

# ETA ENTERTAINMENT TECHNOLOGY ASIA

For The Technical And Production Professionals in Asia

## FRIENDS OF SHIVA EXUDES IMPRESSIVE TECHNICAL PROWESS AT ZOMALAND KOLKATA

APRIL 2023

### NEWS:

PL+S Performance + Production  
Hub Returns with Interactive  
Workshops and Live Acts

### ENNOVATION:

Cameo Presents the OTOS SP6 and  
OTOS B5

### INSIGHT:

PLUGGED-IN - "Stability and  
Redundancy are Irreplaceable at  
Live Events"

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Through the evolutionary course of live event technologies, cables and connectors have consistently played a key role in augmenting massive sound systems, intricate lighting rigs, and complex video-display systems; and as the industry has continued to grow, so too have the demands placed on these cables and connectors.

Kai Reiter, product manager ProAVM of KLOTZ AIS – one of the world's leading manufacturers for industry standard cables used in live events of all scales and magnitudes shares his thoughts exploring the future of cables and connectors in the live event industry. Also as PALM Expo enters its 21st year, the show promises to acquaint its visitors with avant-garde technological innovations from the world of pro audio, lighting, and rigging. The exhibition will be held from 25-27 May 2023 at Bombay Exhibition Centre (BEC), Mumbai.

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To subscribe to Entertainment Technology Asia click here: <https://www.e-techasia.com/subscribe>

PUBLISHED BY



71, Bukit Batok Crescent, #06-13 Prestige Centre,  
Singapore 658071. Tel: (65) 6316 2716  
[www.spinworkz.com](http://www.spinworkz.com)

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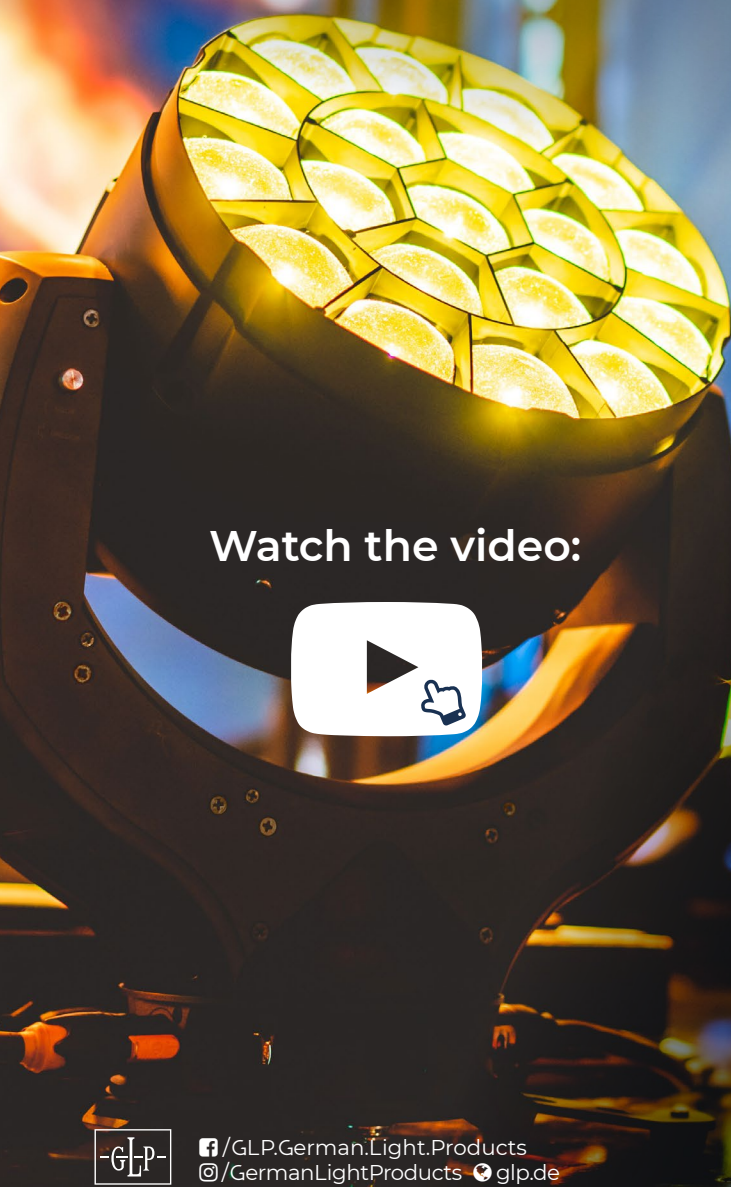
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## NEXO Takes Professional Audio Services to the Next Level



**AUSTRALIA:** Professional Audio Services (PAS) has brought a lively punch to its aural arsenal with the recent addition of NEXO technology.

Operating out of Wodonga, Victoria, the pro AV production company offers a host of services including the consultation, design and installation of comprehensive sound solutions. Primarily servicing corporate events, as well as a variety of live music scenarios, PAS is defined not only by its dedication to quality entertainment experiences but also by its dynamic father-son duo: managing director Tony Boon and lighting & technology specialist Adam Boon.

Having carved a reputation for itself as a provider of the very best in quality audio for esteemed theatre shows, council events, concerts and more, PAS sought to elevate its production capabilities further by streamlining its systems catalogue - pivoting to NEXO's synergistic ecosystem of point source offerings.

"We were reorganising our business, as we had lots of different speaker systems and older things from separate places," recounted Tony. "Ultimately, we decided to go with a framework that operates together more seamlessly. From cables to amps and speakers, we now have a variety of NEXO equipment to call on, all from the same family."

Eager to road-test the new technology by the end of 2022, PAS recently assisted the community of Wodonga with two well-reviewed events: Borderville's Circus in Junction Square and the city's beloved Wodonga Brass Carols by Candlelight.

Breaking down the specified setup for each venue, Adam explained: "Junction Place was a circus gig that used 4 x P15+ cabinets and 4 x GEO MSUB18s. We also used a pair of P10+'s to fill where the tree foliage ate up our HF. Wodonga Brass Christmas Carols was 6 x GEO M10 modules per side, 4 x GEO MSUB15's and 6 x GEO MSUB18s in an array that was designed in NS-1 for even



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coverage across the massive audience space, and to minimise the onstage bass build-up. All console-to-amp connections were via AES3, and parameter control was all networked. We configured, tested, and adjusted the system with NEXO's NeMo iPad app."

The French manufacturer's consistent sonic signature ensures that individual NEXO product lines are highly cross-compatible and able to be mixed and matched with ease. All of PAS' modules were driven by NXAMPMK2 technology, NEXO's comprehensive power and processing solution. "The concentric element of the P+ cabinets is very attractive to me, as I'm a big believer in the coaxial configuration to get coverage and pattern control," Tony enthused. "Plus, the networking capabilities, and being smaller and lightweight while sounding fantastic, is a huge benefit."

In addition to employing the P+ and GEO M Series hardware, the incorporation of NS-1, NEXO's free simulation software, ensured efficient system configuration for uniform coverage of each space. "Both gigs were modelled with NS-1, which has been awesome and has allowed us to better understand how things will work best ahead of the actual event," noted Adam. "In all cases where we have used NS-1 the results have far exceeded our - and the clients' - expectations."

As informed by PAS, Wodonga Brass Carols by Candlelight turned out to be an extraordinarily large event for its purview, and a perfect opportunity to showcase the unparalleled capabilities of the NEXO system architecture. With an impromptu increase in SPL easily handled by the setup, the carollers were able to sing out with flawless clarity across an enormous audience, with Tony exclaiming "the coverage was phenomenal and well exceeded what we were promised [of the capability]."

On his recent experience with their new P+ and GEO M systems, Tony summarised: "Everything is excellent to work with. The combination of quality loudspeakers and NS-1 prediction is incredible- you can tell exactly what is going to happen before you even load a box into your vehicle. I also really like the new sound signature- it's easy to work with, the performance-to-weight ratio is great, and the coverage is just incredible. It's a whole different world!"

**NEXO**



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## CTME Invests in IP-rated Elation Proteus and KL Panel



L-R: Jonas Stenvinkel (Elation Professional), Sam Connolly and Andy Reardon (CTME)

**MIDDLE EAST:** Creative Technology Middle East (CTME) has invested in [Elation Professional's](#) Proteus series of automated IP65 lights, along with studio-optimized IP-rated KL Panel softlights. The Middle East's reputation for producing large-scale, visually stunning events continues to grow and Creative Technology plays an important role in making those happen. The company services a wide range of market sectors from entertainment to corporate, as well as exhibitions, broadcast and high-profile sporting events.

The purchase includes the Proteus Excalibur sky beam moving head as well as the Proteus Maximus LED moving head, both high-power luminaires routinely used on large-scale productions and outdoor spectacles.

The Excalibur is the "brightest IP65 full-featured beam fixture ever created". Its beam light generates up to 335,000 lux at 15 m, in combination with a 260 mm lens and 0.8° beam, and can compete with xenon searchlights and sky trackers. The Maximus is a 50,000-lumen profile/beam/wash LED moving head that has earned a reputation as a rider-friendly, industry-standard luminaire. Both luminaires feature all-weather

Proteus protection and will find service on the diverse range of spectacular events across the Middle East region.

Sam Connolly, head of Lighting at CTME was extremely excited to have the new fixtures as part of the company's vast range of lighting stock: "Elation is a ground-breaking brand creating innovative and versatile products like the Proteus series and KL Panel XL IP. The investment we have made is exceptional to the Middle East, as we can now offer our clients first-class exclusive lighting packages for all their spectacular events across the GCC."

Additionally, CTME has invested in Elation's versatile KL Panel XL IP, a full-colour spectrum LED softlight aimed for use in broadcast and film settings. CTME worked closely with Jean Pierre de Vernon from Venutech LLC, Elation's exclusive distributor in the Middle East, to procure the new lighting gear.

CTME's managing director Andy Reardon added, "We pride ourselves on providing the very best full-service solutions to our clients, which is why we continue to invest in event technology in the region. Having made this investment, we can continue to be a one-stop solution partner for our clients, ensuring high-quality products, a world-class bespoke service, and provide an elite team. We are delighted to have expanded our lighting stock and thrilled that we can offer this service to meet small and large event requirements across the Middle East."

To meet the increasing demand for high-quality lighting solutions at indoor and outdoor broadcast events in the region, CTME has also invested in the IP65-rated KL Panel XL IP softlight. A versatile LED softlight that boasts an RGBW + Lime + Cyan LED array while delivering bright, full-colour washes and beautifully soft white lighting up to 40,000 field lumens. With a range of useful design features, it is ideal for key, fill, and backlight applications, providing exceptional lighting quality that can be easily adjusted to meet the needs of each event.

[CTME](#)





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## Ganpati Sound Jaipur Adds New System from D.A.S Audio



as concerts, events, and conferences; and with this strategic investment, we have solidified our position as one of the most innovative and forward-thinking providers of professional sound and lighting solutions in the industry. Our clients rely on us to deliver exceptional sound quality and performance, and the DAS EVENT 212 and UX218 loudspeakers will help us to exceed their expectations.”

The DAS EVENT-212A is a powered, 3-way line array which employs two DAS 12” loudspeakers in a dual-band configuration where each speaker operates in a specific frequency range. The brand asserts that it is designed to provide exceptional sound, steadfast reliability and value beyond comparison. On the other hand, the UX218 is a high-performance subwoofer for external amplification, that uses top-level components and the latest in power amplification technologies. Expressing his thoughts on Ganpati Sound’s purchase of the DAS EVENT system, Mr Eshdeep Bhasin, Director of Stagemix Technologies LLP exclaims, “We are excited to partner with Ganpati Sound Enterprises to bring our latest loudspeaker systems to their customers in Jaipur and beyond. DAS Audio products are designed to meet the demands of the most challenging sound reinforcement applications, and we are confident that Ganpati Sound will be able to deliver exceptional results with the DAS EVENT 212 and UX218.”

**INDIA:** Ganpati Sound Enterprises, a leading supplier of professional sound and lighting products, has recently acquired the DAS EVENT 212 and UX218 loudspeakers as part of their latest investments; with the purchase being facilitated by Stagemix Technologies LLP, the official distribution partners of DAS Audio products in India.

Commenting about the purchase, Mr Banwari Lal Sharma, of Ganpati Sound Enterprises asserts “We are thrilled to be investing in the latest technology from DAS Audio. The DAS EVENT 212 and UX218 loudspeakers is renowned for reliable performance, superb sound quality, and user-friendliness across genres such

[Ganpati Sound](#)

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## Ayrton Finds a New Exclusive Distributor in IMS



L-R: Adrian Muchtar, Irvana Theo, Yulius Dwiputra, Ronaldy Wianto

**INDONESIA:** Ayrton has announced the appointment of PT Inti Megah Swara (IMS) as its new, exclusive distributor for Indonesia. Effective immediately, IMS will be responsible for the sales and rental of the entire [Ayrton](#) product range in Indonesia.

