



## Over 250 Proteus illuminate Founding Day Art Installation

YES TECH: Pioneering LED display solutions for the global stage.

South Korean worshippers celebrate with KV2 at Maris Stella

Immersive audio technology the highlight of HARMAN Professional Tour Summit

Ayrton Kyalami

JBL Pro Connect App V2

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ROE Visual Obsidian

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Robe iBOLT, T15 Fresnel, T15 PC

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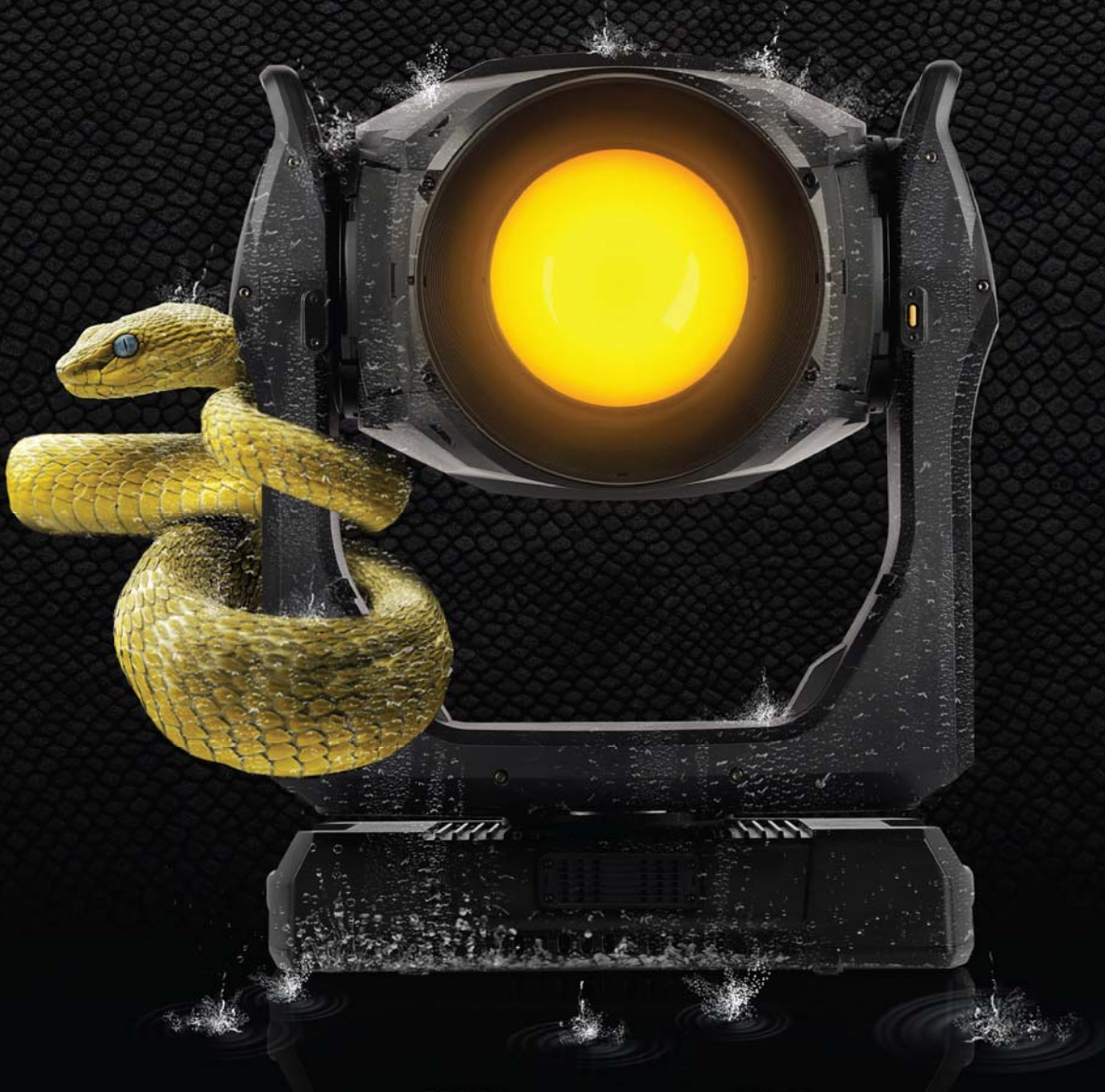
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# Over **900** tiles Light up U2's show at MSG Sphere

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- Set up special project team to meet the needs of customer and maximize the business value
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RIVALE PROFILE, a unique projector that boasts performance, creativity, subtlety and power, is the most versatile fixture created by AYRTON to date.

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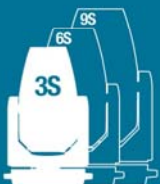
Lumens  
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Zoom aperture  
**4° to 52°**

Frontal Lens  
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IP Rating  
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





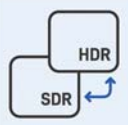




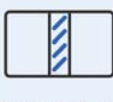


## P10/P20

Presentation Switchers

The P series (P20 and P10) are PIXELHUE's all-new 4K presentation switchers fully featured in a compact form factor. Featuring high-quality 4K processing, the P20 and P10 are designed with a wide variety of 4K connectors, including HDMI 2.0, DP 1.2 and 12G-SDI.

The P20 and P10 can work in switcher mode or PGM only mode. In switcher mode, a single P20 supports up to two 4Kx2K@60Hz outputs and a single P10 supports one 4Kx2K@60Hz output. In PGM only mode, the output resolution per P20 is up to 8Kx4K@60Hz and P10 is up to 8Kx2K@60Hz.











Additionally, the P20 and P10 come with dedicated AUX outputs connecting to auxiliary devices and a dedicated Multiviewer output is provided for live view of all the inputs and outputs from one display. High-performance image deinterlacing is also supported.

 4K I/O	 HDMI 2.0	 DP 1.2	 12G-SDI
 OPT 10km Distance	 UP TO 12 INPUTS	 UP TO 4 OUTPUTS	 UP TO 12 LAYERS
 HDR SDR	 DSK	 MULTIVIEWER	 FLEXIBLE CONTROL
 VIRTUAL DEVICES	 EDGE BLEND	 BEZEL COMPENSATION	 CUT & FILL

## U5

Compact Event Controller

Equipped with the leading-edge core architecture and SSD(NVMe), the U5 event controller enables the most fluent and fast operations ever. With the design concept of increasing operational efficiency and satisfying the various changing needs that may arise from event scenarios, the U5 event controller comes with all the crucial functionalities that you may need. The newly-upgraded built-in software PixelFlow with always user-friendly GUI helps you manage devices, screens, layers, sources, presets more stably and easily. The magnificent interactive design maximizes user convenience and shortens your learning curve. Convenient control over multiple presentation switchers and media servers greatly simplifies your on-site deployment and brings more convenience and ease to your events. In addition, timecode generating and accepting support, timecode format conversion ability and MIDI support add extra value to all spectacles.

 JOINT CONTROL	 ONE CONTROLS MULTIPLE	 10:56:48:39 TIMECODE	 KVM
 PTZ	 PROGRAMMABLE LCD BUTTONS	 ENCODERS & FADERS	 FOLDABLE DESIGN
 DUAL SCREEN	 MIDI PROTOCOL		





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# EDUCATION CONVENTION 2024

**25, 26  
JUNE**

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ESPLANADE  
SINGAPORE

## KEY SPEAKERS

**GABRIEL CHAN**  
LIGHTING DESIGNER, FOUNDER AT LINESMITH

**MATTHEW ROY LEE**  
CIRCUE DU SOLEIL, ZAIA (EX HEAD OF RIGGING)  
PRODUCTION CONSULTANT

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"PAINTING WITH LIGHT" BY GABRIEL CHAN

"RIGGING SAFE, RIGGING RIGHT FOR LIVE EVENTS" BY ROY LEE

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## Robe gets wild in Singapore

Wild Rice @ Funan is part of a modern performing arts complex sitting at the heart of Singapore's buzzing civic and cultural district. Built in 2019, the main Ngee Ann Kongsi Theatre space offers an intimate 358-capacity space with Singapore's only thrust stage, which was inspired by the Royal Shakespeare Company's famous Swan Theatre in Stratford-upon-Avon in the UK.

In 2022, the theatre took delivery of a new Robe moving light package – 10 x T1 Profiles and 16 x ParFect 150s – which joined the original lighting rig that was specified by theatre design consultants Charcoalblue when the venue opened.

More recently, the theatre invested in Robe again, purchasing Tetra2 moving LED battens and LEDBeam 350 wash beams to boost the general lighting rig.

The fixtures were delivered via Robe's Asia Pacific office, and these important lighting investments were overseen by Wild Rice's then technical manager,

Sagaya David Kanagasingam, who has worked at the theatre since 2019.

David explains that Robe T1 Profiles were first used at the Wild Rice in 2020 for a production of Peter Pan, the annual pantomime show that year, and they were specified by lighting designer Michael Chan who wanted additional key lighting for faces.

Before then, David had used them a few times at the renowned Singapore Repertory Theatre (SRT) where he had worked for many years.

There he also worked with Robe's original DL7 theatre orientated luminaires, which he was instrumental in getting into SRT's main venue.

David and his Wild Rice team which includes five full time technical staff, plus interns and freelancers, were all hugely impressed with the beautiful flesh tones and high CRI of the T1s and the impact they had on Peter Pan.

Top photo: left to right: Peter Chi - Wild Rice's new technical manager, stage technician Roy Tee Lacro, technical intern Jedrick and previous technical manager, Sagaya David Kanagasingam





LEDBeam 350™



When the time was right, and everything was moving on from the pandemic, it was determined that they needed some additional moving lights in the venue to boost the lighting production values offered to incoming productions.

“We already all loved the T1s,” he recalls, “we knew they were highly compatible with the existing house rig and were certain that having them here would benefit everyone using the space.”

In addition to quality of light, they needed a silent or low noise fixture, an especially pertinent issue with the open design of the main auditorium.

“We also wanted fixtures with a good range of subtle and nuanced colours, pastel tones and other more unusual hues that are frequently used for theatrical shows,” he noted. The T1 met all the criteria and the price was right.

Tetra2™



ParFacts were added to the order as ultimately useful all-round general purpose LED luminaires which can be used in virtually any theatrical circumstance.

Having all these Robes in the rig enables Wild Rice @ Funan to offer huge flexibility for its wide array of performances that embrace dance, drama, music, musicals, and comedy.

David’s positive experiences with Robe both here and at SRT – including for their acclaimed ‘Shakespeare in the Park’ outdoor productions – means that he trusts the brand as “reliable and very robust”.

“This together with the range of whites, the colours and colour mixing, quietness and of course the brilliant service and support from Robe AP” all make Robe a winning choice for this busy environment.





## Yupangco Electronics appointed as distributor for HARMAN Professional retail products in the Philippines

Harman Professional is delighted to announce the appointment of Yupangco Electronics Corporation (YEC) as a new retail distributor for HARMAN's iconic brands, including JBL, AKG, DBX and Soundcraft professional products, effective March 2024.

Established since 1967, Yupangco Electronics Corporation has been a prominent music store in the Philippines with a long history. It is one of the largest and most reputable music retail and distribution companies in the country. With 15 retail stores and more than 60 dealership networks across the Philippines, they specialize in serving professional and commercial audio markets, catering to various industries such as broadcast, entertainment, education, and houses of worship. YEC has expanded its product offerings to include conference systems, audio guide systems, microphones, musical recording software, digital audio networking, signal processing products, and musical instruments.

"We are excited to partner with Yupangco Electronics Corporation to expand our reach in the Philippines market," said Nick Screen, Channel Sales Director for Harman Professional APAC. "Their reputation for excellence and extensive retail coverage makes them an ideal partner to showcase our iconic brands to music enthusiasts across the country."

Jose Mari L. Yupangco, President of YEC, shared similar enthusiasm about representing Harman Professional's retail brands: "We are excited to represent HARMAN Professional's range of highly esteemed brand names and legendary models in our lineup. The JBL, AKG, DBX, and Soundcraft brands are all beloved and respected for their world-class quality, offering high-quality audio equipment ideal for our stores and client mix."



Customers can find HARMAN's JBL, AKG, DBX, and Soundcraft professional products at Yupangco flagship stores located at the Yupangco Building, 399 Gil Puyat Avenue, in Makati City, as well as at Perfect Pitch Stores and authorized dealer outlets nationwide.

