 32 units of the KSLs adorning the performance stage in stereo configuration to provide pristine coverage across the audience. And complementing the sonic fidelity of the KSLs perfectly were a total of 16 units of the mighty SL-GSUB subwoofers and 12 units of the compact yet powerful B22 subwoofers that were strategically placed in front of the stage to deliver thunderous, chest-thumping bass that reverberated through the crowd.

Owing to the massive expanse of the mainstage performance section, team KG Movie took special care to ensure that audience members located at the farthest ends of the section also enjoyed a similar high-quality soundscape, as they craftily deployed a total of 24 units of d&b's V-Series line arrays to serve as the delay reinforcement system. The thoughtful loudspeaker system design, combined with d&b's signature voicing consistency across its systems, helped team KG Movie ensure a consistent, flawless and immersive audio experience for every last audience member, regardless of their distance from the stage.

It's also worth noting that artists performing on-stage too enjoyed an equally stellar soundscape, as KG Movie utilised d&b's trusted MAX2 loudspeakers as the main stage monitoring reinforcement, while also deploying a total of 6 units of T10 line array modules paired with B6 subwoofers as the side-fill reinforcements. And to further enhance the performers' experience,

over 24 channels of the acclaimed 2050 series in-ear monitors from **Sennheiser**, along with an extensive deployment of the globally validated Axient wireless systems from **Shure** were made available by team KG Movie.

Managing the intricacies of the audio setup was made possible by state-of-the-art mixing consoles from DiGiCo. At Front of House (FOH), a **DiGiCo** SD10 digital mixing console, complete with multiple SD Racks for enhanced I/O expansion, ensured that every nuance of the performance was captured and delivered with stunning precision; with a secondary SD10 console being made available to serve guest engineers when needed. Meanwhile, artist engineers at Monitor World were empowered by the next-generation DiGiCo Quantum 338 digital mixing console, which offered them unmatched control over every single nuance of the stage mix. Furthermore, team KG Movie were able to guarantee absolute redundancy, unmatched pristine audio quality and seamless communication between FOH and Monitor World, as they chose to integrate this entire setup through Optocore networking. And for additional versatility, the team also offered the famed S6L digital mixing console from **AVID** that was mostly used by several of the fan-favorite Indian performers that graced the stage.

PHILIPPINES

Resonance and Radiance

MLTR Dazzles Manila as Xstatic Event System Inc. crafts an awe-inspiring night for fans and artists alike



The Danish soft rock band Michael Learns to Rock (MLTR) has long been a beloved name in the global music scene, captivating audiences with their melodic hits and timeless ballads. Formed in 1988, the trio—Jascha Richter (vocals and keyboards), Mikkel Lentz (guitar), and Kåre Wanscher (drums)—has been a mainstay in the hearts of fans across Asia, where their music resonates deeply. Known for iconic tracks like “Take Me to Your Heart,” “Paint My Love,” and “Sleeping Child,” MLTR has sold over 11 million records worldwide and is celebrated for their unparalleled ability to craft poignant and heartfelt music. Their Manila concert on November 5 at the Mall of Asia Arena was a significant highlight

of their “Take Us To Your Heart Tour,” marking yet another milestone in their enduring legacy in the region.

This concert was particularly special for both the band and their Filipino fans. After years of adoration, this performance signified MLTR’s profound gratitude to one of their most loyal audiences. The concert not only celebrated their enduring connection with fans but also raised the bar for live music production in the region. Behind the dazzling success of the show was the meticulous planning and technical ingenuity of **Xstatic Event System Inc.**, a trusted name in live event production in Asia. Tasked with delivering a



performance that matched the band's legendary status, Xstatic left no stone unturned in curating an experience that was as sonically rich as it was visually captivating.

From the outset, the team at Xstatic approached the project with an uncompromising commitment to quality. Recognising the Mall of Asia Arena's expansive structure and unique acoustics, the team conducted a detailed venue analysis to design a bespoke solution that would meet the technical vision of the concert curators and the performance requirements of MLTR. Their objective was clear: to ensure every audience member, regardless of seating location, experienced the same immersive audio clarity and emotional impact that MLTR's music is known for.