Established in 2000, IMS is the official distributor of many international audio brands, with a strong retail presence of approximately 40 Desound and JBL stores located across Indonesia. The company also has branch offices in Bandung, Surabaya, Makassar, Manado, Malang and Bali.

2022 saw a strategic decision from IMS to expand into professional lighting to better facilitate its customers in all aspects of production. Since then, IMS has made both professional audio and professional lighting the main focuses of its business. This, in addition to its retail lines, enables the team to cater for all professional audio and lighting needs in a wide variety of settings.

“There is a rapidly increasing market for professional lighting products in houses of worship, hospitality venues like cafés and restaurants, and entertainment industries

including ballrooms, function halls, theme parks, theatres, clubs and television stations,” said IMS’s Irvana Theo.

“In addition to this, we have identified a growing demand in Indonesia’s professional lighting market, especially with the post-pandemic boom in events and concerts. We believe that Ayrton’s innovative product design and wide range of lighting solutions will satisfy the market needs across all the variety of installations and projects we handle in Indonesia. We are excited to welcome Ayrton to our IMS family and look forward to working closely with the Ayrton team to maximise Ayrton’s market penetration in Indonesia and expand both Ayrton and IMS business.”

Ayrton’s Vijay Thaygarajoo is eager to welcome IMS Indonesia to the global Ayrton family, “We are delighted to have them as the exclusive Ayrton distributor for Indonesia. We are looking forward to working together to strengthen our capacity in this ever-growing market in South-East Asia.”

[IMS](#)



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## *Pro Audiovisual & Entertainment Lighting Technologies Exhibition and Conference for the Growing Southeast Asia Markets*

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PIFA2023 is a dedicated business platform crafted for AVL suppliers and specialists to harness their knowledge and technologies to deliver real world application showcases. The event will feature a Centre Stage and Classroom to bring together more than 20 industry experts at the frontline of the AVL industry where interested delegates can learn and engage our speakers.

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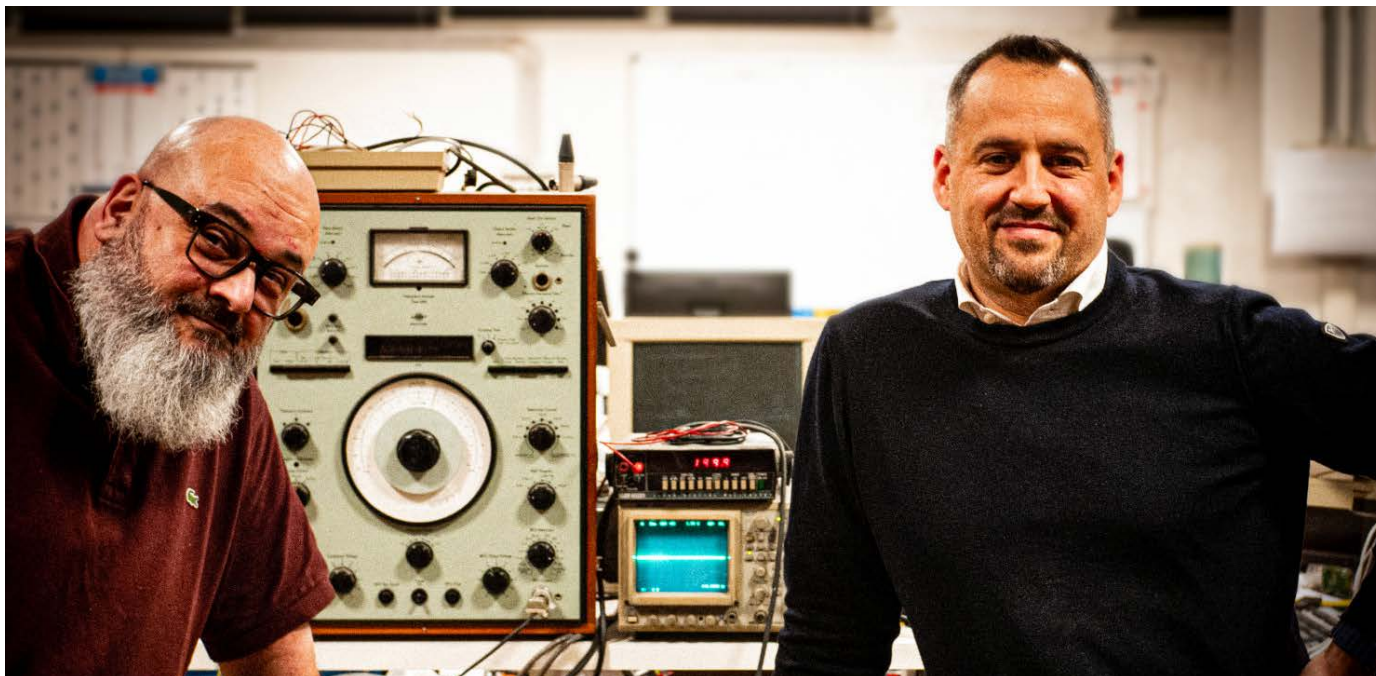
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## Outline Says Thank You to Retired CEO Biffi with Appointment of New Management Team



*Daniele Tebaldi and Fernando Rey Méndez*

**GLOBAL:** To celebrate its 50th anniversary since incorporation, Outline's restructuring behind the scenes has resulted in the appointment of a new management team. The new organisation stems from the retirement of Giorgio Biffi from his role of CEO, which he carried in addition to his head of sales function, since the passing of founder Guido Noselli, whom he joined in 1976.

"Giorgio has undoubtedly driven Outline's success on a worldwide scale during his 47-year-long tenure – which is why it wasn't exactly easy to find a suitable candidate to replace him", said Michele Noselli, majority shareholding partner together with his brother Stefano. "It explains how we came to appoint not one, but two younger guys, as a team, in order to keep up with Giorgio's own pace, willing to grow Outline to lead tomorrow's technological challenge," said Stefano.

The director of sales position has been appointed to Fernando Rey Méndez, the insider specialist who joined Outline as sales engineer at the end of 2016, and later added to his titles that of Outline Newton's business development manager, and that of sales manager for

Outline's Test & Measurement Instruments division. A native of Buenos Aires but a resident of Italy since his early teens, Fernando forged his professional sound engineering skills with the Italian musical theatre company Compagnia della Rancia. Shortly after, he served as a startup- and commissioning engineer in the integration market for naval specialists Wärtsilä, Seastema and Videlio-HMS.

Industry veteran Daniele Tebaldi will now lead Outline as its general manager, following the collaboration that started between them at the beginning of 2022. Daniele cut his teeth as a sound engineer already in the mid-'80s, developing a keen ear for jazz and classical music after touring at FOH mix for Paolo Conte. His professional career includes being a technical journalist and copywriter, before lecturing in audio engineering classes, followed by a 25-year stint at the helm of German manufacturer d&b audiotechnik's Italian subsidiary.

"There's a great opportunity beyond, and a hard lesson to be learned from, the changes that the world went through, in the aftermath of the 2020 COVID pandemic", continued Stefano Noselli. "My senior brother Michele



and myself reacted with a strong determination to pursue change in our business, which has to date pretty much remained the same family-owned, family-driven small company that our late father Guido started in 1973.” “Celebrating Outline’s 50th anniversary this year”, concluded Michele Noselli, “seems like the perfect occasion to up the ante, by renewing our commitment to a brighter, stronger Outline for the years to come

– turning change into a most powerful advocate. This isn’t a farewell to Giorgio, as he remains a shareholding partner within Outline’s board, though nonetheless, this feels like the right picture, in which to frame our ‘thank you, Giorgio!’ for his relentless drive of Outline’s business”.

[Outline](#)

## Industry Expert Named Vice President Global Marketing of d&b audio



**GLOBAL:** d&b audiotechnik has appointed Mike Case as vice president of Global Marketing. The new role will also include continued responsibility for Segment (Market) Development and Artist Relations. Case, who has over 30 years of experience in the industry, brings strong business, brand and product knowledge to this newly-defined role. Previously, as APAC Territory Manager, he set up and ran the subsidiary in Singapore, successfully expanding the d&b footprint in the region.

“Mike is the perfect fit for this role,” said Stephan Greiner, chief operating officer at d&b audiotechnik. “His comprehensive knowledge of our industry, our technologies and experience with customers and users of our system solutions, along with his unconventional and creative approach, will support brand development and our sales enablement in new and exciting ways. I’m

very pleased that he is taking over this new role and wish him and his entire team every success.”

Mike Case is incredibly excited to be taking on this position which has such a legacy in terms of d&b’s famous take on brand and marketing, “Here at d&b I know we are looking forward to a bright and innovative future. With the technology and creative trends that are reverberating through the music and entertainment industry there surely cannot be a more exciting time to be involved with this company, its people and its products. Alongside this, leading a great team of talented and dedicated individuals whom I look forward to helping deliver yet more cool, passionate, quirky and visionary messaging to our global community of users and customers.”

[d&b audiotechnik](#)

## Hexagon Lights Up Formula 1 Night Race with Eco-friendly Ayrton Fixtures



*Hexagon Solution Pte Ltd*

**SINGAPORE:** The 'City Light-Up' event was a celebration of light held alongside the Singapore Airlines' Singapore Grand Prix, which culminated in the Formula One night race around The Marina Bay Street Circuit in front of a capacity crowd of 300,000 spectators.

As part of this prestigious event, the Internal System and Technical Team at Hexagon Solution Pte Ltd was asked to provide lighting solutions for one of the City Light-Up locations, the beautiful - and huge - conservatory buildings located at the Gardens by the Bay. They chose to use 20 x Ayrton Domino LT fixtures which were supplied by Ayrton's exclusive distributor for Singapore, [Total Solution Marketing \(TSM\)](#)

Adrian Goh, group managing director of Hexagon, commented: "We had decided to light the conservatories with lighting fixtures rigged on floor-standing truss to illuminate the architectural structure and framework of the buildings. The selected lighting fixtures needed to have enough throw to hit the top of the curved framework structure and at the same time have a beam angle wide enough to cover 2 to 3 structural frames at 5m to 8m apart from a very short distance. The fixtures also

needed to operate in all weathers and conditions, rain or shine, with minimum protection, so reducing the footprint of the installation. Domino's IP65 rating, as well as its versatile beam angle, was therefore extremely important."

Domino LT fixtures were also selected for illuminating a second location, that of the top dome of the National Gallery Singapore. Four fixtures were used to light the dome from two separate locations to ensure complete, even coverage of the front 180° of the dome's surface.

Goh added, "Due to a number of restrictions in installing these lights close to the venue, the two installation sites were located 500m away from the illuminated surface and 400m apart. Domino LT's long-throw capability was therefore also of paramount importance. Domino LT's wide range of colour selection and mixing were further important considerations that influenced our selection, in that they allowed us to effectively blend the top dome structure with the remaining part of the building's lighting."

Hexagon is a company that values environmentally sustainable products and projects and holds these



tenets very close in its means of operation. "This is our first time using Ayrton fixtures which we chose because they met our requirement for IP65 rating, long throw function, strong beam output, wide beam angle and good colour mixing," said Goh. "However, we also noted that Ayrton products are built using environmentally sustainable practices, which is a very important factor in our procurement decisions."

Hexogon was very satisfied with its choice of Domino LT and felt they were "perfect" for their busy and varied schedule. "We have used Domino LT in five installations within the last two months, in very different conditions and with varying site requirements," concluded Mr Goh. "It's important for us to have a lighting fixture with a high degree of flexibility to cope with these unpredictable changes. They need a build quality that is tough enough to withstand various extreme conditions, and a wide range of functions to serve many purposes, so we don't have to worry about too many different types of fixtures. And because Hexogon is involved in so many outdoor installations, the IP rating, and strong, long throw visible beams are all very important to us."

Goh is also looking forward to using more Ayrton fixtures in future installations, "Ayrton's Domino LT fixtures have entirely met our requirements and we would like to expand our fleet of them as more projects come along. Furthermore, we have worked with Total Solution for many years and we have always received exceptionally prompt and efficient customer service."

"We are very thankful for the trust from Hexogon in investing and choosing the Ayrton Domino LT for their various outdoor events," commented TSM's managing director, Glenn Wong. "It's exciting to see the Domino LT used in many of their demanding projects and delivering the high-performance levels expected by Hexogon."