<https://pro.harman.com>  
[www.yec.com.ph](http://www.yec.com.ph)  
[www.yupangco.com](http://www.yupangco.com)



# YES TECH: Pioneering LED display solutions for the global stage

Since its establishment in 2001, YES TECH Optoelectronics Co., Ltd. is a professional LED screen manufacturer. Located in Changsha City, Hunan Province, YES TECH spans 25,000m<sup>2</sup> and has emerged as a global provider of LED screen manufacturing and solutions. With a steadfast commitment to innovation, quality, and customer satisfaction, YES TECH has consistently provided products of quality and enriched visual experiences worldwide.

## Global Presence, Local Expertise

YES TECH offers a comprehensive array of products ranging from rental solutions to high-end conference displays, DOOH advertising, commercial displays, and smart city initiatives, YES TECH has forged a robust presence in over 100 countries and regions.

This global footprint is reinforced by a well-established sales network comprising 6 overseas warehouses, 2 after-sales service centers, and 3 product display centers around the world. This infrastructure ensures that YES TECH delivers exceptional product experiences and convenient services, facilitating seamless operations and utmost satisfaction for customers worldwide.

## Innovative Solutions for Prestigious Events

YES TECH strives for excellence through the provision of professional display solutions for prestigious global events. From the main stage of U2's tour at MSG Sphere to the Super Bowl LVIII Halftime Show, from the Beijing Winter Olympics to the Asian Games in Hangzhou, Jakarta, and Incheon, and from the World Cup in Qatar, Russia, and Brazil to the G20 Summit in India, Indonesia, and Japan, YES TECH's products consistently deliver outstanding performance on the global stage and has made more than 10000 projects worldwide.



At the 19th Asian Games in Hangzhou, YES TECH delivered 2000sqm LED displays and innovative solutions, dazzling audiences with visual spectacle.

Our presence was further showcased at the MSG Sphere during U2's tour, where we crafted a creative "turntable" stage using over 900 MG tiles, immersing spectators in a wonderful visual journey.

Over 800 MG tiles supported the Super Bowl LVIII Halftime show too, featuring an innovative "airplane" stage for a stunning performance. The MG "magic stage" Series has been a bestseller worldwide for decades, renowned for its original "multi-functions & multi-shapes", earning widespread acclaim.

With strong load-bearing capacity, the MG Series can be used as dance floors, sky curtains, and stadium screens, and combined with the MG Creative-extended Series can have many creative shapes to light up the stage. Making it the ideal choice to cover 100% of rental applications in sports, stage, ceremony, concert, and beyond.

## Commitment to Excellence and Innovation

At the heart of YES TECH's success lies its unwavering commitment to excellence and innovation.

The company owns over 130 patents. With 2 R&D centers located in Changsha and Shenzhen and 1 CNAS Laboratory, equipped with state-of-the-art facilities and staffed by skilled professionals, the company continuously drives progress in LED display technology.

YES TECH's pursuit of quality is underscored by its suite of certifications, including ISO9001:2015 for quality management, ISO14001:2015 for environmental management, ISO45001:2018 for occupational health and safety management, as well as various industry-specific certifications such as CCC, CE, RoHS, FCC, ETL, RCM, and BIS.

## A Vision for the Future

With a focus on innovation, quality, and customer satisfaction, YES TECH is committed to delivering unforgettable visual experiences that captivate audiences. We continue to explore the possibilities of visual technology and let the glory of oriental shines around the world.

[www.yes-led.com](http://www.yes-led.com)





## Worshippers celebrate with KV2 at Maris Stella in South Korea

Maris Stella, named after the patron saint of the busy port city of Incheon in South Korea, is a comprehensive senior care facility established in 2013 by the Catholic Foundation. The first of its kind in the country, Maris Stella provides an integrated program of pastoral care for its residents with a rich offering of social and cultural events and pastimes, plus the daily celebration of Mass in the facility's dedicated 400-seat auditorium – which also hosts lectures, film screenings and live performances. A decade on from its initial construction, the decision was made to upgrade the audio system to improve both quality and intelligibility.

KV2 distributor, Daon SD collaborated with audio consultants Audio Control to supply and install a pair of ESR106 active column loudspeakers to elevate the worship experience and improve sound quality for all the other events hosted by the venue.

Audio Control CEO Mr Noh and the church's head priest had several factors to consider when selecting a new system for the hall. The previous system relied on multiple full-range loudspeakers distributed throughout the space.







In addition to being visually intrusive, both coverage and sound quality left much to be desired, particularly in terms of vocal intelligibility. The clerical staff were keen to resolve these issues and turned to Mr Noh for advice.

Having had several demos of KV2 systems from Daon SD, Mr Noh was convinced that KV2 would be the right solution for the auditorium. Indeed, it was the demo of the EX Series that

clinched the deal, even though ultimately, Mr Noh proposed a different solution – the elegant ESR106 active column array system. ESR106 deploys multiple 6-inch woofers and a single 1-inch high frequency driver mounted on a wide dispersion horn for unparalleled high quality vocal and music reproduction in challenging acoustical spaces and ambient environments. Mounted to the left and right of the stage, this proved to be an excellent choice for the auditorium where the relatively low ceiling height compared to the depth of the room was something of a challenge.

“In order to secure the loudspeakers to the wall we customised the wall mounting hardware so that we could mount the cabinets safely on the striated wooden wall cladding,” recalls Daon SD’s John Park. “In an ideal world

we’d have raised the installation height slightly to ensure optimum coverage for both the front and back rows, but the configuration of the room didn’t allow us to do that. However, once we turned the loudspeakers on, all our concerns were forgotten. Crystal clear sound filled the room from front to back – in fact the coverage and throw of the ESR106s defies common sense! The clarity and intelligibility - even from the back seats which are 25m away from the stage – are simply in a different league to the previous system. It’s hard to believe that this is possible from just two enclosures.

“We were delighted when the head priest and the rest of the clerical staff reported back to us in the weeks following the installation that both engagement and concentration during the services had improved significantly, making the celebrations more meaningful and enjoyable for all.”

[www.kv2audio.com](http://www.kv2audio.com)





# ROE Visual showcases LED innovations at Saudi Light and Sound Expo

ROE Visual is pleased to announce its participation in the upcoming Saudi Light and Sound (SLS) Expo 2024. The event, taking place from May 7-9 at the Riyadh International Convention & Exhibition Centre, will serve as a platform for attendees to explore, test, and evaluate the latest developments and products for the AV and live event industry.

"At the forefront of fostering collaboration and impactful action, Saudi Arabia is paving the way for a robust and sustainable future for the entertainment industry. With major advancements, from staging operas to concerts, music festivals to major sporting events, broadcast, and filmmaking, Saudi Arabia is all set to make its entertainment ambitions a reality, and so are we!" says Khalid Sweidan, Vice President of Sales MEA.

ROE Visual will showcase some of its latest innovations in LED technology at the SLS Expo in Riyadh, including the Topaz-C, which will be featured as a stunning curved back wall. Topaz was introduced successfully in Europe and is now adopted by many rental houses. Content for the Topaz and the Black Marble BM4 LED floor will run on a Disguise media server, ensuring an exceptional visual experience. Additionally, ROE Visual will showcase



the renowned Black Pearl 2V2 (BP2V2), Vanish 8T (V8T) transparent LED panels, and a new indoor product, JET. Visit the ROE Visual team in Hall 4, Stand 4C11.

The Middle East market has witnessed a growing demand for ROE Visual's LED solutions, extensively used in the vibrant entertainment and events industry. Whether for concerts, festivals, corporate events, or exhibitions, ROE Visual's high-quality products set a standard for stunning visuals and offer very reliable and stable performance under demanding conditions.

Notable projects in this region include the MDLBEAST SoundStorm festival, where PRG supplied ROE LED for the mid-wing sections and the DJ riser. The World Cup Opening Ceremony 2022 and AFC Asian Cup Qatar Opening Ceremony 2023, provided by Creative Technology, featured V8T and BP2V2 panels, respectively, to fully engage spectators in the performance. Attendees at SLS will have the opportunity to view these two panels up close.



Topaz-C

Register here: <https://www.roevisual.com/news-and-events/events/sls-2024-riyadh-front>





## Immersive audio technology the highlight of the inaugural HARMAN Professional Tour Summit

The first day of the HARMAN Professional Tour Summit 2024 kicked off on March 4th at the Gateway Theatre, in Singapore with an overwhelming attendance of more than 150 attendees including audio engineers, rental companies, event management companies, consultants and performance facilities managers.

Spanning over two days, the Tour Summit is the first event by HARMAN to focus on the Touring and Performance market in the Asia-Pacific region and was attended by HARMAN Professional's Senior Leadership Committee, including President, Brian Divine and Senior Vice President for Product Development, Andy Flint.

The event programme consisted of product overviews and demonstrations as well as presentations by the HARMAN Global Product Line Management Team leaders such as George Georgallis, Director for

Performance Audio and Dale West, Senior Applications Engineer for Performance Audio.

Attendees were also briefed on success stories of music festivals like the MTV Video Music Awards, and concerts in 2023 by top tier artists such as Sam

Smith, The Foo Fighters and K-Pop star Seong Si Kyung powered by JBL Professional and Martin Lighting tour products.

Apart from showcasing current line array and point source speakers from the JBL VTX-A and F-Series, powered







by Crown Amplifiers, the JBL SRX900 Series of self-powered line arrays were presented along with lighting fixtures from the highly successful Martin Professional range. A number of new products were also showcased including the Martin MAC ONE and the JBL Venue Synthesis 3D prediction

software; which was launched during the Integrated Systems Europe (ISE) trade show earlier this year.

The star of the show was the JBL Immersive Audio demonstration powered by FLUX:: SPAT Revolution. HARMAN recently acquired FLUX::

(December 2023) and this was the first time that JBL customers in APAC were able to experience the effect of combining FLUX:: with JBL loudspeakers. Attendees were treated to an immersive audio experience like no other in a session hosted by Hugo Larin, the Senior Business Development Director for FLUX::

During the evenings, Tour Summit guests were treated to live music experiences delivered through installed JBL Tour sound systems at two of Singapore's liveliest venues –

Hero's situated in the heart of Singapore's Central Business District and the Tippy Unicorn Beach Club on Sentosa island. At Hero's, local band GRAVITY entertained the crowd with powerful vocals and an enigmatic performance, while the smooth grooves served up by Tippy Unicorn's in-house DJ kept audiences on their feet.

"The HARMAN Tour Summit was a resounding success with positive feedback from all attendees who experienced the live demonstrations of our state-of-the-art products and technologies. This event could not have been better timed given the current boom in the events and live music industry. The addition of FLUX:: into the HARMAN portfolio ensures that we can deliver truly immersive experiences for live events and fixed installations. We certainly expect to see the adoption of HARMAN Tour products continue to grow and to power more high-profile concerts and festivals in 2024," said Amar Subash, Vice President and General Manager, HARMAN Professional APAC.

<https://pro.harman.com>

MAC One







## Over 250 Elation Proteus illuminate Kingdom of Saudi Arabia Founding Day Art Installation

Lighting designer Thomas Giegerich of bright! studios and ES:ME Entertainment Services teamed up to illuminate a stunning agal art piece for Saudi Arabia's 2024 Founding Day celebration and used over 250 Elation Proteus luminaires to fulfil the brief. The event, held on February 22, commemorated the founding of the first Saudi state and showcased the rich heritage and enduring spirit of the Kingdom.

An agal, a traditional cord worn by Arab men to secure their headcloth, served as the centerpiece of the art installation, symbolizing the cultural richness of the region. Thomas, Managing Director of bright! studios, brought his expertise to the project, crafting a dynamic light show that captivated audiences and could be seen across Riyadh.

In partnership with Alex Wuerfel, CEO of ES:ME Entertainment Services, Thomas orchestrated the intricate

lighting design using Elation's IP-rated Proteus fixtures, chosen for their beam characteristics as well as their adaptability to the often harsh environmental conditions of the Middle East. Alex, a long-time collaborator of Giegerich's, recommended the Proteus fixtures.

"At this time of year in Saudi it's more about the possibility of heavy rain than a sand storm so it was an easy choice for me to make," stated Alex, who has relied on Proteus on similar projects across the region since 2019. "I like to use Elation Proteus with their marine grade specification because they work under all conditions." Alex fulfilled the role of technical director for the event, with ES:ME Entertainment Services serving as the lighting vendor.

"The vision for the art installation was to create a regal ambiance reminiscent of a crown, symbolizing the Kingdom's heritage," explains LD Giegerich. "We encircled the agal with 120 Proteus

Hybrids on the ground with 24 Proteus Excaliburs crowning the top, three circles of lights that provided a striking contrast to the square shape of the agal piece. The beams were visible from across the city and the entire installation really left a lasting impression."