The cornerstone of the event's audio production was a formidable **d&b audiotechnik** loudspeaker system. Xstatic deployed 36 units of the KSL line array modules as the main PA in a stereo configuration, complemented by 32 units of the V-series line array modules as outriggers for additional reinforcement. This strategic pairing of the KSL and V-series ensured a consistent sonic experience across the venue, with both systems sharing the same voicing characteristics

but tailored for different coverage and throw requirements. To provide a powerful low-frequency impact, the team incorporated 22 units of d&b audiotechnik's SL subwoofers, strategically positioned to deliver deep, resonant bass throughout the audience area.

Onstage, the artists—MLTR's Jascha Richter, Mikkel Lentz, and Kåre Wanscher—enjoyed a similarly exceptional audio experience, thanks to the deployment of d&b's M-series high-performance stage monitors. These monitors offered precise and dynamic sound reproduction, ensuring that the band could perform at their best. Additionally, Xstatic provided cutting-edge RF systems, including **Shure's** Axient Digital wireless microphones and PSM1000 in-ear monitoring systems, which guaranteed flawless signal transmission. Seamless backstage communication was facilitated through **Hollyland** M1 commsets, adding another layer of efficiency to the production.

Powering this sophisticated loudspeaker setup were multiple units of d&b audiotechnik's d80 and d20 amplifiers, known for their reliability and energy efficiency. The integration of these amplifiers ensured optimal performance across



all audio systems, delivering clarity and precision even at high output levels.

Beyond the auditory brilliance, Xstatic's technical expertise extended to the visual realm, where they created a mesmerising lighting design that elevated the concert experience. The stage was adorned with state-of-the-art lighting fixtures, including the renowned **Robert Juliat** Followspots, which ensured the band members remained the focal point of the visual spectacle. The intricate lighting displays were choreographed to complement MLTR's setlist, seamlessly transitioning between soft, evocative hues and dynamic bursts of colour that mirrored the energy of the music.

At the heart of the lighting setup was the grandMA3 full-size lighting console from **MA Lighting**, an industry-standard controller that offered unparalleled precision and versatility. The grandMA3 allowed Xstatic's lighting team to execute complex lighting cues effortlessly, synchronising the visual elements with the music to create an enchanting atmosphere that captivated the audience.

The combined efforts of Xstatic's audio and lighting teams culminated in a concert experience that was nothing short of extraordinary. Fans

were treated to a flawless blend of sonic and visual artistry, with every note and every beam of light meticulously crafted to enhance the emotional resonance of MLTR's performance. From the heart-stirring ballads to the upbeat anthems, the production quality ensured that each song was an unforgettable moment.