Ayrton

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## Raipur's Mukund Radio Invests in DiGiCo SD10 with D2 Rack



**INDIA:** A DiGiCo SD10 paired with a D2 rack have become the latest technologies added to Raipur based rental company Mukund Radio's inventory, following the purchase from Hi-Tech Audio & Image – the official distributors of DiGiCo products in India. The rental company provides services ranging from live sound, DJ systems and stage lighting to conference setups, and has previously supported performances from a wide variety of Indian artists and musicians.

Mukund Radio's director Sameer Mohdiwale affirms that the company works across different applications and SD10 proved to be the right addition to their existing stock, as he cited the medium frame console benefits from Stealth Digital Processing and, in conjunction with the new D2 Rack, can run at 96kHz sample rate. He also states that the D2-Rack's ability to provide 48 mic/line inputs and 32 outputs, all working at 24bit/96kHz, coupled with the ability to connect the D2 Rack to the

console via BNC Madi, meant that the company would be equipped with the perfect amount of flexibility and expansion to commission any kind of event with great ease.

Sameer affirms that in addition to an attractive price-point, the console's compact and light-weight footprint proved to be another positive influence on the purchase decision as it allows the company to offer more value even to events that run in smaller venues. Furthermore, he explains that the SD10 and D2 Rack combination provides a very important solution of splitting input channels and have independent head amp gain control for FOH and MOH application without using an analogue split snake system, which greatly improves logistics, setup and overall ease of use during an event.

**Mukund Radi**

**Hi-Tech Audio & Image**



## Out Board Appoints PRO LAB as TiMax Distribution Partner



*New distributor, PRO LAB's head of the Audio Department, Pavel Shemiakin with Out Board director, Dave Haydon.*

**MIDDLE EAST:** UK immersive audio pioneers, Out Board, have appointed PRO LAB as the exclusive distribution partner for TiMax SoundHub, TiMax Tracker D4 and the full range of TiMax solutions in the Middle East. With a strong and extensive reach throughout the GCC and MENA regions, PRO LAB is an established name distinguished for its high-quality pro-audio-visual and stage equipment product portfolio.

The new distribution partnership addresses the dramatic increase in demand for TiMax immersive audio solutions in the region. As a versatile and autonomous spatialisation engine, designed to work effectively with any loudspeaker on the market, TiMax SoundHub was a “logical addition” to the PRO LAB’s product portfolio. TiMax offers PRO LAB’s extensive network the freedom to tailor system solutions according to their individual technical and budgetary requirements.

PRO LAB has invested in demonstration stock and the company’s newly constructed experience centre, located in Dubai, will be equipped with TiMax SoundHub, TiMax Tracker D4 and the full range of TiMax solutions. Customers will be able to experience the power and versatility of TiMax and receive training to successfully implement the products into their projects,

shows and installations.

Driving the active promotion of TiMax to the region’s system integrators, system engineers, sound designers, and other creative professionals, will be the recently appointed head of the Audio Department, Pavel Shemiakin. A lecturer on immersive audio technology and a previous brand manager for TiMax, Pavel brings significant experience in the TiMax range of solutions.

Rami Haber, CEO of PRO LAB, commented, “We are thrilled to be partnering with TiMax, a brand that is at the forefront of immersive audio technology. With TiMax, we can offer our clients unparalleled versatility, creativity, and engagement. Our partnership with TiMax is a testament to our commitment to providing our clients with the best solutions in the market.”

Out Board director, Dave Haydon, concluded, “We are delighted to be partnering with PRO LAB, a company that shares our passion for delivering innovative and high-quality spatial audio solutions. By combining our unique abilities, we can provide exceptional and unmatched immersive experiences to global audiences.”

**Out Board**

## Captivate AV Get Hands-on with NEXO's GEO M12



**AUSTRALIA:** True to its name, Captivate AV continue to impress audiences at acclaimed events across the Gold Coast. Now in its seventh year of operation, the production company maintains an emphasis on staying ahead of the technological curve- recognising the addition of NEXO's GEO M12 line array system to their expanding acoustic toolbelt as a key step forward.

Captivate AV's founders Chris Lang and Russell Baker are making a name for themselves through meticulous execution and genuine enthusiasm for tailoring client experiences. Consistently aiming for maximum impact, Captivate AV have armed themselves with a curated collection of AV technology, with the GEO M12 now stealing the limelight from the lauded GEO S12:

"Inspired by our experience with using NEXO's GEO S12 in the past- which we had also really enjoyed using- we were very excited for the next generation of NEXO equipment when they announced the GEO M12. What drew us to it was the overall improvement to all the rigging capabilities and a great upgrade to the internals. We have used the M10 previously in other installs and felt the larger M12 would be a versatile asset for use on a wider range of gigs. We also love that M12 is lighter than using STM, which helps us fly the array in more situations when we have weight restrictions."

Designed to satisfy a spectrum of touring and installation applications, GEO M12 packs NEXO's cutting-edge sound reinforcement technology into compact and lightweight cabinets that can be flown or stacked with

ease. The flagship of the GEO M series, the M12 range encompasses a selection of high SPL line array elements and a comprehensive range of versatile deployment accessories. Emerging as one of NEXO's preeminent line array solutions, GEO M12 systems offer pristine full-range audio with consistently even venue coverage from cabinets that are more compact than competitors in their class.

Utilising the GEO M12 technology for a diverse range of live events, Chris describes his configuration for two notable shows, Wolfmother and Maryborough Carols. "We've had a number of gigs already using the line array. Maryborough Carols was a large community event of somewhere between 3000 to 4000 people," reveals Chris. "For each side we decided to go with 5x M1210s, an M1220 at the bottom and paired the flown array elements with STM S118 subs on the ground. The array was flown off the stage rigging and was really light and easy to pulley. Having the 12-inch driver meant we didn't need to carry any extra mid frequency boxes and we ran it all in Active mode for a better throw."

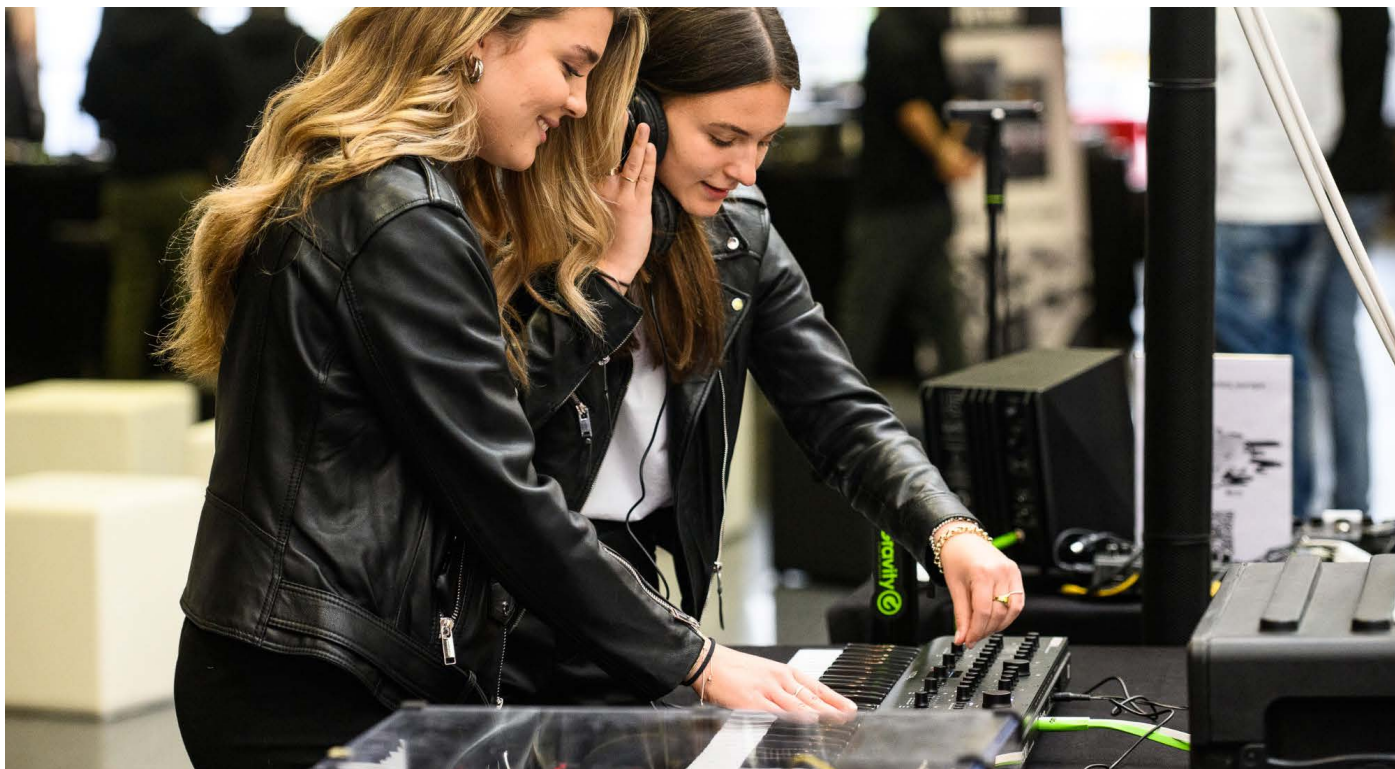
Opting for a ground-stacked arrangement for the Wolfmother concert, Chris explains the setup: "We used the M12 boxes stacked on top of 3x stacked MSUB18s- 2x M1210's and an M1220 on each. As we had to adhere to noise level constraints at the venue, we elected to use cardioid directionality for the subs, firing 2 forward and using one reversed. The Cardioid dispersion helped us direct the bass frequencies forward, keeping the neighbours happy. We also took advantage of NEXO's flexible dispersion capability, adding CDD flanges where needed to increasing coverage. Rather than our usual 90-degree horizontal spread, we used the 120-degree flared attachment on boxes for both Wolfmother and the carols event. The extra width on the bottom of the array gave us great coverage closer to the stage, and we love that it's just a simple magnetic fixing that needs to be changed in order to achieve this."

Keen to see the system continue to excel, Chris sums up his experience so far: "It's a great all-round solution that is super easy to mix on- we're very impressed!"

NEXO



## PL+S Performance + Production Hub Returns with Interactive Workshops and Live Acts



©Pietro Sutura

**GLOBAL:** After a successful première last year, the Performance + Production Hub at Prolight+Sound will not only return from 25 to 28 April 2023 but will also be expanded.

In cooperation with the makers of the Sample Music Festival and well-known brands in the audio sector, an elaborately designed Experience Zone will be created in the Portalhaus. Visitors can try out creative sound tools, experience showcases by international artists and attend top-class workshops.

The PRO MUSIK association is also on board as a new partner. This year, an action stage of the PRO MUSIK association is part of the Performance + Production Hub. Here, visitors will have the opportunity to talk to professional musicians, find out about career opportunities and watch performances, interviews and lectures. For the first time, live music will also take place on the Live Sound Arena on the open-air site. The artists

taking part in the programme include Mrs Greenbird, Marvin Scondo & The Highcuts, Lui Hill, Christina Lux and Markus Vollmer.

This expands the Performance + Production Hub's offerings to include topics such as acoustic music, band performances and the symbiosis of analogue and digital sound worlds.

On all four days of the fair, the 800 sqm area will offer technical innovations and an overview of new products in the DJing and producing market. In addition, product specialists will present innovations in the broadcasting sector. At the centre of the concept is the combination of product experience, knowledge transfer and entertainment. In addition, a compact version of the Performance + Production Hub is being created at the Radisson Blu Frankfurt, near the exhibition grounds, as a foretaste of the overall experience at Prolight + Sound.

Testing is allowed and encouraged in the Performance + Production Hub. Visitors can try out products ranging from DJ equipment to digital audio workstations,



©Pietro Suter

sequencers, midi controllers and modular synthesizers to sound reinforcement technology – the brands' product specialists will be on-hand to demonstrate.

Brands such as AvolPoE, Ableton, Audanite, Audinate, Embed Signage, Gravity Stands, Technics, Herrmutt Lobby, Humptier, LD Systems, LiteConsole, Matrox Video, Melodics, Netgear, Ortofon, Oyaide NEO, Panasonic, PioneerDJ, Serato, Sharp/NEC, SY Electronics, Tascam and Thinlabs will be presenting.

In addition, the Performance + Production hub will offer special Jam Boxes where visitors can get creative together and bring innovative sound tools to life in the style of jam sessions. There will be action areas for both the DJ sector and the modular community.

### **Education at the hub**

Together with the Raycademy, one of the most renowned DJ schools in Europe, the Performance + Production Hub presents exclusive training sessions with multiple DJ champ Ray-D. In the Music Production Corner, Ableton-certified educators will give an insight into the creative power that arises when software tools meet midi controllers and beat sequencers and production merges with live performance. There will also be specialised education stations on topics such as field recording, motion sensors and live sound branding.