The juxtaposition of the Proteus Excalibur beams against those of the Proteus Hybrids added depth and contrast to the display, creating a mesmerizing visual spectacle. "We had decided on the Proteus Hybrid but we wanted a really punchy beam that would look good in contrast to it and we chose the Excalibur," Thomas said. "We wanted to give people something special, something that was visible from afar, and we accomplished that."

One of those special looks was what the designer calls 'twisters' in which he tilts the three circles of fixtures while panning to create an intricate, overlapping spiral beam effect.

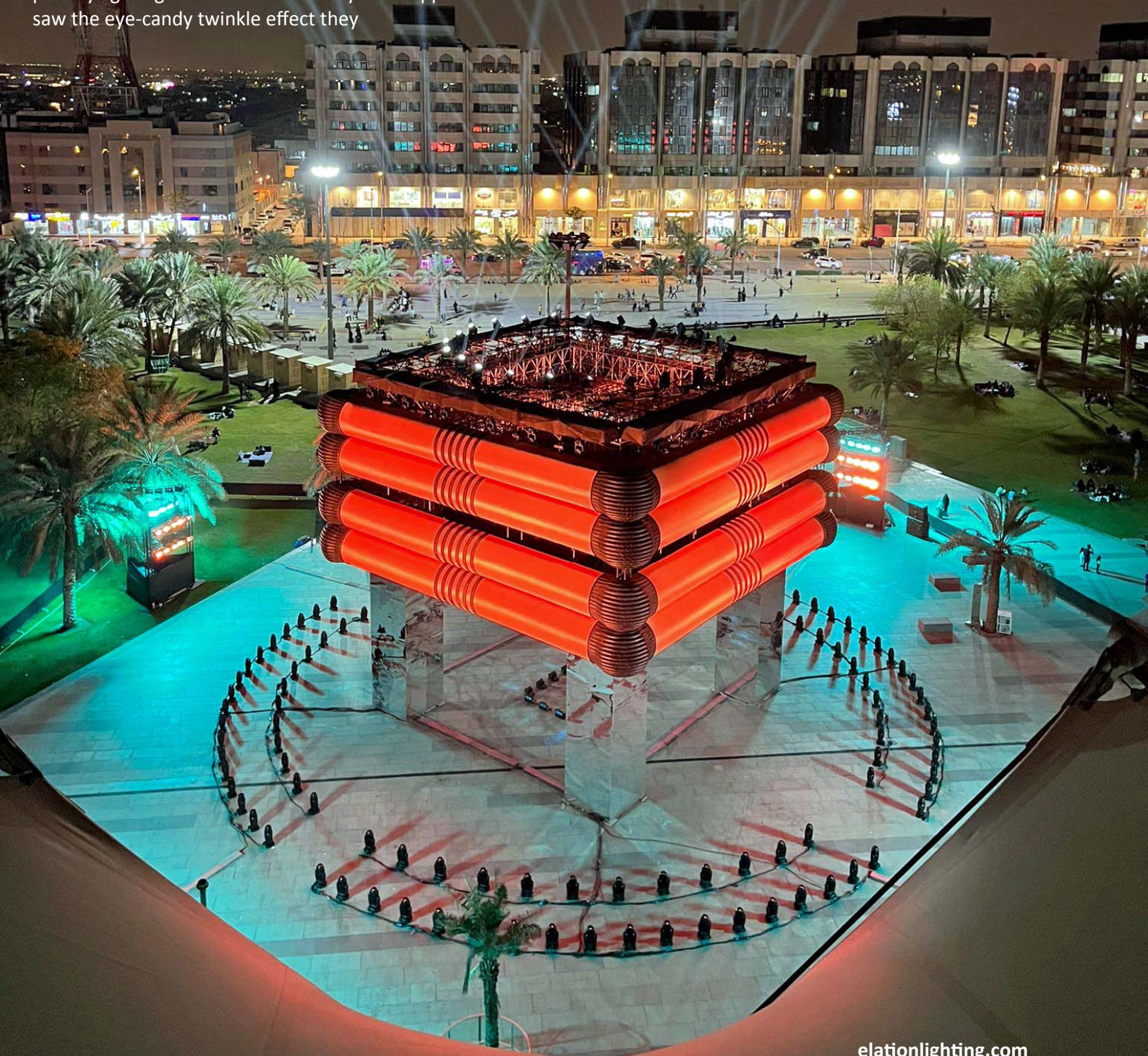


He says he saw the Excalibur at a shootout in Frankfurt last year while making fixture choices for the upcoming UEFA EURO 2024 championships and fell in love with its ability to do color while projecting a powerful mid-air effect.

To enhance the visual look of the art piece further, 60 Proteus Rayzor 760 fixtures were placed between each agal rope, creating an enchanting twinkle effect that delighted onlookers. "The client wasn't convinced of putting lights at that position," Thomas shares, "but we didn't intend to do more beams or punchy lighting with them. Once they saw the eye-candy twinkle effect they

can produce (SparkLED), they loved it. It was super beautiful and a real lifesaver."

An additional 30 Proteus Rayzor 760s adorned the King Fahad Library façade, extending the ambiance of the event. A 5-minute light show synchronized to music ran every half hour with sweeping beams, chases and intricate patterns of light filling the sky, to the delight of crowds. "The combination of the Hybrids and Excaliburs was really extraordinary and the outcome was very well received," Alex concludes. "Thanks to a great team for making this happen."







## City Music elevates audio excellence with Shure STEM ecosystem installation

City Music has been Singapore's leading retailer and wholesaler of quality musical instruments and professional audio equipment since its inception in 1968. Over its years of operation, City Music has constantly expanded its product range to include the likes of electronic keyboards and guitars, along with the inclusion of music lessons, instrument repair, and maintenance services.

As a leading force in the music industry, they have recently embarked on an exciting transformation journey, marked by a fresh corporate identity and a strategic relocation to enhance their client-centric approach. This move to a new, state-of-the-art venue signifies their commitment to elevating the standard of service and creativity, solidifying their position as a trailblazer in the industry.

As City Music expanded into a larger office space, the need to enhance the audio experience in online meetings became evident, both for the internal team and external participants, as platforms like Zoom, Microsoft Teams, and Google Meet grew in prevalence. Seamless and clear audio input and output are essential for creating a conducive and productive online meeting environment. To tackle the challenge of inadequate sound quality in online meetings due to the lack of dedicated microphones for each participant, City Music sought an effective solution to deliver and receive crystal-clear audio, ensuring a seamless virtual meeting experience in the new era of remote collaboration.

Shure technical experts along with engineers from Electronics & Engineering Pte Ltd (E&E) worked to better equip City Music's new office to

enhance their meeting experience. With the advantage of a blank slate, the new products seamlessly integrated into the office without any need for integration with previously installed audio devices. The new, bigger meeting room requires a scalable and flexible solution for its conferencing needs. Shure Stem Ecosystem was introduced to help address the challenges faced by the City Music team. With Stem Ecosystem, it not only provided the team with the freedom to customize the meeting room but its no-programming approach saves both time and money.

"The different parts of the Stem Ecosystem helped elevate our audio experience during online meetings," said Hoe Yeegn Lougn, Sales Director, City Music. "Both the microphones and speaker system worked seamlessly to deliver optimum audio quality for participant meetings."





## HARMAN Professional Solutions opens Experience Center in Bangalore, India

HARMAN Professional Solutions, the global leader in audio, lighting, video and control systems has announced the grand opening of the HARMAN Experience Center in Bangalore.

Amar Subash, vice president and general manager of HARMAN Professional Solutions for India and APAC, was joined by Michael Mauser, HARMAN president and chief executive officer; Dave Rogers, HARMAN president of Lifestyle; and other HARMAN leaders for the opening ceremony in March.

The new facility expands the growing global network of HARMAN Professional Solutions Experience Centers, with HARMAN-owned and operated locations in Los Angeles, London, Singapore, and China. The Bangalore Experience Center is located at the HARMAN Professional Solutions India headquarters.

Designed to showcase how HARMAN solutions uniquely address customer needs across a variety of entertainment and enterprise market applications, the 1890-square-foot, multi-functional

facility demonstrates the integration of brands including JBL Professional, AKG, AMX, BSS Audio, Crown, dbx, Martin, and Soundcraft.







“The opening of the Bangalore Experience Center represents a continued investment in India as this will enable us to expand HARMAN’s product awareness across a number of critical emerging verticals in the region,” said Amar Subash, Vice President and General Manager, India and APAC, HARMAN Professional Solutions. “This facility will offer our customers and partners the opportunity to experience the latest HARMAN innovations in person, and will provide our team with the valuable resources they need to pursue new opportunities with more speed and efficiency.”



*New multi-functional facility in Bangalore expands HARMAN Professional’s global network of Experience Centers and will showcase the latest cutting-edge audio, lighting, and video and control offerings*

The Bangalore Experience Center features a robust range of offerings from the HARMAN Professional portfolio, including Performance Audio, Portable PA, Architectural and Stage Lighting, Commercial Loudspeakers, Sound & Recording, Headphones, Amplification, Digital Signal Processing, Portable PA, Performance Audio, Commercial Loudspeakers, Networked AV, Video Switching & Transport, and Sound and Recording. The Bangalore Experience Center is open by appointment to HARMAN and Samsung customers, employees, distributors, sales representatives, dealers, artists and other industry professionals for meetings, performances, productions, hospitality events and more.

<https://pro.harman.com>



## Prolights Astra Beams light up the Wonder Garden

PROLIGHTS fixtures have transformed the Wonder Garden amusement park in Riyadh into a spectacle of light and colors. The park now boasts a captivating illumination setup featuring the Astra fixtures by PROLIGHTS. The project features 150 Astra Beam260IP and 50 Astra Hybrid420IP units, meticulously arranged to enhance both large and small stages. This extensive installation ensures a comprehensive and immersive lighting experience, highlighting the park's magical and whimsical themes. The fixtures have been provided by PROLAB,



PROLIGHTS distributor in Saudi Arabia, and the lighting project, overseen by the lighting designer Houssein Ramadan. The client expressed their utmost satisfaction with the project's outcome: "The ambiance achieved through our strategic use of PROLIGHTS' fixtures has exceeded our expectations, creating an unforgettable experience for our visitors." The Astra series, known for its exceptional performance and versatility, played a vital role in this installation, as stated by Rami Harber, CEO of PROLAB: "PROLIGHTS' Astra fixtures have truly redefined the luminous charm of Wonder Garden. Our partnership with PROLIGHTS showcases our dedication to pioneering lighting experiences in Saudi Arabia."

[prolights.it](http://prolights.it)

## GREEN-GO BridgeX extends Gameday Hire's remote production capability

Broadcast and streaming rental specialist Gameday Hire has expanded its GREEN-GO setup by investing in a BridgeX quad network bridge interface, enhancing its remote production capabilities. The Sydney-based company, headed up by Australian broadcast industry veteran Andy Liell, has heavily invested in GREEN-GO products over the last year with support from Rod McKinnon at Event Communications Australia. Gameday Hire's team travels across Australia, New Zealand and the South Pacific, often delivering outside broadcast technology in remote locations that require rock solid communications. Incorporating the BridgeX into their existing, extensive GREEN-GO comms



system means that the company can massively improve comms for their remote production solutions. One project Gameday Hire provides ongoing solutions for is an Australian sporting code. With three control rooms and multiple LiveU based field production kits around the country, the Gameday Hire facility covers up to 8 x 3 camera matches per week, which are broadcast live on a major streaming platform. The facility was built around GREEN-GO comms using Dante interfaces for local commentary and 4 Wire interface carried over LiveU for the remote camera comms.

[greengodigital.com](http://greengodigital.com)





## Qatar Vision chooses extensive array of Claypaky lighting fixtures for AFC Asian Cup Qatar 2023™

Qatar Vision (Qvision), the most prestigious event management company in the State of Qatar, utilized a wide array of Claypaky lighting for the AFC Asian Cup Qatar 2023™. The fixtures illuminated pre-match ceremonies, the Fan Zone and coronation ceremony at the 18th edition of the Cup, a quadrennial international football tournament organized by the Asian Football Confederation.

technology and large scale branding to a roster of world-class clients.