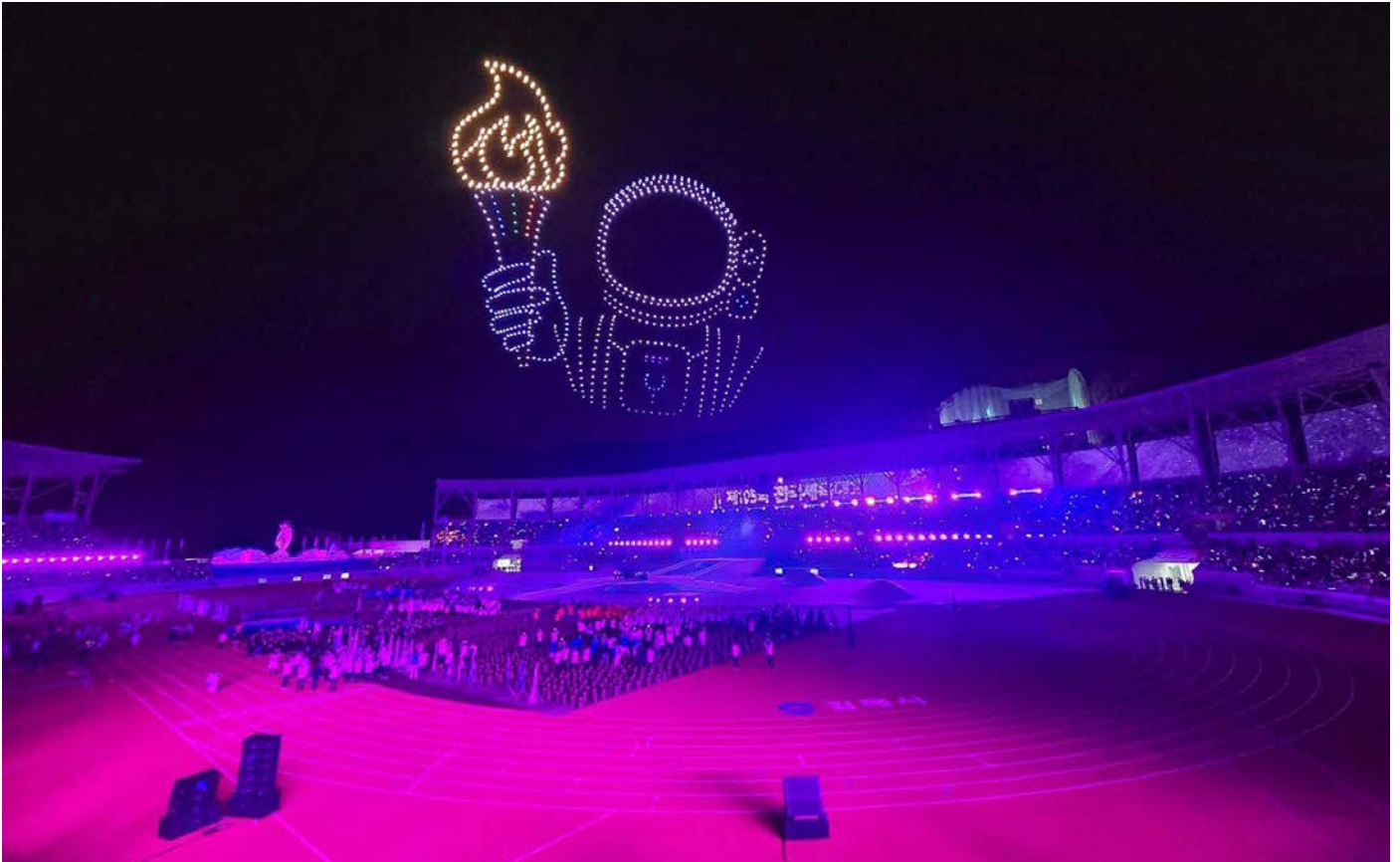
For MLTR, the Manila concert was a reaffirmation of their enduring popularity and the universal appeal of their music. For Xstatic Event System Inc, it was a testament to their capability to deliver world-class productions that set new benchmarks in the live entertainment industry. The success of the concert underscored the importance of technical excellence in creating memorable live experiences, a standard that Xstatic continues to uphold in every project they undertake.

As the final notes of "That's Why (You Go Away)" echoed through the Mall of Asia Arena, the audience erupted in applause, a fitting end to an evening that celebrated the magic of live music and the unbreakable bond between MLTR and their fans. The concert was not just a performance; it was a shared journey of nostalgia, emotion, and joy—an experience that will undoubtedly be cherished by all who attended.