Other partners in the education area include the German Pop Academy and the DJ Talks and DJ City communities for networking and exciting content.

### **Showcases and Special Events to be held alongside the show**

Renowned performers will give an insight into their skills on the show stage of the Performance + Production Hub. Among others, ARKAEI (Poland), 69 Beats (Poland), Tony Beatbutcher (Belgium), 2Tronics (Berlin) and Soundadd (Berlin) will be part of the show. Live acts at the Performance + Production Hub include London DJ and producer Gnarly.

On the evening of 26 April, a Beat Making Competition will take place in the area, followed by a networking event in a relaxed atmosphere. On 27 April, after the fair closes, all visitors are invited to the official evening event of the Performance + Production Hub that will be held at the Radisson Blu Frankfurt.

### **Audio to be a mainstay**

In addition to the Performance + Production Hub, Prolight + Sound will also offer a variety of special presentation and programme formats, thus underlining the importance of the audio segment as a mainstay of the event.

For example, the ProAudio College will be held for the first time as part of the show: In cooperation with the Education Institute of the German Tonmeister Association (BiW-vdt), the new seminar series will present top-class workshops and lectures for audio engineers, interested musicians and young professionals in the live and studio sector on all four days of the fair. After a successful premiere in 2022, the Studio Village will also be continued: Here, companies will show their innovations in music production and mastering.

Another highlight in the audio area is the Vintage Concert Audio Show in Hall 11.0. The curated exhibition will show over 200 exhibits from the history of sound reinforcement over five decades and will present exciting discussions with personalities from the audio business.

Participation in all workshops, showcases, and educational offers is free of charge for Prolight + Sound visitors.

### **Prolight + Sound**



## New Exclusive Brand Distributor MQ Lightings Now Stocking Ayrton Products



*MQ Lightings Team*

**PHILIPPINES:** Ayrton has announced the appointment of MQ Lightings as its new, exclusive distributor for the Philippines.

Established in 1987, MQ Group (popularly known as MQ Lightings) serves as the official distributor, and systems integrator, for over 40 global brands of photographic, video, broadcast/livestream, and stage equipment for the Philippine media and entertainment industry. MQ Lightings supplies customers with world-class cutting-edge, professional equipment and services and is committed to meeting the high standards of lighting designers and consultants, filmmakers, cinematographers, DOPs, broadcast engineers and other professionals in the industry.

MQ Lightings' product and marketing manager, Christian Ong, explained why they were keen to stock Ayrton products: "Ayrton is a very reputable brand, well-known by industry professionals and offers an extremely wide range of luminaires that cater to both small and large scale projects. The products fit our target market,

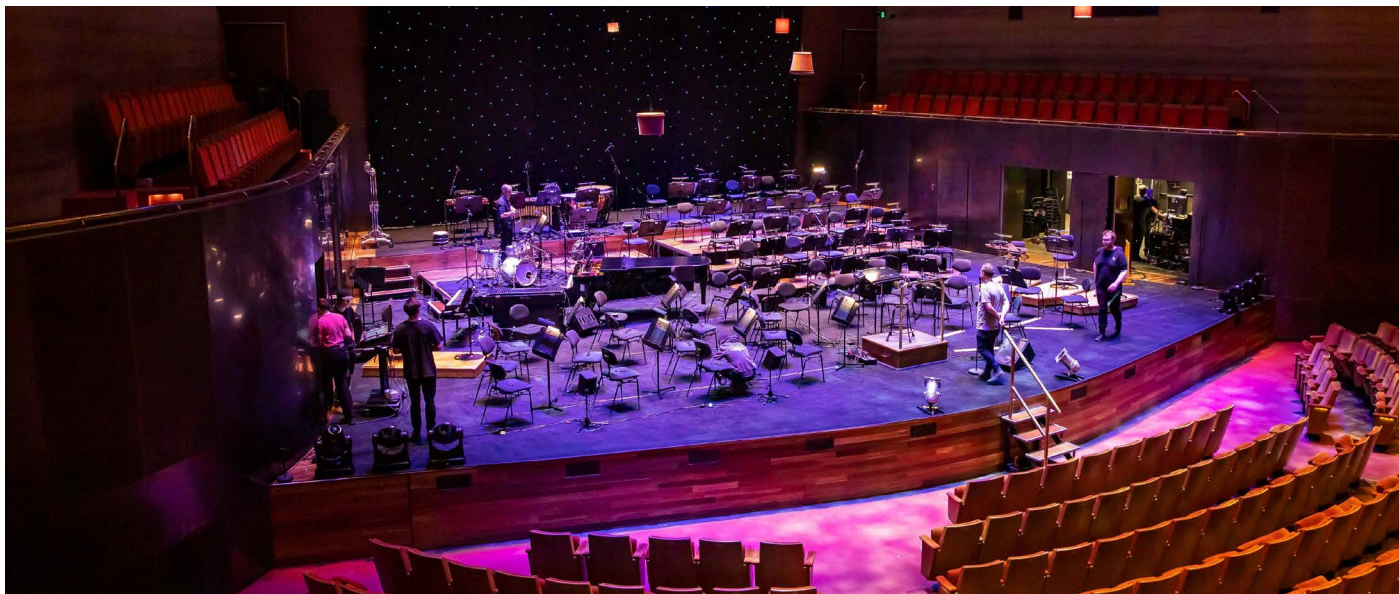
and the projects that we work on, very well, including, theatre, auditoriums, broadcast studios and houses of worship."

With immediate effect, MQ Lightings will distribute and support Ayrton's entire product line across the Philippines. "We intend to develop the Ayrton brand with open house demos, private demos and roadshows and will be very active with our social media marketing," said Ong. "We feel the Ayrton products, with their very diverse range and versatility will help to fill a significant role in our stage lighting projects, and in particular the weatherproof options."

"Ayrton is delighted to welcome MQ Lightings to the Ayrton network as our exclusive distributor for this very important market, and to work with a company that takes such great pride in bringing in the latest equipment and technology to its customers," said Ayrton's Vijay Thaygarajoo. "We look forward to developing our dynamic new partnership."

**MQ Lightings**

## grandMA3 Selected as “Best Choice” for Orchestral and Contemporary Performance Complex



**AUSTRALIA:** A new grandMA3 full-size console, a grandMA3 compact XT and a grandMA3 onPC command wing have been delivered and are in action at the 2,466-capacity Hamer Hall, the largest indoor venue at the Arts Centre Melbourne complex, which has a busy schedule of orchestral and contemporary music performances and other events.

All three consoles were delivered by MA Lighting's Australian distributor Show Technology, replacing Hamer Hall's previous lighting control system. Arts Centre Melbourne's head of Lighting Peter Darby said MA devices were the most requested lighting control options by incoming productions, adding "We thought it was the right tool for the job and the best choice for the venue."

Once they had decided on grandMA3 hardware, the next conversation was about the running mode. With the proven power and flexibility of Phasers as the system backbone, they agreed that a full grandMA3 package (hardware and software) was the way to go to control their approximately 150 fixtures, a mix of moving lights, conventional and LEDs.

"The Phasers are such a straightforward way to create very complex effects that have not been possible with previous versions of grandMA," noted Darby.

Hamer Hall's new lighting supervisor, Jake Kirby, said the dual encoders and other features reduce button presses and ultimately save time. Jake lights around 80% of the shows in Hamer Hall, the other 20 will have their own LD. "Often we will have an afternoon sound check which will be the only 'rehearsal', and from then we go straight into a show that evening never having seen the full performance before, so we have to be prepared for anything."

Peter Darby said every day is different with new challenges and ways to be creative. "Each show must look different, and the grandMA3 system with all the components really assists in achieving this." Darby also likes the console's 'letterbox' screen, the light path beneath each encoder, and the soft touch keys which are "a big departure" from the grandMA2.

Jake Kirby said he liked the tactility and responsiveness of the faders and being able to import Vectorworks 3D files via MVR directly for basic previsualization. "It was designed with both the technicalities of programming and the essence of being creative in mind."

**MA Lighting APAC**



## Amy Luley Promoted to Meyer Sound Director of Global Sales Operations



**GLOBAL:** Meyer Sound has promoted Amy Luley to its director of Global Sales Operations. In her new capacity, Luley will assume responsibility for overseeing and coordinating the operational activities of the Meyer Sound sales teams both in the United States and internationally.

Luley was promoted to the new position based on the extraordinary sales success achieved in her prior position as director of U.S. Sales Operations. She will continue in that role, but now in addition to Meyer Sound's team of sales managers in the United States, her responsibilities have been extended to include supporting the operational activities of director of International Sales Scott Gledhill (Asia Pacific), Meyer Sound Europe managing director Wolfgang Leute (sales for Europe, Middle East, and Africa), and director, Latin America Operations Jocelyn Moras. She will continue to report to Senior VP John McMahon.

"Amy played a major role in driving our sales team to set a new record for U.S. sales in 2022, and now we want to bring that same energy and skillset to the global stage," said McMahon. "She has a unique ability to not only grasp the big picture of our global sales and marketing strategy but also to apply the focused mindset needed

to manage the myriad of details and decisions that turn strategy into measurable results."

Luley joined Meyer Sound in 2014. Luley was principally responsible for introducing the Salesforce platform and leveraging its power to boost the efficiency and productivity of the company's sales efforts.

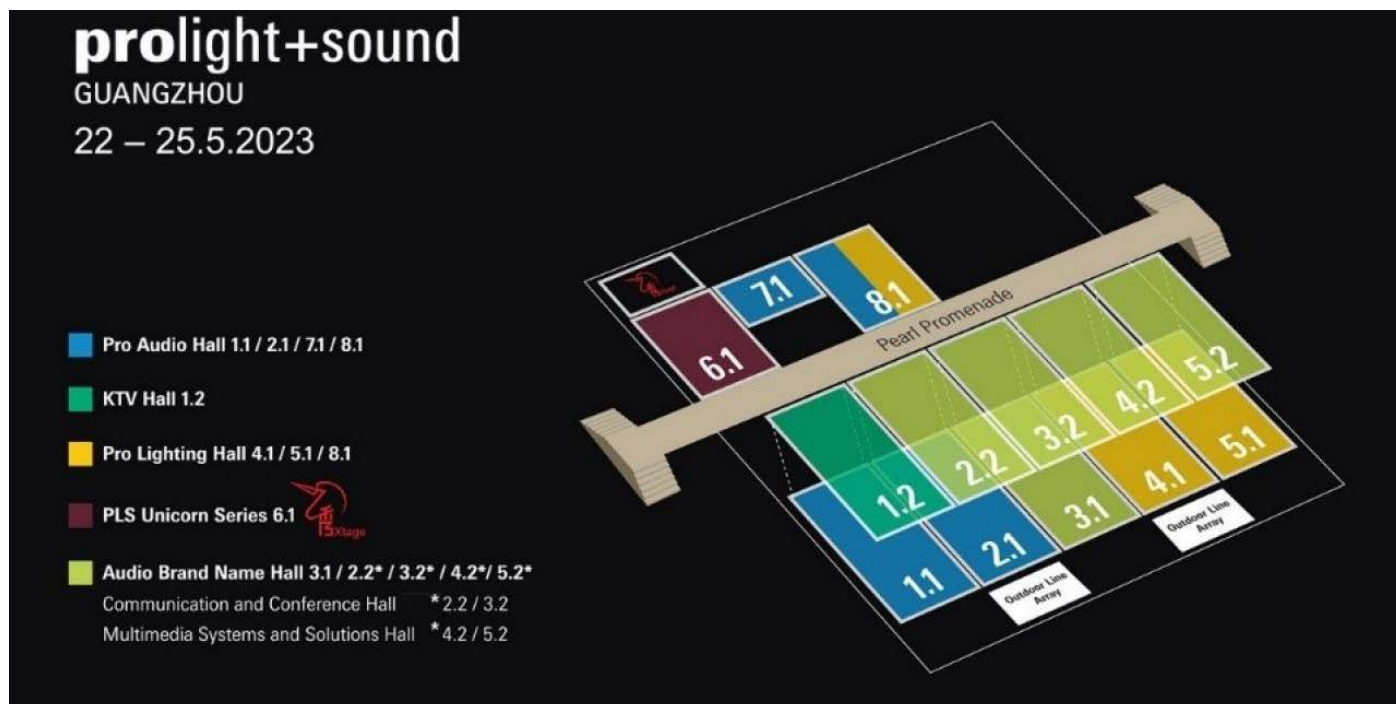
"I'm looking forward to working directly with our international sales teams," said Luley. "My focus will be on supporting their efforts with processes and tools to help them achieve higher sales. I'll also help to make sure their customers — our dealers and distributors — are up to date on all the resources they have available, not just new products, but also new marketing tools as they become available."