Among the tasks that Qvision was charged with were the implementation of comprehensive technical AV overlays across all nine stadiums; the development, production, and delivery

of stadium infotainment for all 51 matches; leading the creation of bespoke pre-match ceremonies; and orchestrating the coronation ceremony and fireworks finale. Qvision also curated engaging Fan Zone activations, fostering an immersive and enjoyable environment for all attendees.

Sharoy Plus Aqua



Based in Doha, Qvision offers a comprehensive slate of event production, technical integration solutions, marketing, creative design, video production, information







"We are immensely honored and proud to have played a pivotal role in delivering the best AFC Asian Cup ever. It adds another remarkable milestone to our track record of successfully orchestrating major international events, including the recent FIFA World Cup Qatar 2022™," says Qvision CEO/Managing Director Sharif Hashisho, who served as Artistic Director and Executive Producer for the project.

"Overseeing the intricate technical aspects of the AFC Asian Cup Qatar 2023™ was a monumental task," reports Technical Director Tom Ellis. "With challenges spanning all nine stadiums, the scale of this project was immense. Yet, through the dedication and expertise of our team, we navigated every hurdle and delivered a resounding success."

To ensure flawless execution of the AFC Asian Cup Qatar 2023™ stadium events, Qvision meticulously designed, supplied and operated a comprehensive technical overlay in each of the nine stadiums' control rooms.

Qvision installed moving lights across six stadiums to enhance the pre-match ceremony viewing experience and allow complete control of the stadium lighting. Qvision accomplished this mammoth task with 100 Claypaky Scenius Unico, 150 Sharpy Plus Aqua, 100 Xtylos and 150 K-EYE K20 HCR fixtures. An additional 24 Claypaky Skylos, 50 Mythos2 and 40 Hepikos were also deployed.

Qvision also created a technical overlay specifically for the Lusail Stadium, which served the trophy reveal segment, pre-match ceremony, half-time entertainment and the coronation ceremony. Qvision was responsible for the design, supply, installation and operation of the lighting fixtures strategically placed around the stadium to enhance the ambiance and grandeur of the ceremony. They included 60 Claypaky Scenius Unicos, 100 Sharpy Plus Aquas, 100 Xtylos, 150 K-EYE K20 HCRs, 24 Skylos, 50 Mythos2, 40 Hepikos and 50 Tambora Battens.

The 51 pre-match ceremonies that Qvision developed, produced and

delivered to all nine stadiums included four giant inflatable trophies, each with a unique platform hosting moving lights and special effects equipment, among them 12 Claypaky Xtylos fixtures. The company also designed a huge four-piece inflatable trophy exclusively for the final match.

The Fan Zone was strategically positioned near Lusail Stadium and included, at its center, a concert stage curated by Qvision and featuring performances by renowned Asian artists. Moving lights illuminated both the stage and the entire area with Qvision providing 60 Claypaky Sharpy Plus fixtures, 20 Alpha Beam 1500s and 40 Hepikos.

Prior to the start of the event Qvision also furnished Claypaky fixtures for the AFC Asian Cup Qatar 2023™ Final Draw. The company provided 100 K-EYE K20 HCRs, 40 K-EYE K10 HCRs, 50 Sharpy Plus Aquas, 24 Scenius Unicos, 40 ADB LEXPERT Profiles and 30 Tambora Battens.

[www.claypaky.com](http://www.claypaky.com)



## Brompton Technology continues as LED processing solution for the expansion of NIPA KoVAC Studio

After the successful launch of an innovative LED stage last year, the National IT Industry Promotion Agency (NIPA) has once more enlisted the expertise of South Korean XR specialists, ARK Ventures Inc, to elevate the NIPA KoVAC XR STAGE into a state-of-the-art hybrid facility. This transformation introduces LED ceiling enhancements and effects side walls, all powered by Brompton Technology LED processing. The upgrade enables the seamless, simultaneous execution of XR and ICVFX, setting a new benchmark amongst government-affiliated studios. Situated within the South Korean VR AR Complex (KoVAC) in Mapo-gu, Seoul, the studio now boasts a vast 16m by 6m ROE



NIPA Deputy Director  
Lee Jin Seo



Visual BP2V2 LED wall, a 16.6m by 6.7m ROE Visual BM4V2 LED floor, two sets of 3.6m by 3.6m LED ceilings, and a 2.4m by 3.6m side effects wall, the latter two composed of ROE Visual CB5L MKII panels. The setup is powered by four 4K Tessera SX40 LED processors and nine Tessera 10G data distribution units. Additionally, the system incorporates disguise vx 4+ media server and nDisplay by Unreal Engine. The NIPA team maximises the studio capabilities by leveraging long-standing Tessera software features such as Frame Remapping, ShutterSync® and Studio Mode, alongside the latest Extended Bit Depth, Stacking, and PureTone in their groundbreaking projects.

[bromptontech.com](http://bromptontech.com)

## Brompton Technology powers largest LED Volume in Southeast Asia from L&E Beyond

L&E Beyond, a division of the Bangkok-based Lighting and Equipment Co. Ltd. (L&E), established by industry professionals over three decades ago, has unveiled the largest LED Volume in Southeast Asia (ASEAN). Elevating the region's virtual production experience to world-class standards, and by using familiar, high-calibre equipment, it aims to attract both local audiences and international clients. Contributing to its appeal are Brompton's Tessera LED video processing solutions, which offer unprecedented colour management capabilities and an ultra-realistic visual experience, thus supporting the production of creative content such as music videos, live shows, events, award ceremonies, films and product launches, amongst other projects. Measuring an impressive 18m wide by 7m high, with a curvature adjustment of up to five degrees, the LED Volume is powered by four 4K Tessera SX40 LED processors in conjunction with eight Tessera XD 10G data distribution units, plus two Tessera S8 LED processors. The LED panels comprise AOTO RM 2.3 for the LED wall and AOTO MH 3.7 for the ceiling and movable panels, totalling 30m<sup>2</sup>. All LED panels have been meticulously calibrated with Brompton's advanced Hydra measurement tool to maximise colour saturation, brightness, and balance to deliver the best possible image quality and make the LED panels Brompton HDR-ready.



[bromptontech.com](http://bromptontech.com)





## Tosō Bunka Kaikan Cultural Centre upgrades to a professional sound system with L-Acoustics Kiva II

Chiba Prefecture's Tosō Bunka Kaikan opened in 1991 in Asahi. The Main Hall's audio system was original to the venue and was being pushed beyond its capabilities. "My team and I have been discussing the need to update the hall's original sound system for a while, until about four years ago when one of the speakers began producing undesired noise," says Tosō Bunka Kaikan Head Technical Supervisor, Shunsuke Nakakoji. The aging system lacked punch in the low frequencies and lacked clarity, especially for vocals. For live music concerts, rental systems were being used to replace the sound system, requiring a 4-tonne truck to bring in equipment.

Mr. Nakakoji reported the situation to the prefecture's council in charge of the cultural centre, and discussions about a sound system upgrade began. Representatives from the council were invited to a listening demonstration where Mr. Nakakoji set up an

L-Acoustics system in the hall. The directors heard a vast improvement in sound quality, and an agreement was made to upgrade the system over two phases of budget allocations.

Mr. Nakakoji turned to local L-Acoustics Certified Provider distributor, Bestec Audio, to acquire a mobile system that consists of 14 L-Acoustics X12 coaxial loudspeakers and six SB18 subwoofers. Mr. Nakakoji knew that, when positioned correctly, the multi-purpose point source boxes would allow the Main Hall to host community lectures and karaoke events.

Recently, Mr. Nakakoji acquired a permanent system, which consists of a left-right array of eight Kiva II with six SB15m subwoofers each, hung and concealed behind a screen on either side of the stage. A centre proscenium array comprises 10 Kiva II boxes and



three SB15m subwoofers. In-fill for the first rows is handled by one X15 HiQ box on each side, and six 5XT coaxial speakers embedded evenly across the stage lip.

The X12 and SB18m from the first-phase purchase are regularly used as a mobile system to cover audience seats on either wing and supplement low-end definition, or for stage monitors. The entire system is driven by a total of 13 LA4X amplified controllers.

[l-acoustics.com](http://l-acoustics.com)



## Alva Wong announced as General Manager, Asia

ETC Asia is pleased to announce the promotion of Alva Wong as the General Manager. Wong joined ETC Asia in 1999 as an Electronic Engineer after working at Strand Lighting for several years. Wong has been integral to ETC Asia's growth and success, taking on increasingly senior roles in the company. He served as the Manager of Project Management in 2012. He was instrumental in setting up the Customer Service Department and Pricing & Quotation Department under the Project Management Department in 2015 and 2017, respectively. Wong has successfully supported several high-profile projects, including Marina Bay Sands Singapore and West Kowloon Cultural District - Xiqu Centre. His expertise and leadership have been critical in the success of these projects. "We are thrilled to announce the appointment of Alva Wong as the new General Manager of ETC Asia." says Durrell Ramer, Vice President of ETC International Operations. "It has been my pleasure to work with Alva over the years. Alva has successfully piloted some of the largest entertainment lighting projects on the planet and his skills and good humor will be an excellent guide for both our customers but also ETC's employee owners." As the General Manager, Wong will oversee ETC Asia's operations and drive the company's continued success. His promotion is a testament to his hard work, dedication, and exceptional leadership skills; ETC Asia looks forward to his continued contributions.



[etconnect.com](http://etconnect.com)

## Christie laser projectors elevate cultural performances to new heights

Christie® is pleased to announce that its powerful HS, GS and Inspire Series 1DLP® laser projectors are illuminating a theatrical park based on the Chinese literary masterpiece, Dream of the Red Mansions, with spectacular visuals. In a dedicated effort to elevate the theatrical experience and connect the classic novel with a younger audience, the producers seamlessly integrated visual technologies into live performances, crafting an exceptionally engaging and immersive ambiance. Leading this technological enhancement, Christie's reliable partner, Beijing Zhongqing Display Technology, took on the responsibility of delivering projections across four distinct performance venues. A total of 84 projectors, including the HS Series DWU1612-HS, GS Series DWU1082-GS and DWU1400-GS, and the Inspire Series DWU860-iS, were deployed at "Beidamen light show", "Dream of the Red Mansions Chapter 33", "Youhaiwu Theatre", and "Theatre of Beds".



Christie DWU1082-GS projectors illuminate the "Youhaiwu Theatre" live performers  
Photo © Beijing Zhongqing Display Technology

[christiedigital.com](http://christiedigital.com)





## Phoenix Networks & Meyer Sound Panther have Navratri celebrations ascending to new heights

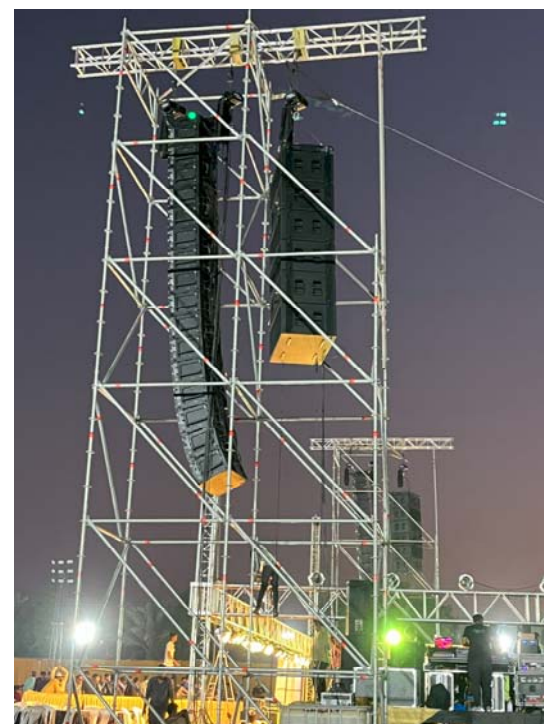
The 2023 Navratri celebrations reached new heights, both metaphorically and literally, as the Rotary Club of Bhuj in Gujarat orchestrated a 10-day cultural extravaganza at the iconic Sandalwood Villa & Clubhouse Grounds in Mirjapar.

High-energy performances notwithstanding; the undoubted unsung hero of this grand celebration was the meticulous and ingenious technical production of the event, which was expertly planned and executed by Phoenix Networks. And while Phoenix Networks holds several distinctions, among which is the fact that they were the first company in India to acquire Meyer Sound's PANTHER line array system; this event in particular marked a historic moment for the company, as it became the first-ever open-to-public event that the company deployed their prized PANTHERs in spectacular fashion. "This was the perfect platform for us to showcase the true potential of

the PANTHERs as the Navratri Celebrations organized by the Rotary Club Of Bhuj is by far one of the most prestigious and grand events to take place in the entire region. The sheer expanse and scale of the event was so magnanimous, that it not just presented us with the opportunity to demonstrate what the PANTHERs are capable of achieving, but also set the stage for our team of wonderfully talented and astute crew members at Phoenix Networks to shine bright with their impressive technical expertise and skill" comments Animesh Mishra, director of Phoenix Networks.