SOUTH KOREA

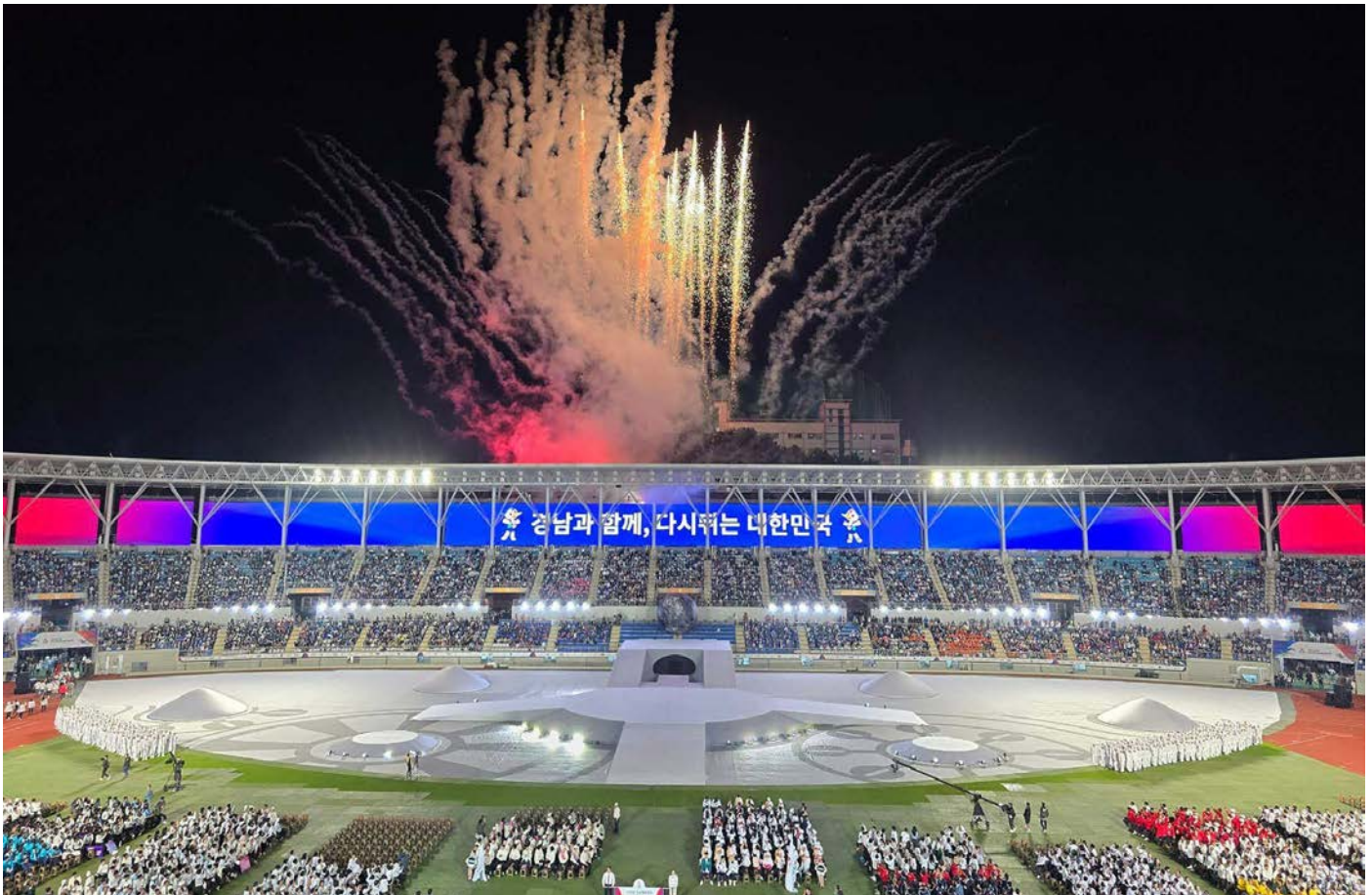
Space, Sport & Sound Harmonise

The 105th Korean National Sports Festival's opening ceremony celebrates culture, competition & audio brilliance from JBL + Blue Noise



The 105th Korean National Sports Festival 2024 commenced in grand style with an opening ceremony that captured the energy and excitement of a nation united in competition and culture. Held at the Gimhae Sports Complex in Gimhae, South Korea, the event was an impressive celebration of Gyeongnam's cultural heritage and its aspirations in aerospace technology. Titled "From Space to Space, the Flame of Harmony," the ceremony illuminated the region's past, present, and future through a blend of captivating performances, cutting-edge technology, and a showcase of athletic prowess.