Although specific challenges may vary across global regions, Luley maintains that the essential approach applies across the board. "I see my role as motivating our sales team with all the tools we have available," she explained. "I already have solid relationships not only with our global sales team but many of their customers from my past positions. I look forward to strengthening this foundation and achieving our goals in 2023."

John McMahon noted that Luley was an example of the opportunities afforded at Meyer Sound. "Amy started in sales and it wasn't long before she took the initiative to make some needed changes. Her work with Salesforce helped update and transform all our sales operations. And as a liaison with our marketing teams, she made certain that our marketing efforts were developed and directed to achieve concrete results. And the results this past year certainly were impressive."

[Meyer Sound](#)

# Key Industry Leaders Confirm Participation in Prolight + Sound Guangzhou



*Prolight + Sound Guangzhou 2023 hall plan*

**CHINA:** As the largest entertainment and pro AV trade fair in China, the upcoming Prolight + Sound Guangzhou (PLSG) is set to assist industry players to embrace the trend of digitalisation in China. Scheduled to take place from 22 – 25 May 2023 in Area A of the China Import and Export Fair Complex, the 21st edition will deploy strategic hall planning across 13 thematic halls and the Y-Channel demonstration area spanning 130,000 sqm of exhibition space.

Following the major relaxation of China's quarantine measures for inbound travellers in January, the latest edition of PLSG is ready to welcome overseas exhibitors and buyers to participate at the trade fair in person. The fair will feature over 1,250 exhibitors and is expected to attract more than 70,000 visitors. Many key local industry players and globally renowned brands have confirmed their participation, including ACE, ACME, Audinate, Audio-Technica, BMB, Bosch, Bose, Cadac, Charming, Danacoid, DAS Audio, DMT, Eagle Truss, EM Acoustics, EZ Pro, Fidek, Funktion-One, Golden Sea, Gonsin, Harman International, Hikvision, IAG, ITC, Longjoin

Group, Mode, Neutrik, Pioneer DJ, Polar Lights, RCF, SAE, Sennheiser, Showven, Shure, Soundking, Star-Net, Taiden, Takstar, TW Audio, Yamaha and more.

PLSG will also leverage its strong tie-ups with various local and overseas industry associations in Brazil, Egypt, Germany, Japan, Korea, Taiwan, Thailand, the UK and the USA by inviting experts and industry peers to attend the show physically in Guangzhou. A large delegation of Taiwan entertainment technology distributors and manufacturers from the Entertainment Equipment Industry Technology Association (EEITA) has confirmed their attendance.

Finally, global e-commerce giant, eBay, will also make its first appearance at the fair. Their sharing of online business insights will be beneficial in reconnecting the export-oriented exhibitors from China with high-quality global buyers.

**Strategic hall planning to maximise potential of digital entertainment landscape**





The 2023 show will gather the full spectrum of entertainment and pro-AV products and technologies categorised under five key product halls.

- **Multimedia Systems & Solutions (Halls 4.2 and 5.2)**  
Trends in digital transformation and advances in connectivity are currently the major driving forces in the entertainment and pro AV market. While networking AV (AVoIP) continues to evolve, end-users are also demanding higher quality pro AV solutions that deliver better content and audience engagement. To cooperate more deeply with other industry players amid this changing business landscape, suppliers will demonstrate their innovative ways to incorporate networking, cloud computing, analytics, big data, and AI applications in the Multimedia Systems & Solutions Halls.

- **Communication & Conference (Halls 2.2 & 3.2)**  
In recent years, virtual conferencing and productivity tools became indispensable to the operations of many businesses and this demand is expected to remain high. The two thematic halls will gather the latest microphones, conference systems, public address systems and networks, as well as AV and communication systems, providing trade buyers with a wide variety of cutting-edge digital communication solutions.

- **Pro Audio (Halls 1.1, 2.1, 7.1 & 8.1)**  
As global business returns to normal, many tourism, live events and nightclub venues are installing new audio and sound reinforcement systems. The Pro Audio Halls

will echo these trends and showcase the latest pro audio products, as well as parts and accessories.

- **Pro Lighting & Stage Equipment (Halls 4.1, 5.1 and 8.1).**

By implementing the latest technologies in staging and other forms of performing arts in theme parks, museums as well as science centres, the cultural tourism sector is unleashing creativity and generating a great number of business opportunities for the traditional entertainment industry. Cross-sector collaboration, such as the use of outdoor lighting at cultural sights and stage equipment at scenic spots, will be demonstrated in the Pro Lighting Halls.

- **KTV and Theatre K. pub (Hall 1.2)**

The household market is another area that is seeing a steady progression. The KTV Hall will display an array of products and solutions ranging from KTV systems to new and innovative home entertainment equipment, such as in-home karaoke consoles and home theatre systems. Live-streaming products, which have soared in popularity in recent years will also be one of the spotlights at the hall.

Prolight + Sound Guangzhou is organised by Messe Frankfurt and the Guangdong International Science and Technology Exhibition Co Ltd (STE).

**Prolight+Sound Guangzhou**

## Goa's Shree Lights Acquires Brand New GrandMA3 Light



**INDIA:** MA Lighting's grandMA3 Light has quickly gained popularity as a preferred control console, especially for those rental companies that look for an extensive feature set akin to the industry flagship grandMA3 full-format, but within a vastly more compact package that's far more budget-friendly as well. Several rental companies across India have added the feature rich grandMA3 Light control consoles to their existing inventory; and the latest name to this list is Shree Lights – one of Goa's most reputed lighting equipment rental service providers.

Shree Lights have expanded their inventory of impressive technologies with the addition of a brand-new grandMA3 Light lighting console from MA Lighting; and the acquisition is attributed to fulfilling the needs of a steadily growing profile of events that the company has been commissioning over the recent past. The purchase was secured and facilitated by Hi-Tech Audio & Image, the official distribution partners of MA Lighting in India.

Vikas Savekar of Shree Lights provides an insight into the reasons that prompted the purchase; citing the console's sleek and compact ergonomic profile, coupled with its powerful and reliable processing engine that supports a more refined user interface as some of the key functional features that impressed him the most. Furthermore, Vikas states that the console's layout with new and improved buttons / keys and large screens, along with its enhanced safety rich design and its capacity to offer intuitive control and enhanced playback capability (thanks to its long-life motorized playback faders) were the other key contributing factors.

[Hi-Tech Audio & Image](#)

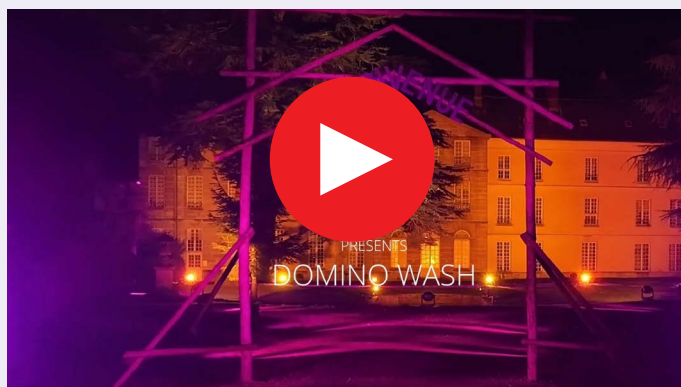


## Robe Speaks with Rachel Marlow about her Journey as an LD



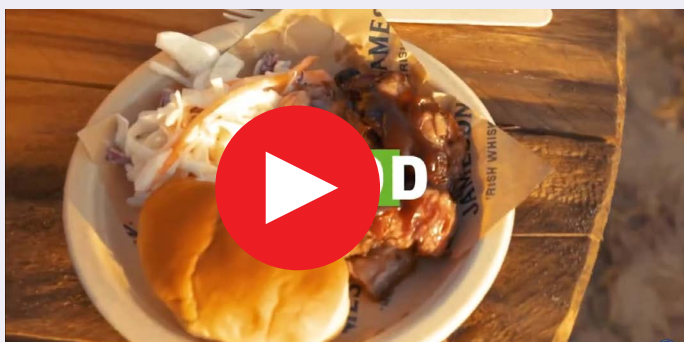
LD and artist Rachel Marlow discusses her creative projects with Robe Lighting in their Youtube series On Location. Rachel shares how her career began as well as how her visual design firm, Filament Eleven 11, captures the unique spirit of New Zealand.

## AYRTON - Domino Wash - Presentation



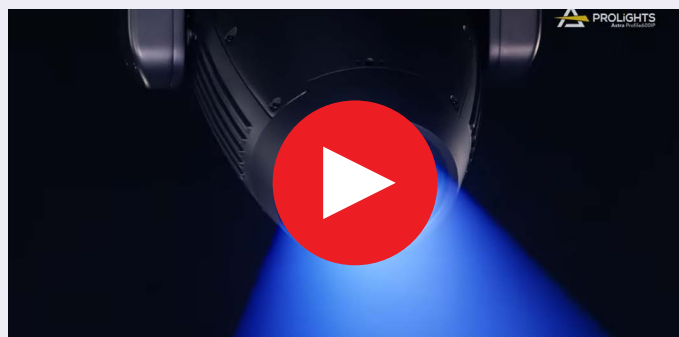
For its first IP65 wash fixture developed for outdoor use, AYRTON has chosen a 210 mm Fresnel lens with a specific optical structure designed to accurately adapt the diffusion level according to your requirements. DOMINO WASH opens up a whole new world of versatility. This luminaire is available in three versions – S, ST or TC – meant to cover all types of stage use.

## Go Out Camping Returns with JBL



Featured in our LIVE column, the first Go Out Camping Music Festival post-pandemic saw 10,000 attendees greeted at the Seokgangi Car Camping Park in South Korea with the sounds of JBL audio solutions, provided by TechData PS Co. Ltd. and Raffoler.

## PROLIGHTS Astra Profile600IP Brings the Power Outdoors



The Astra Profile600IP is a powerful, IP-65 profile moving light that is ideal for both large tours and exterior installations. Although it has a waterproof exterior, its lamp gives a superior even beam while emitting pure white light at a temperature of 6,500K.

## Emotional Purchase Decisions



You can see and feel everywhere that our beloved industry is coming back into the Asia Pacific at quite a pace. With this in mind, you see people and companies investing in new, future-proof solutions. I want to look at how we make and approach purchase decisions. With some extra money and

budget, what do you want to buy soonest? Is it that special microphone you have wanted for a while already, a new Plug-In bundle, a new console to work better and faster, an upgrade to your sound system, and finally, a professional set of stage monitors? This list is endless, and we all carry a lot of things on our bucket lists.

Besides the long wish list we all carry, an essential part is ensuring we are on solid financial footing. Many of my colleagues and friends are still paying back loans they had taken during the pandemic to survive. On the bright side, those of us who decided to hang in and stay in this industry have plenty of opportunities right now, but I hope that we will remember those difficult three years of COVID-19 and that we take some lessons away.

Please understand that I don't want to be the killjoy here, but if there is anything learned from the past three years, we are on our own, so it only seems reasonable for us to realize and take protective steps for the future. Because of the passion for what we do, people have historically had difficulties focusing on paying for health care, taxes, retirement funding and other boring but quite important matters. Coming out of the pandemic, I hope we all understand the importance of those aspects of our careers.

But let's not forget about the exciting things and the thinking about what to buy first and which of the hundred items on your wish list becomes the most important and would provide the most joy. If you desire to advance

your knowledge or your career, then this is what the focus should be on. Will this next purchase improve your career opportunities, or are you just looking for a decent return on investment? Ideally, you will get both joy and money from a good purchase.

Allow me to share a bit of my approach and consider the number of mistakes I have made along the way. My philosophy has been: "Failure is the mother of success", so I wanted to try as much as possible to maximize my opportunities for myself. In this regard, if I wanted to operate some new and complicated gear, I had to own it and then train myself to market this added skill set to new potential customers. When this became a business opportunity, I had the required skill set and the ability to rent out this complicated equipment. Much of the gear I have bought over the last three decades has not proven to open any opportunity, but some gear did, and it was still worth all the other failures.