Starting off with Meyer Sound's advanced MAPP3D software, the team meticulously crafted a map file, laying the groundwork for the perfect sound reinforcement solution that eventually saw no delay reinforcement solution being deployed whatsoever, despite the massive expanse of the ground. The

team then referenced the extensive MAPP3D analysis, and subsequently decided to fly the PANTHER line array system in all its glory at an impressive





height of 42 feet; with 16 units of the PANTHER line array modules suspended on each side of the stage. The decision to do so not only helped team Phoenix Networks to guarantee remarkable projection, coverage, and linearity but also ensured that a substantial amount of headroom was left for mix engineers to elevate volume levels without compromising on clarity.

Furthermore, to enhance the low-frequency fidelity, Phoenix Networks adopted a truly ingenious and unique approach, as they decided to 'fly' six units of the compact yet powerful 1100 LFC subwoofers per side in a cardioid pattern.

Providing some much necessary insight on the reasoning behind this novel approach, Animesh explains, "Considering the sheer expanse of the ground and taking into account that we aimed to have no delay reinforcement solution whatsoever, we tested out quite a few configurations for the subwoofer placements and found that there was cancellation of the subs along centre-line of the audience space, while also noting a considerably high level of back rejection. We therefore tried configuring the subs in a cardioid pattern and also angling them to fire slightly outward. It was first time ever that we had tried this out, and the pressure projection readings turned out



to be much better. Hence, we decided that we would fly the 12 subs in the same configuration but at a height of 39 feet, which allowed for better projection and coverage, while opting to also have 6 subs on the ground in front of the stage to further enhance the overall low-frequency experience for the audience."

While the addition of six ground-stacked 1100 LFC subwoofers did bring together a magnificently impactful and 'tight' low-frequency fidelity experience; the auditory landscape was further enriched by eight supremely compact LINA line array modules from Meyer Sound, which were strategically placed as the center-fill reinforcement. The result was a breathtaking symphony of sound that resonated with unparalleled clarity, power, and intelligibility, captivating the audience from every angle.

To complement the loudspeakers, Phoenix Networks selected DiGiCo's Quantum 338 console and the SD10 console for the FOH and Monitoring stations, respectively, complete with 2 units of the SD Racks matched parallel with Optocore connectivity.

The commitment to excellence didn't stop with the audience; as the artists and performers received equal attention. Team Phoenix Networks equipped the stage with an array of microphones, including the Shure Beta 52A and Beta 56A, Audix DP7, Sennheiser Neuman's clip-on microphones, Sennheiser 6000 wireless solution, and Shure's Axient Digital system. A total of 32 channels of

Sennheiser 2000 In-Ear Monitors provided artists with a personalized monitoring experience, while eight MJF 210 wedges from Meyer Sound served as the primary floor-monitoring solution for the main artists to provide them with an extremely precise and nuanced feel of their performance.

Alongside, 16 units of JBL's VRX 915M two-way stage monitors acted as the floor-monitoring solution for the band members.

Needless to say; the 10-day long Navratri celebratory extravaganza at the Sandalwood Villa & Clubhouse grounds were nothing short of spectacular, as the audience and performers alike, found themselves immersed in an enchanting sonic tapestry that is sure to remain etched in their hearts and minds for years to come. Senior members of the event's organizing committee at the Rotary Club of Bhuj seem to resonate in agreement, as one of the distinguished members commented, "The meticulous planning, innovative solutions, and unwavering commitment to delivering a sonic spectacle by Phoenix Networks has undoubtedly transformed the Rotary Club of Bhuj's Navratri celebrations into a true auditory masterpiece. The fusion of traditional cultural celebrations with cutting-edge audio technology created an experience that that we've never had before, and we were so pleased to see all our club members, guests, and performers enjoying the true spirit of Navratri. Kudos to team Phoenix Networks for their exemplary passion and commitment!"





## Powersoft expands in the GCC region with Dutco Tennant

Powersoft is further expanding its distributor network in the GCC market by welcoming Dutco Tennant as its newest distributor. The appointment of Dutco Tennant will play a significant role in strengthening Powersoft's presence in the Middle East. The company will join historical Dubai-based distributor, Pro Lab, and Saudi Arabia based aDawlah. Established four decades ago, Dutco Tennant LLC has built a strong reputation in providing a wide range of products and services, providing audio, video and UCC (unified communications and collaboration) solutions in the GCC region. Dutco Tennant, based in Dubai, will focus on expanding Powersoft's regional presence in the installation market, with an emphasis on providing high-quality solutions across various areas, spanning from corporate, retail and venue centres to the hospitality industry.

[powersoft.com](http://powersoft.com)



left to right: Julie Thomas (Dutco Tennant product manager), Varun Jagger (Powersoft EMEA sales manager), Fabrizio Romano Bolzoni (Powersoft sales distribution manager), Jacob Thomas (Dutco Tennant general manager – business technology solution), Basil Varghese (Dutco Tennant applications engineer), Ramya PK (Dutco Tennant sr. key account engineer)

## Mad Soul Child switches to Prism Sound's Dream ADA-128 converter

Korean composer/production team Mad Soul Child has joined a growing band of discerning professionals who are using Prism Sound's new Dream ADA-128 modular converter for their audio conversion needs. Based in Paju, Gyeonggi-do, Mad Soul Child has a studio equipped with Pro Tools and ATC SCM 45 and KII THREE speakers. Chief sound engineer Jung Moo Kyung says the Prism Sound Dream ADA-128 is now a key part of the team's recording set up and is proving very useful, especially as the unit's expansion option card offers ample expandability for analogue outputs. "That is a significant advantage because it leaves the door open for effortless upgrades in the future, which is gratifying," he says. The difference in sound quality between the Dream ADA-128 and the converters Mad Soul Child was previously using have also been noticeable. According to Jung Moo Kyung, the ADA-128 has significantly alleviated issue often associated with Total Harmonic Distortion (THD) and plug noise. Mad Soul Child was one of the first production teams to adopt the Dream ADA-128, sourcing the unit from Prism Sound's South Korean distributor ANK.

[prismsound.com](http://prismsound.com)



Jeong Moo Kyung





KUWENI  
THE MUSICAL  
A CINEMATIC MUSICAL EXPERIENCE BY  
CHARITHA ATTALAGE

## First Allen & Heath dLive in Sri Lanka elevates Kuweni the Musical experience

The production of Kuweni the Musical by Charitha Attalage in Sri Lanka showcased the seamless integration of Allen & Heath's cutting-edge audio equipment with the multidisciplinary performance.

Allen & Heath's audio solutions played a pivotal role in bringing the production to life, with the equipment lineup including a dLive S7000 Surface, two DM64 MixRacks, four DX168 expanders, and three networking cards (gigaACE, Waves V3, and Dante 128x128).

Handling both FOH and monitors on the dLive S7000 was accomplished audio engineer and founder of leading rental company Universal Sound Productions, Malinda Lowe. Leveraging the dLive system, Lowe orchestrated a complex setup of 128 inputs and 64 outputs, ensuring impeccable audio quality throughout the show's 90-minute duration.

"As a sound engineer, I travel around the world for work, and I get to use different types of boards every time," said Lowe. "Last year I wanted to try the dLive on our Australia tour, and I loved the ecosystem and the workflow of the board. When we were planning



for the Kuweni the Musical concert, I knew the consoles I owned at the time were not going to meet this kind of complex requirement. I had many challenges to overcome with the music director's requirements, so I decided to invest in a dLive system – the first in Sri Lanka – to fulfil all my technical demands."

One of the highlights of the production was the integration of 112 open microphones, various line instruments, and an eight-channel stem playback session via Dante – with the entire setup effortlessly controlled through the Allen & Heath ecosystem.

[allen-heath.com](http://allen-heath.com)



# L-Acoustics A Series installed in Chulalongkorn University Faculty of Engineering Auditorium

Chulalongkorn University features state-of-the-art facilities on its dynamic campus in the Pathum Wan District of Bangkok. The Faculty of Engineering boasts a 500-seat auditorium that is used for lectures, conferences, ceremonial events, and live performances. The auditorium interior recently underwent a renovation that included upgrades to its mechanical, electrical, and audio-visual systems. Audiovisual consultancy Atkrist Co., Ltd. was tasked with the acoustic design of the space, and after reviewing several proposals, Atkrist and Chulalongkorn University Engineering Alumni Committee chose Advance Technology Contracting (ATC) Co., Ltd, to accomplish the audio upgrade. ATC collaborated with L-Acoustics Certified Provider Vision One to design a professional audio system based around the A Series for the newly refurbished auditorium. Atkrist's technical brief called for a system to deliver even coverage of 102dB throughout, and Vision One worked with L-Acoustics Application Engineer Chung Wah Khiew to design the ideal system configuration using L-Acoustics Soundvision 3D audio modelling software. Their system design consists of a left-right configuration of three L-Acoustics A10i Focus with one A10i Wide, topped by two KS21i subwoofers per side. Front-fill is provided by four X8 coaxial speakers spread evenly across the stage lip. Under balcony fill is provided by five 5XT, while four X8 speakers cover seats in the upper balcony. The system is just the right size to hit the venue's requirements, with an additional 6 dB of headroom.



[l-acoustics.com](http://l-acoustics.com)    [visionone.co.th](http://visionone.co.th)

# Discrete Syva and X Series from L-Acoustics create soothing nature-inspired space in MADE LIM Café

For MADE LIM Café, architects NONE SPACE reimagined a 120-year-old church, transforming it into a five-storey art, dining, and performance space. With each floor offering a unique nature-inspired theme, the MADE LIM design team wanted to offer natural, clear, non-intrusive sound to enhance and deepen the feeling of rest and immersion. With an audio program comprised of nature-themed sound effects and calming background music in addition to the dedicated performance space, the MADE LIM team sought the expertise of L-Acoustics Certified Partner Integrator Dreamsystem to design a professional audio system throughout the venue. Dreamsystem, led by project manager Yang Jin Seok, worked with the experienced system designers from L-Acoustics Certified Partner Distributor Klausys to plot the various interior spaces and seating positions in L-Acoustics Soundvision 3D audio modelling software. Their design for the Forest Hall dining and performance space comprised a pair of L-Acoustics Syva and Syva Low positioned on stage, with four X4i coaxial boxes dotted throughout the room for fill. One LA4X amplified controller drives the on-stage system. Twenty-three compact X4i speakers are installed and distributed evenly throughout the other exhibition areas, driven by six LA2Xi amplified controllers.



[l-acoustics.com](http://l-acoustics.com)    [dreamsystem.com](http://dreamsystem.com)    [klausys.com](http://klausys.com)





## Meyer Sound Constellation brings world-class flexible acoustics to Vietnam's Ho Guom Opera

With the opening of the Ho Guom Opera in Hanoi, Vietnam has vaulted to the front rank of Asian countries offering the most advanced technical facilities for hosting the performing arts. The stunning new venue was presented to the public in a soft opening in July and has since earned international accolades for its visionary architecture, audience amenities, and an aural environment instantly optimized for any event by the Constellation® acoustic system.

“As we progressed through the design development the concept evolved,” says Paris-based acoustic engineer Antoine Pommier of international consulting firm Delhom Acoustics. “The client looked to extend the types of events that could be hosted in the hall, including some amplified music. Initially, we looked at accommodating these needs with variable architectural acoustics, though optimizing for such a wide range would be a challenge.” The tipping point came with one final request. “When the client came to us and said they also wanted to host film

premieres, we knew this would be difficult without an electroacoustic solution,” says Loïs Delhom, the firm’s general manager for Vietnam.

The focus then shifted to a hybrid approach, with the architectural acoustic design working hand-in-glove with electroacoustic augmentation to assure optimum results throughout the audience seating and across a broad spectrum of reverberant field requirements, from orchestral and choral music to amplified rock and film showings.

The Constellation system at Ho Guom Opera comprises 165 full-range self-powered loudspeakers placed discreetly on the side walls and overhead in the auditorium as well as around the stage, with a dedicated D-Mitri® DVRAS processor for each of the five reverberant zones. Deep bass extension for Constellation is provided by 16 small subwoofers, and a total of 57 miniature condenser microphones are deployed throughout the space for ambient acoustical sensing.