This year, the ceremony began with a breathtaking air show by the Republic of Korea Air Force's aerobatic team, the Black Eagles, setting the tone for an unforgettable evening. This was followed by the entrance of the athletes, representing the spirit of competition and unity. The main event unfolded in a large-scale performance divided into five distinct sections, each narrating the host province's 50,000-year history through a compelling combination of video projections, percussion music, and dance. From the dawn of human civilisation to Gyeongnam's ambitions in aerospace and future



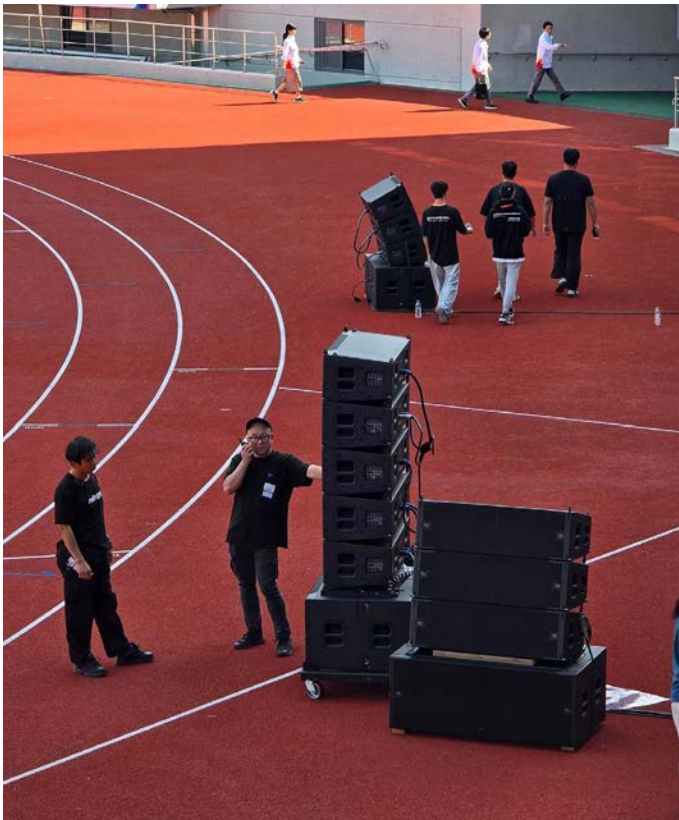
industries, the performance seamlessly wove together the past and the present. Adding to the grandeur were musical performances by celebrated artists Jang Yoon-jeong, Kim Da-hyun, and Harmonize, who captivated the audience with their talent and charm.

A defining highlight of the event was its exceptional production quality, achieved through a comprehensive **JBL Professional** loudspeaker system designed and deployed by **Blue Noise** – a renowned solutions provider known for its expertise in delivering high-impact sound experiences. And with a focus on creating an immersive sonic environment, the audio team rose to the challenge of translating the organisers' ambitious vision into reality.

The process began with an extensive survey of the venue, taking into consideration the unique acoustical dynamics of the Gimhae

Sports Complex and the scale of the audience. Armed with this insight, the team devised a meticulously detailed plan to implement a robust live sound architecture capable of delivering an awe-inspiring experience to every attendee. Central to their success was the deployment of a comprehensive loudspeaker system from JBL Professional, a name synonymous with high-performance audio solutions.

At the heart of the setup were 48 units of JBL's VTX A12 line array modules, complemented by 24 units of the compact yet powerful VTX A8 line array modules; which together were paired with 16 VTX B28 dual 18-inch subwoofers, creating a formidable main PA solution that seamlessly covered the stadium-style seating area. The team employed a strategic distribution approach, positioning 'sets' of the A12 / A8 and B28s around the perimeter of the ground; wherein each VTX A12 and A8 module was meticulously angled to



provide unparalleled projection and linearity, guaranteeing that every audience member, regardless of seating position, enjoyed a pristine audio experience. The VTX B28 subwoofers further elevated the soundscape with their thunderous low-frequency performance. Deployed with pinpoint precision, they ensured impactful bass response that resonated powerfully across the entire venue. Together, the VTX line arrays and subwoofers emphatically delivered a cohesive and immersive sound

environment that amplified the emotional and sensory impact of the ceremony.