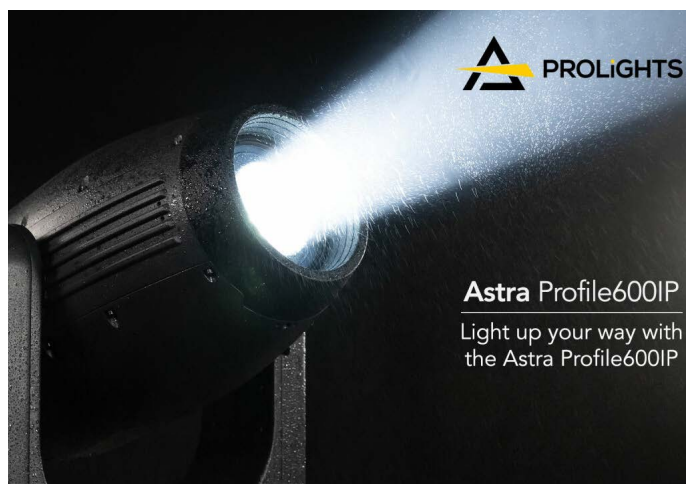
I encourage everyone to keep the excitement level high but not have the rational portion of their brain completely side-chained by this. You will ideally use both, leading to the best possible purchasing decisions. So when the excitement is so high, afford the question: How many more gigs will this gear allow me to have? What level of gigs will I be able to do with this gear? How many customers, that would appreciate this kind of gear, do I have right now? Will I charge for having this gear, and will this gear make me money eventually?

Remember that we did a few columns on measurement and reading the data. I have spent a fortune on measurement gear in the past, but I could only use this a handful of times commercially, and this gear has yet to pay for itself. However, all the lessons learned, and the new understanding I got from using this gear while not being paid for it were more than worth the investment. In this regard, I wish you a very happy shopping time.

**Join the conversation and share your thoughts with Alex. Alex can be reached at [alex@asaudio.de](mailto:alex@asaudio.de)**



## PROLIGHTS Launches Astra Profile600IP



The PROLIGHTS Astra Profile600IP is a bright, IP65-rated LED moving profile. The unit is designed for large-scale touring and exterior installations.

The Astra Profile600IP performance utilises a 600W white LED engine, reaching 21,000 lumens whilst achieving a flat field beam projection. Its optical system moves linearly from 7° to 62°. The fixture has a CMY colour mixing system that delivers beautiful, saturated colours, linear CTO correction from 2,700K to 5,600K and a colour wheel with six colour filters plus a 5,600K high CRI filter.

Lastly, the Astra Profile600IP includes 4-layer motorised framing shutters, an animation wheel, a rotating gobo wheel, one frost filter, a 4-facet prism and an iris.

[PROLIGHTS/Astra Profile600IP](#)

## NEXT Audiocom Lightweight A504DSP Amplifier Built for Touring and Install



The NEXT Audiocom A504DSP amplifier combines a lightweight, 4 x 500W (2 x 1000W) amplifier, with a powerful DSP engine that can be configured to suit a wide range of tasks, without the need for additional equipment. This allows the amplifier to drive a wide range of loudspeaker systems. The close integration of processing and amplification allows the DSP to monitor and better adapt to amplifier behaviour, making dynamics processing far more accurate and effective than that typically achieved with separate components.

The A504DSP flexibly distributes the total amplifier power in various combinations across four, three or two outputs to drive, for example, Four full-range loudspeakers or

subwoofers, High-power subwoofer + two full-range loudspeakers, High-power subwoofer + bi-amplified speaker or High-power full-range loudspeaker + High-power subwoofer.

The A504DSP is a DSP Amplifier that has been specially designed to be a cost-effective solution for both touring and installation. Onboard an advanced DSP engine is controlled by a built-in OLED screen with an encoder or by a PC, with input/output routing, high-pass and low-pass filters, parametric EQ filters, compressors/limiters, noise gates and alignment delays.

Finally, the integrated DSP controlled by a built-in OLED screen with an encoder eliminates the need for outboard loudspeaker processors.

[NEXT Audiocom](#)

## QSC TouchMix-30 Pro v3.0 Adds Scenes, Snapshots and Cue Lists Management Functionalities



QSC has introduced a major firmware v3.0 update to its TouchMix-30 Pro digital mixer. Firmware v3.0 satisfies the needs of many professionals with the addition of Scenes, Snapshots, Cue List management and offline editing functionalities.

Scenes provide the user with the ability to store and recall the entire mixer configuration, while Snapshots allow the user to save and recall selected settings for designated channels without affecting other mixer settings. Cue Lists select and arrange Scenes, Snapshots and audio files into a predetermined sequence for recall during a show, while offline editing provides the user with the ability to create and edit mixer configurations without the mixer being connected to Wi-Fi.

Previous TouchMix-30 Pro firmware updates added advanced features such as two independent 24-channel, gain-sharing Automatic Microphone Mixers, Custom Fader Banks and the capability to interface with certain third-party external motorized fader control surfaces.

The TouchMix-30 Pro is meant to be ideal for AVproduction professionals, musicians and bands with 32 mixing channels (24 Mic/Line, 6 Line, Stereo USB) and 16 outputs for tremendous signal management flexibility. It features Class-A microphone preamplifiers, Anti-Feedback and Room Tuning Wizards, two real-time analyzers (RTA), a patch matrix, a 32-channel direct-to-external-drive recording and DAW interface with macOS and Windows computers making the TouchMix-30 Pro equally competent as both a professional live sound and recording mixer.

The v3.0 firmware release is also supported by an updated TouchMix Control app for iOS and Android devices, providing further enhancements to the remote control experience.

[QSC/TouchMix](#)



## KLOTZ Expands SpeakerLink Loudspeaker Distribution Systems with Four Compact Models



The KLOTZ SpeakerLink LSV speaker distribution systems ensure fast and loss-free wiring of speaker cabinets on stage. With its smart wiring concept, the KLOTZ SpeakerLink series replaces many of the cable adapters that would otherwise be necessary, thus saving time and money.

The new, live-ready SpeakerLink models LSV1424 and LSV1824 are each available in two versions:

- LSV1424 speakON 4p. male - 2 x speakON 4p. male
- LSV1424FM speakON 4p. female - 2 x speakON 4p. male
- LSV1824 speakON 8p. male - 2 x speakON 4p. male
- LSV1824FM speakON 8p. female - 2 x speakON 4p. male

### Use as an “input box”:

Located behind amplifiers, the SpeakerLink LSV rig box collects various speaker channels and adapts them to one eight- or four-pole female or male SpeakON socket. Up to four discrete speaker channels can thus be transmitted via a SpeakON 8p. Loudspeaker Multicore.

### Use as an “output box”:

On the loudspeaker side, the LSV rig boxes adapt the loudspeaker channels back to two four-pole SpeakON sockets. The two LSV1424 models are also equipped

with bridged NLT4 sockets, allowing them to be used for both TOP and SUB cabling.

The powder-coated aluminium housing with its non-slip rubber feet reliably withstands even high mechanical loads in tough everyday stage use. Thanks to the abrasion-resistant laser engraving, the TechBlog on the side, the designation of the inputs and outputs as well as the wiring diagram on the top remain perfectly legible at all times. The latter enables event technicians to have all essential technical data immediately at hand at all times.

As usual with KLOTZ, the distribution boxes of the LSV series also offer four eyelets for safety ropes and an M10 thread for using a Manfrotto Superclamp. This means that the LSV rig boxes can also be mounted on trusses without any problems.

[KLOTZ/SpeakerLink LSV1424](#)

## Cameo Presents the OTOS SP6 and OTOS B5 – New IP65 Moving Heads from the OTOS Series



Cameo has expanded its OTOS Series. After the OTOS H5 IP65 Beam-Spot-Wash Hybrid Moving Head already impressively proved in 2022 that the demand for IP65-capable, light-intensive and lighter moving heads is growing, the German manufacturer is now expanding its portfolio with the specialist OTOS SP6 (Spot Profile) and OTOS B5 (Beam) models. These two IP65 moving heads are aimed at lighting designers and rental companies looking for tools for outdoor use, and they mark the spearhead of technological development at Cameo.

The **OTOS SP6** is an IP65 spot profile moving head with a 600W LED light source and an illuminance of 75,800 lx at a beam angle of 7°. The optical system – with a 130 mm front lens – offers an impressively wide zoom range, from 7° to 50°, and ensures precise lighting results without visible hotspots. With its IP65-rated housing, the OTOS SP6 is an extremely versatile tool for outdoor use that can be used to reliably achieve all lighting ideas, even under adverse conditions – on live stages, at outdoor events, and also in the theatre and TV sectors.

In addition to the precise illumination of people and objects, the OTOS SP6 can also be used creatively and flexibly. For this purpose, two gobo wheels, a 5-facet prism and an integrated 4-fold iris slider system with individual angulation and +/- 45° rotation are available. Two frost filters (light and heavy) and an infinitely variable iris diaphragm round off the wide range of possibilities. The OTOS SP6 works with CMY colour mixing and includes

an additional colour wheel with six dichroic filters + open for particularly saturated, powerful colours. The linear CTO correction allows for infinitely variable adjustment of the colour temperature in the range from 2,600 K to 7,000 K. Thanks to the adjustable PWM frequency (650 Hz-25 kHz), the OTOS SP6 is also suitable for flicker-free use with film and TV cameras.

Control is flexible via DMX, RDM, Art-Net, sACN, W-DMX and CRMX. When it comes to handling before, during and after production, the OTOS SP6 scores with its intelligently placed handles and an exceptionally low weight (34 kg) – as with all moving heads in the OTOS Series – which makes the OTOS SP6 the lightest representative in its performance class.

The **OTOS B5** is an IP65 beam moving head based on a 480-watt discharge lamp. It delivers an illuminance of 511,000 lx @ 15m. With its high-quality optical system – with 205 mm front lens – the OTOS B5 produces impressively precise 1° beams that prevail even in dense lighting designs and remain visible even from a greater distance.

Thanks to the IP65-rated housing, the OTOS B5 is particularly convincing under adverse conditions – whether it's in continuous rain or in dusty environments. At the same time, the 480 W custom discharge lamp of the beam moving head ensures maximum reliability and profitability in long-term use. The service life of the lamp is 3,000 hours and has been tested in continuous use under live conditions.

The effects section of the OTOS B5 includes a static gobo wheel with 19 gobos + open, as well as three rotating and indexable prisms on two levels to create a variety of mid-air effects and add depth to lighting designs. In terms of colour, users can also draw from the full range of shades, thanks to the integrated CMY colour mixing and the additional colour wheel with 14 dichroic filters for particularly saturated colours. The Cameo OTOS B5 and OTOS SP6 can already be pre-ordered. Delivery is scheduled for mid-April.

[Cameo/OTOS](#)



# PLUGGED-IN - “Stability and Redundancy are Irreplaceable at Live Events”

*Exploring the future of Cables and Connectors in the Live Event Industry with Kai Reiter, Product Manager ProAVM of KLOTZ AIS*



The live event industry is blessed to be constantly evolving with new technologies and innovations shaping the way audiences experience live performances. With the latest in sound, light and video technologies continuing to push the envelope of delivering truly immersive live experiences for audiences, it's rather easy to forget that there's a vital component behind the scenes that keeps these various systems running smoothly and seamlessly integrated as well. Cables and Connectors.

Through the evolutionary course of live event technologies, cables and connectors have consistently played a key role in augmenting massive sound

systems, intricate lighting rigs, and complex video-display systems; and as the industry has continued to grow, so too have the demands placed on these cables and connectors. With technology advancing at an unprecedented pace, the future of cables and connectors seems to have come into question, especially considering the advent of wireless technologies and the push towards sustainability.

Traditional cables and connectors used in live events may soon be a thing of the past ... Or will it?



Entertainment Technology Asia sat down with **Kai Reiter, Product Manager ProAVM of KLOTZ AIS** – one of the world's leading manufacturers for industry standard cables used in live events of all scales and magnitudes; as Kai shares his thoughts

exploring the future of cables and connectors in the live event industry, while examining the latest developments in cables and connectors, and how they will continue to be a live event industry mainstay for years to come.

**Please tell us a bit about your company? What types of cables and connectors do you specialize in for live event productions? What is your company's overall philosophy or mission when it comes to the production process?**

As a traditional family business, KLOTZ AIS has been synonymous with top quality, performance and constant innovation since 1979. Our main fields of activity are cable development and cable manufacturing. The know-how from cable technology and its peripherals also makes KLOTZ AIS one of the leading manufacturers of system solutions in connection technology. A range of assembled cables and connection systems tailored to the areas of application complete the profile as a professional partner in the fields of pro audio, video, multimedia and building technology.

**Are there any industry standards or regulations that govern the use of cables and connectors in live event productions, and how do you ensure compliance?**

Our partners have relied on the consistently high manufacturing quality of our products for years. We are ISO 9001:2015 certified thanks to our thorough quality management and test each of our products with the 6-fold KLOTZ AIS quality control. Our power cables and distributors are also tested according to DIN VDE 0701-0702, guaranteeing compliance with all regulations for the development and manufacture of power cables

and systems for professional use. However, the event technicians at live events are still responsible on site for compliance with the regulations when using the components.