For amplified events, the venue relies on a house system anchored by 24 LEOPARD® compact linear line array loudspeakers, with 12 900-LFC™ low-frequency control elements for bass extension. Fill and delay requirements are met by a contingent of 32 point-source loudspeakers, with ULTRA-X40™, UP 4slim™, and ULTRA-X20XP™ deployed as appropriate.

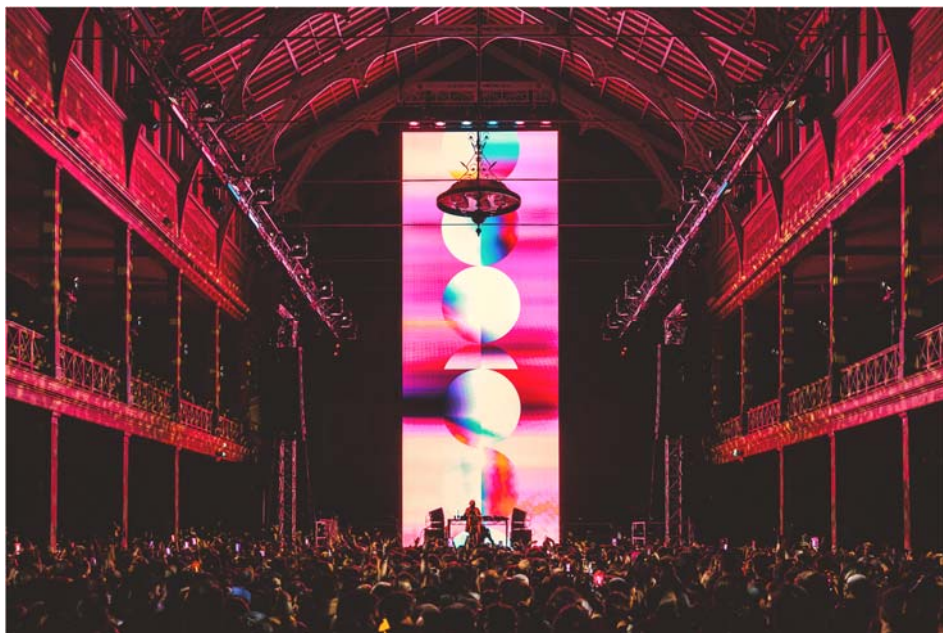
In addition to Delhom Acoustics agencies in France, China & Vietnam, Delhom Acoustics founder & CEO Jean-Philippe Delhom played a key role in the initial phase of the project. On the Meyer Sound side, Constellation Project Director John Pellowe served as principal liaison with the client and the Delhom team, and performed the system voicing, while Jessica Borowski was primarily responsible for system design and worked alongside Tom Cavnar on calibration.

[meyersound.com](http://meyersound.com)



## Brompton brings forward-thinking LED video processing technology to Now or Never festival

When Melbourne welcomed the inaugural Now or Never festival, Brompton Technology's Tessera LED processors were employed to power customised video content at the Royal Exhibition Building, where performances explored the adventurous and diverse nature of digital creativity. Gig Control, a technical management company with expertise across Australia's live events, responsible for the entire design of the lighting, audio and visual elements. Gig Control called upon full-service production rental company, Novatech Creative Event Technology, to look after the technical supply for five shows at the venue across four days of the festival. The screen displayed a range of high-resolution customised video content from the performing artists. Novatech supplied a ROE Visual Vanish V8T screen, along with a Brompton 4K Tessera SX40 LED processor and two Tessera XD data distribution units. The set-up stayed in place but was slightly modified each day to suit the varying events.



[bromptontech.com](http://bromptontech.com)

Photo © Duncan Jacob, @duncographic on Instagram

## Toei Tokyo Studio chooses Brompton Technology's LED processing

As one of Japan's top five film giants, Toei Tokyo is renowned for its comprehensive business in fields such as film, television, animation, manga, and music. At the end of last year, the company constructed Japan's largest virtual production hub, Toei VP Studios, marking the first independent operation of this type of facility by a film company in Japan. Anticipated to reach full operational status in 2024, the studio showcases a state-of-the-art LED wall comprising AOTO LED panels and powered by Brompton Technology LED processing. Toei VP Studios offers and practices efficient shooting methods, featuring the largest LED stage and one of the most experienced 16-strong teams in the country. The facility spans 640 sqm and utilises eleven 4K Tessera SX40 LED processors, along with a whopping 24 Tessera XD 10G data distribution units. The LED wall is constructed using AOTO's RM series, with MXH series for the ceiling, which can be raised and lowered to adapt to various lighting environments. The screen spans 30m by 5m, boasting a 1.5mm pixel pitch, a low scan rate, a high refresh rate, and a frame rate of 144Hz, ensuring the delivery of vivid, crystal-clear visuals. Complemented by disguise servers, ARRI cameras, and Mo-sys motion capture, the studio offers filmmakers an immersive visual experience, fostering creativity in film production.



[bromptontech.com](http://bromptontech.com)



# AVL WORLD



EUROPE | MIDDLE EAST | AFRICA | AMERICAS

No.105 | MAY 2024

## EUROPE, MIDDLE EAST, AFRICA AMERICAS ONLINE EDITION

### Ole Red Las Vegas Radiates Country With Elation Lighting

30 Years of Rock 'n' Robe celebrated at Prolight+Sound  
Ayrton lighting hit the road with Cody Johnson  
Starway put on a show Italian-style in Rimini  
GLP reports highly successful Prolight + Sound  
Jerry Appelt stages TV Total WOK WM with Cameo

Ayrton Kyalami  
Elation Fuze Teatro  
Robe iBOLT  
Robe T15 Fresnel & T15 PC  
Starway STUDIO 300 HDR

**ROBE**

SEE MORE

**iFORTE**

OUR RELIABILITY  
IN ALL WEATHERS





## Ayrton Kyalami Curve Light



Size: 265 x 430 x 265 mm (l x h x d)  
Weight 14.5kg

Kyalami is a new laser-sourced, IP65 rated fixture inspired by the revolutionary, multiple award-winning MagicDot. First released in 2015, MagicDot sold by the thousands within months, and still inspires creativity. Nine years later it has given birth to Kyalami, the first IP65 laser source luminaire in the Creative Solution series.

Devised for architectural graphic effects, Kyalami is an ultra-compact luminaire with incredible creative potential. Its essential performance capability is based on its unique design, extreme miniaturization, and a minimalist cylindrical footprint that allows multiple luminaires to be installed only a few centimetres apart.

A sphere of just 265mm incorporates Kyalami's 100W laser module, cooling system and optics, while its 126mm front lens positioned in the continuity of the sphere provides Kyalami with a unique visual signature.

Kyalami pushes all the limits when it comes to beam definition, with native contrast never before achieved by a digital light source. Its proprietary three-lens optical system produces an incredible, intensive 1° beam and an extreme range of focus that permits the beam shape to be adjusted according to the operating distance.

Kyalami delivers a record luminous flux of 400,000 lux at 10m from its next generation speckle-free laser source, which is designed for rendering a D65 white point that allows perfect colour reproduction. A highly innovative colour section includes a high-definition progressive CMY colour mixing system and a multi-position instant access colour wheel equipped with five corrective filters, and 17 complementary colour filters.

Kyalami has unrivalled graphics capability, offering a wide choice of 29 fixed metal gobos designed to sculpt light in "beam" mode. These gobos can be blended with two individually combinable rotating prisms allowing the production of a multitude of volumetric lighting effects. A light and heavy frost filter complete the graphic tool palette.

Kyalami adopts a minimalist style due to simplified waterproofing and the continuous rotation of the pan and tilt movement, increasing the possibilities for generating complex effects and making this luminaire a universal tool capable of meeting any challenge in all conditions.

A creative, elegant, original, lightweight and fast luminaire, conceived and designed to be unlike any other, Kyalami will disrupt the codes and unleash the emotions.

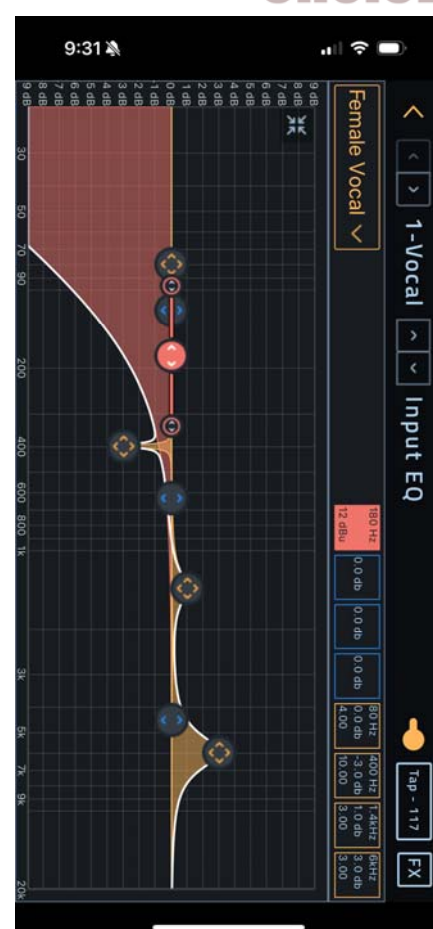
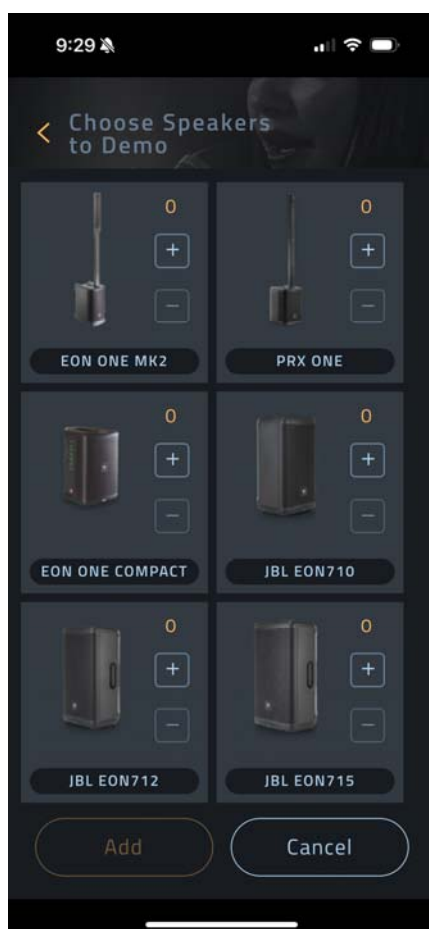


Click this link for more information at [www.ayrton.eu](http://www.ayrton.eu)



# JBL Pro Connect App V2

## For JBL Portable PA Speakers and Systems



HARMAN Professional Solutions, the global leader in audio, lighting, video and control systems, announced the launch of JBL Pro Connect V2, the newest version of its universal control application for streamlined management of select JBL portable PA speakers and systems. The new edition includes a variety of robust features and enhancements to further simplify hands-on control over a full-suite of mixer, DSP, and Bluetooth features.

V2 features include a new Demo Mode for touring of app capabilities and the ability to configure system settings and presets without needing to be connected to a Pro Connect-enabled speaker. Full Screen Mode enhances resolution for editing and adjusting controls, and Snapshot Language Support adds the convenience of saving snapshots in select local languages. A number of additional enhancements and performance improvements are also included.

Available for Android and iOS devices, JBL Pro Connect ensures that supported speakers and systems can be utilized to their full potential. Setting volume and adjusting EQ, activating Lexicon reverb and effects and dbx Digital DriveRack signal processing, customized ducking, saving and recalling presets, and more are all included features.

The app also offers a choice of pre-loaded presets for accessing popular control features like input EQ, dynamics, gates, limiters, and chorus delay. A variety of even deeper presets for EQ, gate, compressor, tap, delay, reverb, chorus, output limiter, output EQ, and more are also included. App-exclusive features and settings include snapshots, multi-speaker grouping, tap tempo, and more.

JBL Pro Connect is free for life and more speakers and systems are continually expanding the Pro Connect ecosystem. From professional musicians and DJs to presenters, instructors and novices alike, JBL Pro Connect eases speaker setup and management and empowers users to have complete control of their portable PA experience.