To refine the deployment and achieve optimal results, it is believed that the team utilised JBL's advanced acoustic simulation software, which enabled the engineers to model the venue's acoustics and fine-tune the system configuration for maximum effectiveness. By simulating the acoustic behaviour of the loudspeakers within the stadium, the team pre-emptively addressed potential challenges and ensured flawless sound quality during the live event; resulting in an audio experience that was not only powerful but also remarkably clear and consistent.

The collaboration between Blue Noise and JBL Professional exemplified the transformative potential of technology and expertise in large-scale productions. The audio team's dedication to precision and excellence was evident in every detail, from the initial planning stages to the final execution. Their efforts ensured that the audience could fully immerse themselves in the performances, whether it was the subtle nuances of a musical act or the grandeur of the large-scale historical re-enactments.

PRG Middle East

AUSTRALIA

Big Skies, Bigger Memories

Brisbane Sound Group elevates Queensland's iconic Big Skies Festival 2024 with cutting-edge tech to transform Jimbour House into a festival paradise



The Big Skies Festival 2024 made a spectacular return this year, coinciding with Queensland's King's Birthday Long Weekend. Hosted at the iconic Jimbour House amidst the breathtaking Western Downs region of Queensland, Australia, this three-day extravaganza drew thousands of visitors from across the nation. Featuring a star-studded lineup that included The Screaming Jets, Killing Heidi, Kaylee Bell, and Brad Cox alongside a wealth of local talent, the festival delivered an unforgettable experience against a backdrop of rolling landscapes and historical charm.

This year's event was elevated to new heights, thanks in no small part to **Brisbane Sound Group** (BSG), a stalwart in Australia's live event technical solutions scene. BSG, long associated with Big

Skies Festival, went above and beyond to deliver a comprehensive package of sound, lighting, and vision technologies. With a commitment to ensuring a fully immersive sensory experience for all attendees, BSG's meticulous planning and technical prowess brought the festival's ambitious vision to life.

Sonic Excellence with L-Acoustics and Allen & Heath

Central to BSG's technical setup was the deployment of the **L-Acoustics** K3 rig, a world-class sound system renowned for its impeccable clarity and coverage. The main PA system featured 24 units of L-Acoustics K3 line array modules arranged in a stereo configuration,



with 12 modules flanking either side of the performance stage. This configuration ensured that festival ground by and large was enveloped in crystal-clear sound and a consistent auditory experience to attendees.

To complement the main PA, A15 loudspeakers were deployed as front-fill and out-fill reinforcements. The consistent voicing characteristics of these modules allowed BSG to achieve seamless sonic coverage across the vast audience area while tailoring the sound impact to the venue's unique dynamics.

On the other hand, comprehensive low-end reinforcement was delivered through 16 units of the L-Acoustics KS28 high-performance subwoofers, ground-stacked strategically to provide deep, chest-thumping bass.

Powering and managing the loudspeaker system was L-Acoustics' LA-RAK II AVB amplified controllers, which ensured reliable power delivery and precise control – enabling the loudspeaker

system to operate at peak performance throughout the festival.

Mixing duties were handled with precision using **Allen & Heath's** D-Live series consoles, known for their robust processing capabilities and user-friendly interfaces, which catered to the diverse technical requirements of the festival's varied performances.

Illuminating the Stage with Cutting-Edge Lighting

Lighting played an equally pivotal role in creating the festival's vibrant atmosphere, with BSG deploying an impressive array of world-class fixtures. The lighting rig featured **Ayrton** Rivale fixtures, renowned for their powerful output and dynamic effects, alongside **Martin Professional** MAC Aura PXLs, which delivered rich, saturated colours and smooth transitions. **ShowPRO** R3s added an extra dimension to the visual experience with their dynamic range of effects and versatility.