**Do you have any environmental or sustainability initiatives in place for your manufacturing processes? How do you address environmental concerns, such as the use of sustainable materials and reducing waste?**

As a leading manufacturer of professional cables for live and studio applications with an annual production of well over 10,000,000 metres, we cannot shirk our responsibility for the environment. In order to live up to this claim and significantly reduce our CO2 footprint, a photovoltaic system has been in operation at our production facility in Vilchband/Wittighausen since 2020. This means that we currently generate at least 54% of the electricity we consume at our plant and thus contribute our share to reducing greenhouse gas emissions. We feed 70% of the generated energy into the public grid and use the rest for sustainable production of our articles in order to make the product life cycle of each individual KLOTZ AIS cable, known for their reliability and durability, even more future-oriented. In addition, e-cars in our company fleet use the energy fed into the grid, further reinforcing our sustainable strategy.

**How are manufacturers like yourself dealing with the increasing presence of digital / wireless technologies in live events? Is there a fear of a future where live event systems would run completely wirelessly?**

With the growing amount of different signals and formats at live events and the increasing need for ever greater bandwidths, we as cable manufacturers tend to see new areas of application such as fiber technology and proprietary multi-channel CAT formats. Wireless technology is constantly evolving - but so are the requirements. Very high channel counts, audio and video splitter systems, line array cabling with very high conductor cross-sections for optimum sound and, of course, a stable power supply - all this cannot be implemented in a stable way with wireless technology in the future. We even see potential in the connection of





*KLOTZ AIS APC fiber connectors*

transmitter systems to the production technology. Every wireless microphone must ultimately be connected to a mixer or matrix environment with a cable. A wired connection may be less convenient, but it is still far more stable than any wireless technology. Stability and redundancy are irreplaceable at live events.

**With respect to your latest portfolio of offerings, kindly explain some of the new features and capabilities that your products offer to users.**

With our newly developed power distribution systems we provide the user exactly what he urgently needs. The power distributors are used in 19" racks as well as on stage or in studios. Due to the different mounting options of the PowerLink series, the power distributors can be used in almost every environment. In addition to the professional power distribution systems, KLOTZ AIS also offers various new speaker distribution systems for large line arrays. The robust housings are made of powder-coated aluminium and feature abrasion-resistant laser engraving. They also have rubber feet for use as a floor box and an additional M10 thread for mounting on the truss. For securing in the truss, the housings are also equipped with fastening eyes for safety ropes - universally applicable and reliable in any situation.

**Do live event production companies work with cable and connector manufacturers to ensure their specific needs are met for each event? If so, please do let us know how?**

KLOTZ AIS operates in over 120 countries around the world and has always worked very closely with

customers and users. Customer-specific requirements and suggestions are also incorporated into our series products. Special connector pin assignments, massive strain relief, material improvements of cable sheath and connectors up to completely modular systems in order to be able to react flexibly to the manifold and sometimes very different requirements - all this is done in close cooperation with our professional users. Our customers are subject to extremely tough test conditions for our products. Due to the close contact to the users, our products could be continuously developed and improved over the years.

**What advice would you give to live event production companies when it comes to selecting and using cables and connectors, to ensure the success and safety of their events?**

Quality means safety! It is better to invest in good quality and for the long term than to buy cheaply. Stability and reliability are very important for live events - there are no second attempts. We focus on longevity and reliability. Our cables and systems are stable in use for decades and always ensure a problem-free event under all conditions.

**KLOTZ AIS**



## PALM EXPO 2023 – Professional to the Core - Welcomes Global Brands, Innovative Technology for Indian Market



PALM 2023 is all set to influence pro audio and light technology trends as its professional ethos in attracting latest breakthrough products. Smart speakers, super compact flat speakers, shape speakers and immersive sound-reinforcement and much more in install sound for entertainment and corporate applications.

**PALM Expo is India's foremost tradeshow for Professional Sound, Audiovisual and Lighting Industry. For over 20 years PALM expo has been the principal catalyst fuelling the industry, by connecting global manufacturers and solution providers with dealers and vertical market buyers.**

In its previous edition, PALM Expo was held after a gap of two years. In 2022, PALM Expo welcomed the pro audio, lighting, and audio-visual industry to reconnect and stimulate the market towards a recovery path. AV-

ICN Expo was merged with PALM Expo as the 2022 edition was captioned as the Reunion of the Pro AV and Pro Audio industry and the organizers put together both the expos in one hall.

As PALM Expo enters its 21st year, the show promises to acquaint its visitors with avant-garde technological innovations from the world of pro audio, lighting, and rigging. The trailblazing show, with new and returning exhibitors en masse, multiplied technological marvels, and a massive footfall of visitors, is set to return from **25-27 May 2023 at Bombay Exhibition Centre (BEC), Mumbai**. With 200+ exhibitors highlighting a wide range of products and innovations from 500+ brands at the expo floor, visitors at the expo will witness a plethora of product categories from the world of pro audio, lighting, rigging, and trussing.





“The Indian market has matured to such a level that it becomes necessary to possess the entire ecosystem of manufacturing. PALM is the platform that welcomes international brands and products manufactured worldwide to exhibit, expand distribution service and manpower in India. PALM's mantra is 'professional to the core'. Professionalism, equitability, and neutrality remains our primary goal and delivery” says Anil Chopra, Founding Director of PALM Expo & AV-ICN Expo.

PALM Expo 2023 in conjunction with AV-ICN Expo will be a major game changer as it will revive the entire demand and supply chain, reactivating trade, providing physical platform for buying and selling.

On the need for a common platform for this sector, Ramesh Chetwani, Project Director added, “The expo will reinitialize business connections, networking and interaction between exhibitors and their prospect partners, dealers, and end-users by fulfilling its responsibility in once again organizing an uncompromising expo. We have been serving this sector through PALM & AVICN for over years now, and we are happy to bring this to Mumbai to connect with our partners, delegates, buyer community, and exhibitors.”

Besides connecting exhibitors to valuable buyer community, the expo will be host to a vibrant exchange of information through immensely successful PALM highlight features, which provide opportunities for collaboration and networking with leading industry professionals and thought leaders. Highlight features include:

**PALM Conference:** PALM 2023 will again boast of a three-day conference of marquee speakers like Sreejesh

Nair, Avid Dolby Certified Audio Application Specialist; Donal Whelan, Chief Engineer at Hafod Mastering; Bhaskar Pal, Content Lead - India, ME, Africa at Dolby India and Prashant Govindan, Director – India at Generation AV to name a few.

**Demo Qube:** Demo Qubes at PALM, provide ample opportunities to exhibitors wanting to demo high-end speakers and sound systems. With restrictions on sound in exhibit hall, Demo Qube is an ideal concept for pro audio companies to demonstrate their products with ease in a private cube structure.

**Harman Live Arena:** One of the most attractive features at PALM expo - Live Arena will facilitate live demonstrations of advanced sound and lighting systems, through three-day live musical performances, featuring popular and budding artists and bands from the country's independent music scene.

**Lighting & Design Showcase:** This first of its kind lighting showcase in India, provides platform for creative excellence in the field of live events and entertainment lighting design. The showcase puts spotlight on emerging talent and provides an opportunity to lighting designers from across India to showcase their skill.

The expo's purpose this year is to provide stimulus, growth, and investment opportunities to exhibitors. PALM Expo calls upon the industry to be inspired and make new business contacts only at **PALM Expo 2023** taking place in Mumbai!

[PALM Expo](#)

## AUSTRALIA

# Jay Productions Drive Successful Kia Activation With NEXO

*NEXO ID24 loudspeakers were selected for a custom environment created by Jay Productions as part of brand activation for the car company Kia*



Established in 2008, Jay Productions partners closely with its clients to develop memorable and engaging events. Offering a comprehensive turnkey approach to event production, the Sydney-based team cater to occasions ranging from live shows, promotional walk-throughs and brand activations, to corporate, outdoor and large-scale experiences. Through the application of industry-leading audio-visual technology, Jay Productions delivers its signature verve across immersive spaces and event builds, where NEXO's touring and installation-centric ID Series is often their solution of choice.

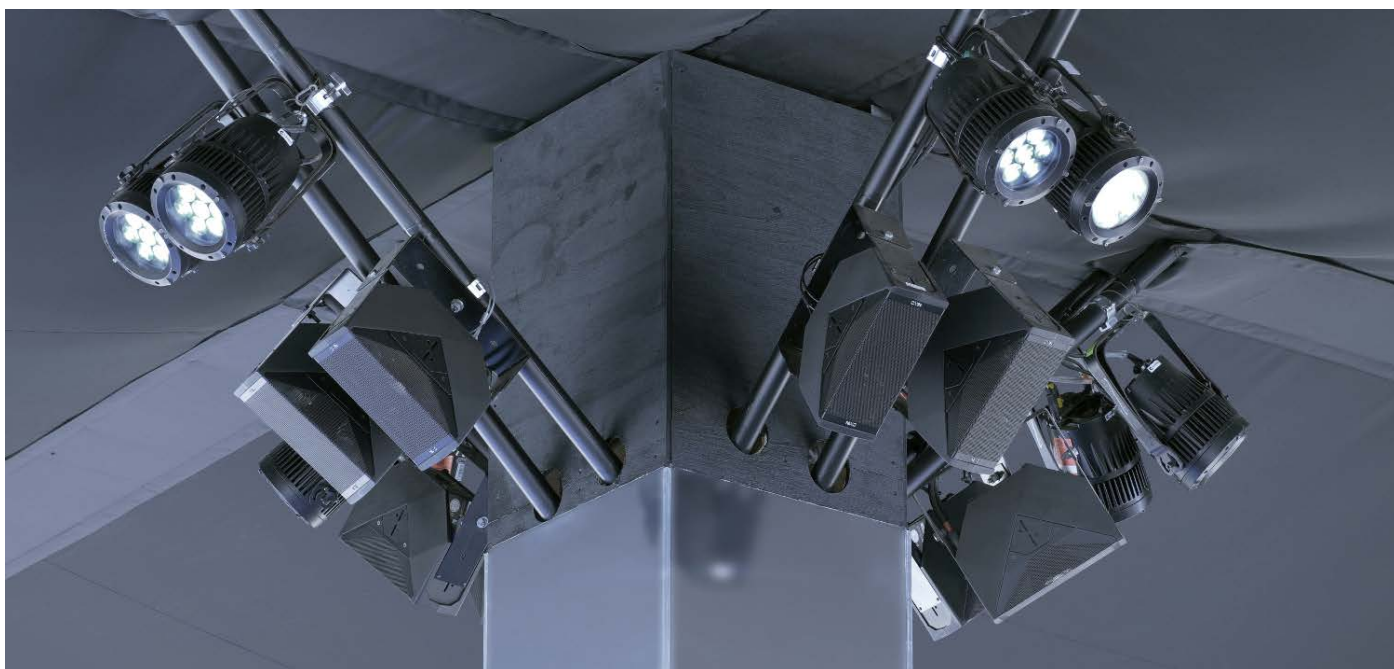
Tasked with a brand activation for automotive manufacturer Kia, Jay Productions deployed a cluster of ID24 loudspeakers for playback ambience at the EV6 GT display, held during the 2023 Australian Open. In

collaboration with event management company Studio Messa, Jay Productions designed and constructed a bespoke space featuring two display vehicles, dynamic LED imagery and extensive signage.

Mirroring the sleek aesthetics and high performance embodied by Kia's electric vehicles, NEXO's hallmark precision audio and compact cabinet designs helped cement the ID24s as the ideal choice for the brand activation setup, as Jay Productions' general manager, Phillip Dearle revealed:

"This event was really interesting and one that turned out looking great. We had an evolving brief from Kia that included layers of concepts. We created a custom stand that was purpose-built for a vehicle to take centre stage and had 8 x ID24 loudspeakers playing ambience to set the mood.





There was a central truss in the middle of the structure that allowed us to load one speaker on each side of the cross-bracing. By putting them all in the central column we had full coverage of the entire space. We used the standard black cabinets and they looked terrific: super discreet and tucked away, so they didn't distract from the display.

We cycled through a playlist of ambient tracks and the ID24's sounded perfect- you could have a conversation, but no matter where you were within the event space, you could still hear the music. Ultimately, it's the combination of the sound, power and size that makes the ID24s something we regularly go for with high-end events like this."

A feature-rich, compact full-range speaker, the ID24 is a portable system for touring and installation. Clocking in at only 24kg, each cabinet boasts an impressive power-to-weight ratio, with a peak SPL of 126dB and frequency response of 95Hz-20kHz.