Click this link for more information at

<https://jblpro.com/products/jbl-pro-connect-app-v2>



# Martin Professional MAC Viper XIP

## High-Output, Full-Featured Outdoor Moving Head

HARMAN Professional Solutions, the global leader in audio, lighting, video and control systems, today announced its Martin MAC Viper XIP, the next-generation Viper-class fixture that integrates iconic Viper performance, Martin's patent-pending XIP weatherproofing technology, and the most robust feature set Martin has ever developed. Drawing on best-in-class features that defined the renowned Viper lineup, MAC Viper XIP sets a new standard for all-in-one performance, innovation, and reliability.

Integrating powerful lumen output, XIP water and dust ingress protection, and whisper-silent noise levels, MAC Viper XIP is not only perfect for temporary, year-round outdoor needs but equally ideal for theater, broadcast, and other noise-sensitive applications. Featuring Martin's tailor-made light engine, the fixture delivers 28,000 lumens consistent output, outperforming much larger products on the market.

Unleashing an impressive 5° narrow, high-definition, and high-contrast beam, MAC Viper XIP ensures unprecedented lumen maintenance over the zoom range. Its superior 5,800K color temperature naturally enhances illuminated objects and ensures a white point precisely on the black body curve.

Precision motor control results in unmatched pan & tilt speeds and nimble response times - key for followspot systems and optimal performance. MAC Viper XIP's color mixing, zoom speeds, and ratio between high-quality output, low-noise operation, and low-weight and size make it a truly versatile workhorse.

It also features high-resolution, low-level dimming and gobo light recycling, enabling 25% additional output when inserting gobos for increased performance and efficiency.



Adding to its feature-rich offering, MAC Viper XIP leverages innovative onboard NFC technology to empower quick and streamlined setup via the forthcoming, dedicated Martin app. It also offers simplified connectivity among the most popular control protocols, including DMX, Wireless DMX via plug in module, Art-Net, sACN and Martin P3 Control (with fail-safe bypass).

The newly designed optical system significantly enhances the customer experience with a high-resolution projection system that offers unmatched gobo projection sharpness. Uniquely high-contrast levels, paired with brilliant and crisp lens designs ensure incomparable, razor-sharp mid-air effects. From concert stages to TV studios and EDM festivals to opera houses, the world's top designers, specifiers, and rental companies can

invest in the confidence and return on investment that only the MAC Viper lineup has proven possible.



Click this link for more information at [www.martin.com](http://www.martin.com)



## Robe iBOLT™

### A Force of the Future!

The iBOLT™ is a unique, innovative, hugely bright fixture that is the first real replacement for conventional 7K xenon searchlights on the market. With the same feature set as Robe's groundbreaking and universally popular MegaPointe®, the iBOLT can be a beam, spot, wash and effects luminaire for stage and outdoor use. It has a beautiful – 300mm – large front lens and has been described as “a MegaPointe on super-steroids!”

The LSW-5™ white laser phosphor light source produces massively potent beams of light for optimum performance and reach, which are combined with the latest Searchlight and Skyflower technology plus extremely low power consumption, weight and compact size in this incredible fixture.

The iBOLT's 300mm front lens has precision optics for creating high-definition beams which are adjustable via a 0.4° - 8.5° zoom. SpektraBeam™ is a paradigm-shifting patented effects engine for producing transformative lighting experiences and a CMY + Colour wheel with DataSwatch™ library unlocks a vast, near unlimited array of colours.

The complete iBOLT effects package includes gobo wheels, patented MLP™ stackable multi-level prisms, and continuous PAN rotation.

ScanGuard™ is a patent-pending continuous safety monitoring feature with auto-cut to prevent direct source viewing, and to deal with the most challenging exterior environmental conditions, the fixture benefits from Robe's patented POLAR+™, EMS™ and RAINS™ IP protection technologies.

***iBOLT – A Force of the Future!***



Click this link for more information at [www.robe.cz](http://www.robe.cz)



# Robe T15 Fresnel™ & T15 PC™

For broadcast studios and theatres



This is a fixture for broadcast studios and theatres featuring Robe's new ZoomStat™ system with stationary fresnel or PC lens (patent pending) and motorised zoom range of 10° - 72° with a soft fresnel style of light output and a CRI of 95 that is perfect for natural skin tones.

With ZoomStat™ incorporating a stationary front Fresnel or PC lens, an impressively wide beam angle exceeding 70° is produced.

In conjunction with the motorized zoom functionality, ZoomStat™ enables adjustment of the beam / wash spread in three different ways – remotely from the console, via a motorized fader conveniently located on the fixture's side, or through user-friendly backlit control buttons situated on the fixture's rear panel.

The fixture offers CMY or RGB colour control with a virtual CCT range from 2.700K to 8.000K.

Robe's Cpulse™ flicker-free management is ideal for use with all the latest camera systems.

The in-house designed, developed, and manufactured MSL-TE™ 350W LED

engine offers an excellent 11,960 lumen output, and other benefits include the AirLOC™ for less residue and less noise. The zero airflow-over-optics means extended cleaning intervals and low noise levels make it ideal for sound-sensitive environments.

A PC version of the T15 fixture is also available with identical features.



**Light source**

MSL-TE™ 350W LED Engine (Patented)



**Light output**

11.960 lm



**Zoom range**









10° - 72°



**Effects**

Virtual colour wheel, tungsten lamp effect, motorized Zoom

**Innovations**

 NFC	 GDTF	 REAP
 EPASS	 BARS	 CPULSE
 AIRLOC	 GREEN CONTROL	



Click this link for more information at [www.robe.cz](http://www.robe.cz)



## ROE Visual Obsidian Its First ICVFX-Focused LED Panel

Premier LED display provider, ROE Visual is once again pioneering the Virtual Production (VP) industry and inspiring the creative minds testing the boundaries of filmmaking technology. Obsidian is a game-changing LED display intentionally designed with in-camera use in mind. Leveraging ROE Visual's extensive presence in LED volumes around the world, the Obsidian panel offers unparalleled features tailored to the strenuous demands of the media and entertainment sector.

Since the success—and subsequent boom in LED volumes—from the Disney+ series, *The Mandalorian*, the ICVFX landscape has transformed, demanding greater requirements from manufacturers. As a service-first LED display leader, ROE Visual has carefully received and evaluated feedback from the market. Obsidian directly fulfills many of the needs posed by directors, cinematographers, and technicians who work directly with LED displays on set.

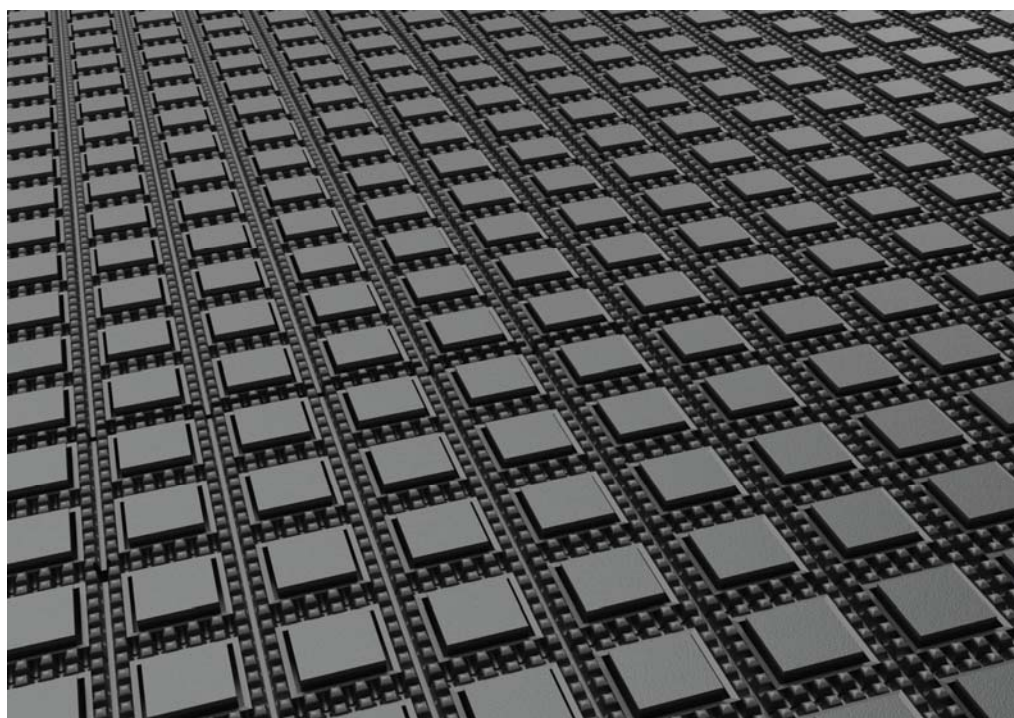
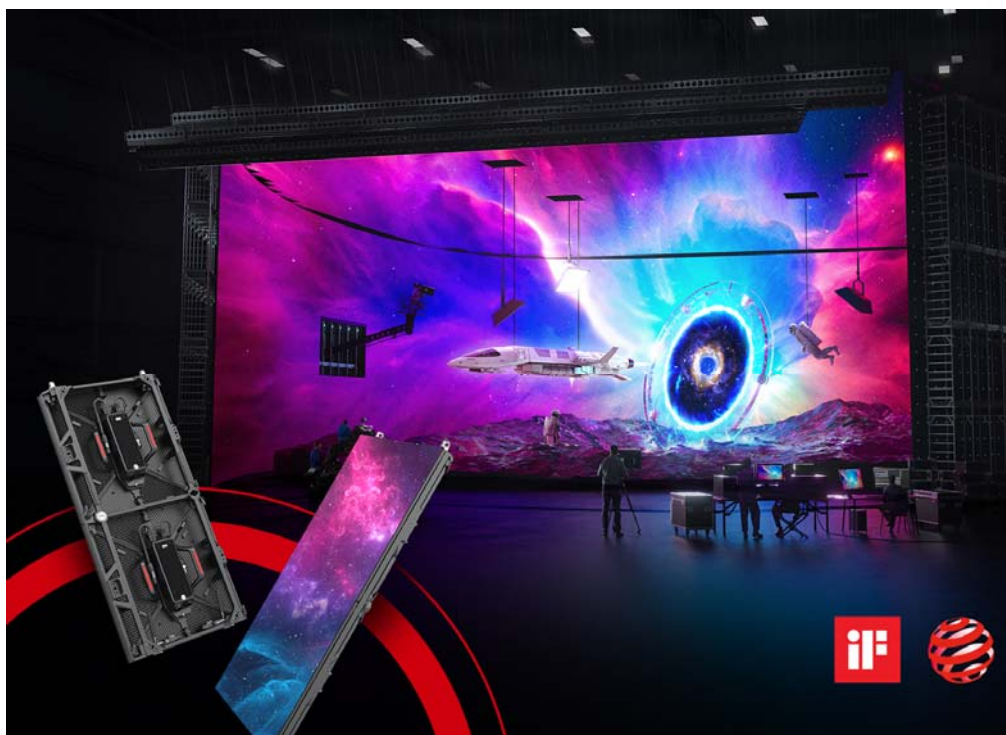
Introducing a new product to the market at this stage in the VP industry's development requires viable updates.

### Create Access Windows at Any Given Point

Obsidian was imagined with working LED stages in mind, making the ideal application semi-permanent to permanent installations. The panel's reinforced frame design allows for the removal of LED modules at any time, facilitating the creation of access holes for additional equipment, such as lighting fixtures or props. The access point can be created up to 2m wide and 2m high or more.

### Access Platform for Safe Operation

The Obsidian LED structure can be extended with an access platform of adjustable height to create easy and safe access for technicians who need to work on the volume.