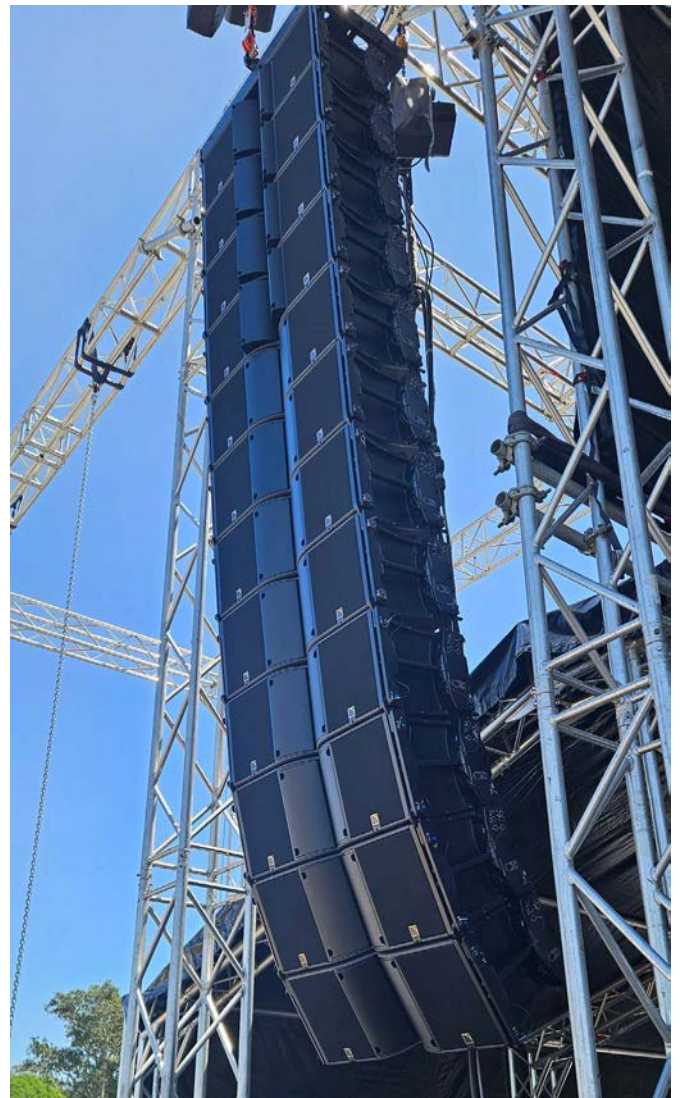


These lighting fixtures were seamlessly controlled using **MA Lighting International's** grandMA3 Light consoles, which offered precise and intuitive control over the complex lighting setup. The result was a series of visually stunning displays that perfectly complemented the energy and emotion of each performance, enhancing the overall audience experience.

Visual Wonders with High-Performance Displays

To ensure that the action on stage was accessible to all, BSG deployed an impressive display setup featuring **Unilumin** URM3 high-performance displays as IMAG screens, which provided sharp, vibrant visuals and ensured that every attendee could enjoy a front-row experience, even from a distance. Complementing the IMAGs perfectly were **VuePix** InfiledAirmesh screens, which were utilised as artist banners, as they added a dynamic visual element that highlighted the performers and enhanced the stage design.

The integration of these high-quality display solutions allowed the audience to connect with the performances on a deeper level, blending





seamlessly with the sound and lighting elements to create a cohesive and immersive festival environment.

A Meticulously Orchestrated Technical Symphony

BSG's success at the Big Skies Festival 2024 was no accident. The team conducted a thorough survey of the venue, taking into account its physical dynamics and the specific requirements of the festival's lineup. Armed with this insight, they devised a meticulously crafted plan to deliver a technically flawless experience.

The decision to utilise L-Acoustics' K3 and A15 systems was driven by their unparalleled ability to deliver consistent voicing across different modules while offering flexibility in coverage and throw. This, combined with the precision and reliability of the Allen & Heath D-Live consoles, ensured that the diverse performances—from the powerful rock anthems of The Screaming Jets to the soulful melodies of Kaylee Bell—were delivered with unmatched clarity and impact.