Having first used NEXO's ID24 in 2022, Jay Productions' Director, Jason Ghazal has since stocked up on the units, after having his expectations exceeded during a Sydney-based Dior activation event. Outlining his affinity for the ID24, Jason details why the loudspeakers have become a valuable asset in his toolbox:

"I'm a big fan of the ID24, and so too are all the luxury brands we work with. They love the speakers because they are small and look fantastic at events- which is something that's important to our clients. They want great sound, but they also want everything to look good. Not only do you get a speaker that is very punchy for its size, but its appearance is very discreet too. That's the primary reason we use them for activations. Generally, we are using them for events similar to this Kia display every couple of months, and we have them in both black and white to suit different palettes."

Highly celebrated by the Jay Productions team, the flexibility and power of the ID Series is a testament to NEXO's technological prowess, giving sound engineers and installers an edge through a slew of advanced design considerations.

"The ID24 loudspeakers are true all-rounders!" Jay Productions' general manager Phillip Dearle concluded. "We can literally rig them on anything, and tuck or hide them away- people don't even know they are there, the sound quality is perfect, and the coverage is great no matter where they are placed. They also offer a workflow advantage- they're small units that are simple for one person to set up. They were perfect for the Kia event; they worked flawlessly."

NEXO

## NEW ZEALAND

# Robe Lights the Way for Macbeth

*Robe's moving lights provided specialized soft backlighting during the New Zealand Opera's staging of Giuseppe Verdi's Macbeth as it unleashed a gory narrative of power, politics, murder, and more*



©Grant Triplow

The New Zealand Opera's recent acclaimed production of Giuseppe Verdi's *Macbeth* unleashed a classic and grisly narrative of power, politics, corruption, murder and authoritarianism that is every bit as pertinent today as when William Shakespeare penned the original play, circa 1606.

Lighting designer Matt Marshall was delighted to be part of a talented cast and creative team delivering this outstanding production for which he specified and used Robe T1 PC moving lights to provide special soft backlighting to delineate the cast and evoke a sense of separation between them and the large scale video projections across the set. The performance opened at the Aotea Centre in Auckland, then travelled to the St James Theatre in Wellington and the Isaac Royal Theatre in Christchurch impressing critics and theatre buffs and thrilling audiences.

It was the first opera that Matt lit using T1 PC fixtures and his first creative collaboration with British director/designer and video artist Netia Jones who designed the set, costumes and video as well as directed the work. Projected images played a prominent role in the drama-turgy, beamed onto three imposing scenic walls making up the set.

As the only other technical creative in this structure, plenty of expectation was on Matt to deliver a smart and dramatic lighting design to suit the physical nature of the piece. With video projections so fundamental to the action and aesthetics, this also informed the way he lit the stage and cast. It needed a specific and refined backlight to give depth and three-dimensionality which led him to T1 PC to make the characters pop out but not affect the impact of the images.





Matt – who works internationally and prolifically on cutting-edge opera and contemporary dance productions – first saw the Robe T1 fixtures at a demo by Australian distributor Jands and was struck by their silence in addition to the quality of light.

The production's visual style was very noir with multiple greyscales, monochrome and sharp contrasts, so he needed a crisp, cold white to complement and contrast. To him, the 7 x T1 PCs were a perfect solution.

Having previously used T1 and T2 Profiles on shows for the Western Australian Ballet, he knew that light output was excellent and that the products were ideal for this environment, but it was the silence that blew him away. It's also essential for opera, as everyone involved in this genre of performance – from the orchestra and conductor to all the artists – is acutely conscious of ambient noise levels.

"There's absolutely no sound coming out of them at all," Matt repeated with raised eyebrows. "Amazing!"

Other features like the accurate shuttering system and super-smooth dimming were also useful, especially when confining light to specific areas and preventing spill onto the set. The general challenge in lighting this production was accentuating all the nuance and intrigue involved

as Francesco Maria Piave's libretto unfolded, capturing the intricacy and narcissism of the characters and the cynicism of their actions.

There had to be a constant and complete balance between the two visual media – light and moving image – to enhance the compelling storytelling, and Matt enjoyed working with Netia enormously to create this fluidity and sense of visual spectacle.

The set was essentially a giant angled box wrapping an almost bare stage, so the trick was penetrating this space and using it properly and intelligently to relate the story. Fixture placement was critical in each venue and lights had to be rigged on drop bars and other rigging infrastructure to get them spot-on, as no luminaire could be below the 10 m projector pathway.

Matt loved thinking outside the box and taking a different approach to lighting such a classic opera as much as he enjoyed utilising the T1 PCs which he reckons added a sense of clean white slickness to the grungy downbeat atmos of the proverbial 'Scottish play'.

The moving lights were supplied to the production by Wellington-based Grouse Lighting.

**Robe**

## SOUTH KOREA

# JBL Professional Goes Camping to Celebrate Return of Iconic Music Festival

*TechData PS Co. Ltd. and Raffoler equipped the three-day, outdoor festival with JBL VTX Series, PRX ONE and EON ONE MK2 gear*



With 10,000 people in attendance over three days, the first post-pandemic edition of the Go Out Camping Music Festival took place at the Seokgangi Auto Camping Site located in South Chungcheong Province's Tae'an County. Featuring an eclectic roster of artists from genres as diverse as R&B and indie—including Car, the Garden, Daybreak and more—the festival also hosted a wide range of outdoor activities including yoga, rock climbing and campfires.

To provide the Go Out Camping Music Festival with immersive and impactful sound tailored to the outdoors, TechData PS Co. Ltd. collaborated with rental company Raffoler and HARMAN Professional Solutions to implement a range of JBL Professional audio solutions. Given the stage's limited truss height and seaside

location, the festival required a setup that was lightweight and easily transportable across sandy terrain, but also provided the output and coverage sufficient for a live show. To meet these requirements, Raffoler and TechData PS worked with HARMAN Professional Solutions to deploy JBL Professional VTX Series V25 and S28, PRX ONE and EON ONE MK2 loudspeakers.

Equipped with Differential Drive technology, D2 Compression Drivers and a newly designed waveguide, the JBL VTX V25 line array provided the festival's production team with reliable output and coverage in a lightweight and compact enclosure. The installation team paired the V25 speakers with JBL VTX S28 dual 18" subs for reinforced, distortion-free low end down to 29 Hz.





Along with sharing the same technology and components, both the V25 and S28 include JBL's specially designed simple-rigging system, making for easy setup and takedown before and after the festival.

The TechData PS team reported to HARMAN that "JBL's VTX Series is an exemplary product that produces reliable results in every situation. Therefore, their choice of audio solution for the festival was a natural one."

Along with the VTX Series, the installation team also deployed JBL PRX ONE and EON ONE MK2 portable column PA systems for additional output and coverage that worked within the stage's limited space. Durable and comprehensive, both systems are rechargeable all-in-one sound solutions equipped with built-in mixers and DSP, making them ideal for any setting in need of legible, wide-reaching sound, from solo busking sets to headlining festival stages. The speakers also significantly reduced the load-in weight and transportation time, which proved ideal for the festival given the stage's limited vehicle access.

HARMAN Professional Solutions reported that festival organizer Media Bling said that the system exceeded expectations and delivered a simple, seamless system with high quality and impactful sound. They added that



organizers were impressed with HARMAN's quality of service and experience with music festivals, both of which proved crucial to a successful festival weekend. "We are thrilled that music festivals are coming back in full force once again," said Amar Subash, director of Channel Management and Audio Solutions, HARMAN Professional Solutions, APAC. "We look forward to making a greater impact with our clients through our world-class products,"

[JBL Professional](#)

## INDIA

# Friends Of Shiva Exudes Impressive Technical Prowess at Zomaland Kolkata

*D.A.S.loudspeakers provide comprehensive audio coverage to the delight of the audience*

*by Elton Noronha*



The last weekend of February was nothing less than a fun ride for citizens of Kolkata; as the 'City of Joy' hosted one of India's most beloved festival experiences 'Zomaland' on 25 and 26 February 2023. Recognized as one of India's biggest food and music carnival experiences, Zomaland is a concept initiated by popular Indian multinational restaurant aggregator and food delivery company Zomato, which brings together a celebration of energetic music performances, a wide variety of entertainment options, and loads of mouth-watering food.

Kolkata is the third Indian city to host the Zomaland carnival this year; with successful events in Hyderabad and Bengaluru garnering a great deal of love, attention and appreciation from festival-goers and in turn building a great deal of traction and excitement for Zomaland's third outing in 2023. Powered by Blinkit and Simpl, the 2-day event stayed true to its promise of offering an avenue for attendees to enjoy an endless bounty of experiences that excited the senses and left everyone wanting more. And the highlight of the fun-filled weekend was undoubtedly the slew of exciting performances that kept audiences on their toes as they swayed to the music of some of India's most revered artists; the





list of which comprised music heavy-weights like King, Anuv Jain, Zaeden, The Yellow Diary, Mitraz, Kashyap, Somanshu and Adil-Paloma.

It comes as no surprise that the enchanting stage performances were reinforced by an equally impressive and adept technical architecture – with comprehensive audio-visual expertise rendered by Kolkata based rental services outfit Friends Of Shiva, who are widely regarded as the leading event equipment service providers in the region.

Kyle Mukherjee, director of Friends Of Shiva, shares an insight into the kind of effort that went into planning the technical infrastructure for the event, as he informs, “We requested the client to provide us with a detailed autocad of the venue (Aquatica); and this helped us map and plan each and every aspect of the AV experience for the event. We wanted every last audience member to enjoy nothing less than the best experience, and so for the audio part of it we planned this out using the ease focus software and sent the prediction results file to our on-ground rigging team, who immediately got to work on putting together the precise amount of loudspeaker modules that would offer comprehensive coverage along with an optimized sonic experience throughout the

performance venue. Once rigged and tested, we had a walk-around the venue to make sure what was planned had come to fruition; and all-in-all, we noticed that we had got the results we wanted to achieve.”

Team Friends Of Shiva put together a comprehensive audio system that featured the use of a total of 20 units of the **D.A.S Aero 50** high-efficiency line array modules, complemented by 20 units of the **D.A.S LX218C** high-performance subwoofers that acted as the main PA system; with 4 units of the **D.A.S Aero 20** compact line array modules deployed as fills. A single unit of the **AVID VENUE S6L 24D** digital mixer along with a single unit of the **DiGiCo SD10** mixing console were deployed as the FOH and MON mixing consoles respectively; with an additional unit of the **AVID VENUE S6L 24C** mixing console stocked as ‘back-up’. Additionally, an impressive RF world comprising multiple units of the **Sennheiser 6000** wireless system and **Shure Axient** wireless system respectively was made available to the performing artists; with multiple units of the **Sennheiser 2000 in-ear monitoring systems** provided as the artist-monitoring solution.

An equally impressive and adept visual architecture complemented the audio experience to sublime



perfection, as team Friends Of Shiva deployed a high-quality LED screen infrastructure comprising **ATENTI's** high-performance 3.9mm LED panels with the stage adorning a video-wall measuring 11.5 mtrs x 6.5 mtrs that acted as the main backdrop, while two smaller video walls of 3.5 mtrs x 6 mtrs each flanked either side of the stage to act as the IMAG solution. The entire video processing and playback was made possible through **Novastar's** 4k PRIME all-in-one controller that allowed for comprehensive video-processing, control capabilities and precise LED screen configuration.

Speaking about the challenges encountered in bringing together a seamless experience at the event, Kyle shares, "The only challenge we faced were the timings of the tech-check/show for both days. We had a tech-check slot from 8am-12noon for 4 bands including changeovers, and the second day from 7.30-2.30pm for 6 bands. As one could appreciate – in terms of the timing itself, we were in quite a tight spot and it was imperative for us to work everything out to the T. Our team got together and ironed out the details well in advance, following which we created a master patch-list for the opening acts and segregated the equipment for the main acts. We kept two separate teams who took care of the respective segments and ensured that

the inputs & outputs were laid out appropriately while making sure that every last detail was exactly where and how it needed to be. This highly detailed level of planning helped us to get things ready quicker than the time given to us, while affording us the flexibility to ensure that we kept everything ready for the next day the night prior itself."

Needless to mention, all the hours of planning and hardwork put in by the technical team did bear rich dividend, as Zomaland 2023 offered one of the most unique festival experiences for the citizens of Kolkata to enjoy.

Kyle sums it up, saying "It is always challenging and exciting to work on projects like Zomaland that push the boundaries of enhancing the festival experience with every passing edition; and I personally feel safe to say that the client, artists and their crew members enjoyed a seamless experience while working with our team. I also believe that this had a net-positive impact on the overall experience that the audience eventually enjoyed at the festival; and I'd like to commend our entire team for detailed level of planning, discipline, focus, attention to detail and overall expertise that they've invested into bringing together a supremely successful Zomaland 2023 in Kolkata."

**Friends of Shiva**



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SCAN ME