The lighting and visual elements were equally well-considered. Ayrton Rivaes and Martin Professional MAC Aura PXLs were chosen for

their ability to create dynamic and engaging lighting displays, while the grandMA3 Light consoles provided the control and versatility needed to adapt to the varied performances. The use of Unilumin URM3 and VuePix Infiled Airmesh screens ensured that every visual detail was presented with stunning clarity, bringing the performances to life for the audience.

A Testament to Technical Excellence

The Big Skies Festival 2024 was a resounding success, not only as a celebration of music and culture but also as a showcase of technical innovation and expertise. BSG's commitment to excellence was evident in every aspect of their work, from the precision of their sound setup to the creativity of their lighting designs and the clarity of their visual displays.

For the thousands of attendees who gathered at Jimbour House, the festival was more than just an event; it was an immersive experience that engaged all the senses. As the sun set over the Western Downs and the music echoed across the landscape, the Big Skies Festival 2024 proved to be a triumph of artistry, technology, and community spirit.

SAUDI ARABIA

Throwing The Ultimate Knockout

HiLights' cutting-edge AVL deployment powers spectacular Latino Night at Riyadh Season 2024



Riyadh Season 2024 brought an unforgettable spectacle with Latino Night, blending vibrant Latin culture with the electrifying energy of world-class boxing. Tasked with transforming "The Venue," a newly introduced zone for the event, Egypt-based **HiLights Group** joined forces with Sela and Proline International to deliver a seamless and captivating AVL experience. Despite the tight 48-hour window, the production team turned the space into an immersive entertainment hub, equipped with cutting-edge technology from industry-leading brands like Ayrtan, WatchPax, DiGiCo, and L-Acoustics.

To ensure impeccable audio quality, the production team utilised **L-Acoustics'** renowned

K2 line array speakers, paired with suspended KS28 subwoofers and Kara cabinets for consistent and balanced sound coverage across the venue. A **DiGiCo** Quantum 5 console handled the intricate mixing requirements, supported by 85 units of L-Acoustics LA12X amplifiers for robust sound reinforcement. The system relied on an **Optocore** X6R for AES signal backup, while **DirectOut** Prodigy.MP leveraged the AVB protocol to transmit audio signals seamlessly to the amplifiers.

Artists benefited from crystal-clear audio courtesy of **Shure's** Axient Digital Wireless Microphone system, fitted with SM58 capsules for superior sound capture. Additionally, 10 channels of



uninterrupted in-ear monitoring were delivered through Shure's PSM 1000 system, ensuring pristine audio precision for live performances.

Equally pivotal role in creating the evening's enthralling atmosphere, the elaborate lighting deployment for the event featured an extensive range of cutting-edge fixtures enhancing the visual narrative. **Vari-Lite's** VL2600 Profile, VL3600 Profile, VLZ Profile, and VLZ Wash fixtures were instrumental in delivering versatile effects. **Ayrton's** innovative Cobra, Domino LT, Domino S, and Argo 6 FX fixtures further enriched the design, alongside **Claypaky's** HY B-Eye K15 lights, renowned for their vibrant colours and beam-shaping capabilities.

Control was entrusted to **MA Lighting's** grandMA3 series, including the grandMA3 Full Size and grandMA3 Light consoles, ensuring precise programming and seamless execution of the dynamic lighting design.

The video setup was equally impressive, featuring 800m² of high-resolution LED screens, which served as the visual centrepiece of the venue. To complement this, 20 units of **Barco** UDX-4K40 projectors delivered stunning imagery, while the Barco E2 Event Master processor managed content switching with precision.

Dataton's WatchPax 60 media server provided exceptional video processing capabilities, further supported by 4 units of **Novastar** processors to ensure flawless and immersive visuals for both the live audience and broadcast viewers.

The HiLights Group's ability to deliver such a sophisticated AVL deployment within an exceptionally short timeframe exemplifies their expertise and adaptability. Latino Night at Riyadh Season 2024 not only celebrated Latin culture but also set new benchmarks for event production, leaving a lasting impression on audiences both on-site and worldwide.

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When the “why” is clear, the “how” becomes intuitive.

When knowledge increases,
opportunities will follow.



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