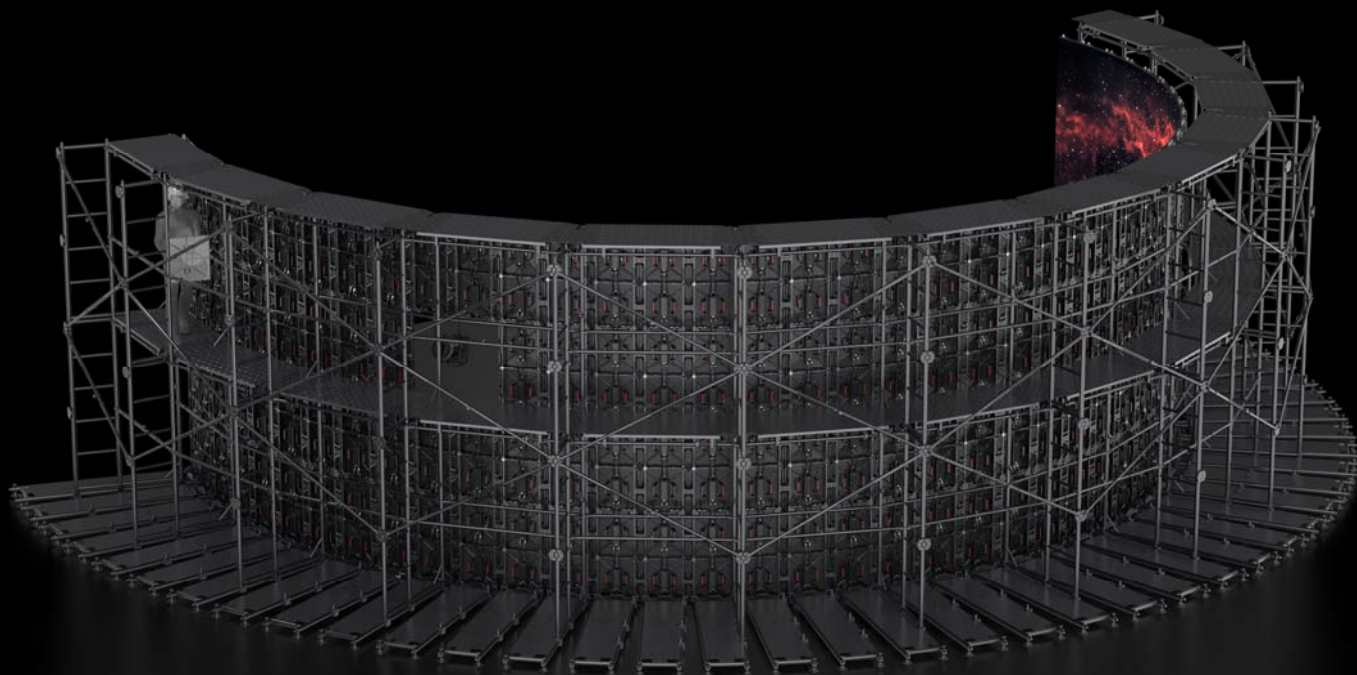
Patented Deep Black Mask

### Patented Deep Black Mask

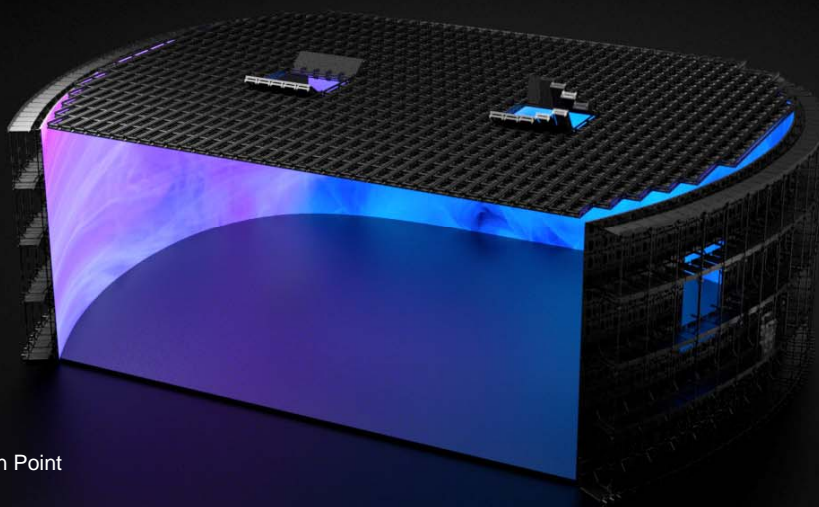
The film-centric panel boasts a fine 2.6 mm pixel pitch and stands out for its exceptional non-reflectivity and patented deep-black masking technology which allows the panel's surface to reach an unprecedented level of darkness.

The advanced 2500-nit brightness represents in an extraordinarily high contrast of 16000:1, making it ideal for ICVFX work. Other adages include flip-chip LED and richer greyscales that enhance the content output and color fidelity.





Access Platform for Safe Operation



Create Access Windows at Any Given Point

### Energy-saving

Keeping mindful of users' carbon footprints, ROE improved the energy consumption capabilities of the LED panel. Obsidian uses 50% less energy than a traditional LED panel at the same brightness (220-watt max / 110-watt average), reducing studio spend and increasing product life. In addition to this energy-saving measure, the indoor panel has an IP63 rating for surface waterproofing, making it adaptable for on-set requirements.

"Virtual production has come a long way in the past few years and we're proud to include Obsidian in the conversation," comments Frank Montero, Marketing Manager at ROE Visual US. "Our end-users were kept in mind every step of the way when designing and ultimately producing this new panel—we're overjoyed to bring this innovative panel to market."

The new, cinematic panel sets a new standard in virtual production

technology, and has already garnered attention for its design, winning the iF Design Award 2024 for Break-Through Structure Design and recently the Red Dot Award: Product Design 2024.

Obsidian will officially be premiered to the public during the NAB 2024 show in Las Vegas, NV at the ROE Visual booth C4535. Paired with RGBW technology, the demonstration will simulate the advancements coming to LED stages globally.



Click this link for more information at [www.roevisual.com](http://www.roevisual.com)



## Unilumin U-shield

Witnessing a super robust LED rental solution  
 Strong Protection · High ROI

### Recommended Products applied with the U-shield Tech

#### UpadIV

- Super Durability
- Ultra Lightweight
- Low Loss



#### URM III

- Super Robustness
- Easy Installation
- High Creativity

The frequent transportation and assembly of rental LED displays often lead to damage and increased maintenance costs, posing challenges for rental clients.

Unilumin's rental solutions address these issues with its innovative U-shield technology. This tech significantly reduces lamp-fall rates and maintenance needs by 90% while boosting turnover rates fivefold. Its durable lamps offer superior thrust, saving clients on maintenance and replacement costs. Additionally, the technology ensures a wide viewing angle with no specular reflection, offering clear images from any angle. Plus high-brightness chips and all-black frames provide high contrast and vivid colors, ideal for HDR display.



U-shield tech is your ideal choice for rental scenarios and will soon be integrated into more Unilumin displays for an unparalleled user experience!

For more information about the related products:

Upad IV: <https://www.unilumin.com/products/rental/upadiv.html>

URM III: <https://www.unilumin.com/products/rental/urm-iii.html>





## Claypaky MINI-B AQUA PX

Mini-B Aqua PX, the newest member of the Mini-B family, makes a splash across the board with its unbeatable mix of flexibility, lightweight design and lightning-fast pantilt movements, not to mention the exceptional cost-performance ratio it offers. Born out of a strong demand from lighting pros for a mini-washlight that's not only compact and agile but can also brave the elements and play with the lighting creativity. Mini-B Aqua PX inherits the core strengths of its predecessors, adding the pixel-to-pixel control of each LED.

[claypaky.com](http://claypaky.com)



## Claypaky ORKIS CYC

Cyclorama lights are the unsung heroes of the stage, bathing backdrops in seamless washes of light and transporting audiences into the heart of the story. But traditional cyclorama lights can be bulky, noisy, and power-hungry. Meet Orkis Cyc, the game-changing cyclorama light from ADB by Claypaky. This innovative wall-washer combines the best of both worlds: theatrical color perfection with FLOW cutting-edge Active Liquid Cooling Technology. Built on a multispectral 6-color HCR LED technology, Orkis Cyc offers a wide selection of colors and precise dimming capabilities. With Amber, Cyan, and Lime added to the standard RGB colors, it ensures accurate color reproduction and flexibility in lighting setups including Tunable White light from 2500K to 8000K. Orkis Cyc isn't just about lighting up the stage – it's about doing it silently and efficiently. Compact and lightweight (<6kg), it's easily installed and adaptable for floor or truss mounting. The internally developed FLOW Technology, Orkis Cyc's Active Liquid Cooling System, effectively reduces noise levels up to 24.2 dB in standard mode, perfect for whisper-quiet operations without sacrificing performance in theatrical productions, concerts, and film studios. Orkis Cyc is the world's first fixture in the entertainment lighting sector with this technology.



[claypaky.com](http://claypaky.com)



## Starway STUDIO 300 HDR

Starway's Studio 300 HDR represents a significant advance in LED lighting with its "Soft Light" panel. Featuring 910 LEDs (red, green, blue, amber, lime and cyan), this projector offers an exceptional colour palette and unrivalled light quality. Whether for television productions, professional photo shoots or live events, it's a versatile and reliable choice. What makes the Studio 300 HDR so unique is its ability to produce not only saturated colours, but also a wide range of calibrated whites, from 1,800°K to 10,000°K, with a colour rendering index (CRI) of 96. This precision makes it an indispensable tool for lighting professionals, guaranteeing exceptional visual results whatever the context. Moreover, the Studio 300 HDR has an aperture angle of 62° (100° Field), allowing light to spread evenly across the stage or set. This makes it an ideal choice for lighting subjects of all sizes with great precision and excellent uniformity. Furthermore, the Studio 300 HDR's robust design and IP65 rating mean it can be used outdoors, offering protection from the elements and ensuring reliable performance, even in harsh environmental conditions.



[starway.eu](http://starway.eu)

## Starway QUASAR

Quasar is the fusion of a motorised RGB wash projector and an ultra-powerful segmented white LED strobe (28 segments). The wash panel, also segmented (14 segments), offers an infinite range of effect possibilities. With a 180° tilt, Quasar offers exceptional flexibility for directing light exactly where you need it. Quasar can be controlled by DMX512, Art-Net or sACN. Its IP65 rating means it can be used in any environment, guaranteeing optimum performance even facing of the elements.



[starway.eu](http://starway.eu)



## Elation Fuze Teatro framing fixture is a master of silent performance



Elation Professional is pleased to offer the meticulous lighting designer the Fuze Teatro, a discreet and refined moving head luminaire that can be used to visually craft any scene without drawing attention to itself. Designed for any application where a noiseless, fully-automated framing fixture with full-spectrum color range and quality is required, the Fuze Teatro is fanless for completely silent operation. Output is notably impressive and the feature set as well. The Fuze Teatro is the first fanless automated luminaire incorporating an additive color engine, which further reduces noise levels compared to conventional CMY systems. The 480W homogenized RGBMA LED array with CRI of 92 offers outstanding color rendering capability, calibrated white points and a full-spectrum color gamut from soft pastels to intense primaries. The carefully-tuned LEDs ensure accurate color reproduction and dynamic whites from 2400 - 8500K while delivering a powerful output of up to 15,000 lumens out of a large 140mm front aperture. The RGBMA LED array is the same color mixing system as found in other Elation Fuze and KL series fixtures for a perfect color match. Ideal for theater and broadcast use, the Fuze Teatro will blend seamlessly in any application where a silent, fully-automated framing fixture with outstanding and compelling color range and quality is required.

[elationlighting.com](http://elationlighting.com)

## Obsidian NETRON IP65

Despite the immense amount of IP-rated entertainment technology on the market, until now, there has been no IP-rated data distribution devices to provide the required infrastructure. The NETRON IP65 range blends the proven chassis and connector technology of Elation's market-leading IP65 Proteus range of lighting fixtures with the NETRON data platform. Utilizing a custom-designed die-cast body, impact resistant paint, IP ports and touch controls, the NETRON IP65 range provides reliable data distribution for any location that requires dust and moisture protection. Available is a 6-port RDM Splitter (RDM6 IP), 6-port EtherDMX Node (EN6 IP) and an 8-port managed POE switch (NS8 IP).



[obsidiancontrol.com](http://obsidiancontrol.com)



## ETC announces major update to Hog 4 Operating System with v4.0

ETC announces the release of Hog 4 version 4.0 software. Enhancements include significant improvements to color handling and Hog 4's Color Picker, a new 'Record Defaults' function, and Fixture Builder upgrades. For color handling, v4.0 represents a major overhaul of the color mixing system used in Hog 4 OS. Substantial changes have been

made to the fixture library, color picker, gels, palettes, effects, plots, pixel mapping, and the playback of color. All color mixing systems including native HS, xyY, CMY, and all additive color engines are now fully integrated and supported by the color system. Additionally, Hog 4 OS v4.0 features a new Color Picker window with a tabbed interface that features a wide variety of controls for quickly and seamlessly mixing color across all fixture types. A new "Color Mix" preview column has been added to the output window and editor windows, indicating the color being output by color mixing fixtures. In addition to the color system rework, v4.0 includes a number of other improvements. Record Defaults provides operators with a quick and simple way to establish default function values for fixtures by using modified values in the programmer. Version 4.0 is compatible with all generations of Hog 4 hardware. This major release introduces significant improvements to the OS.



[etconnect.com](http://etconnect.com)

## ETC PAR jr

ColorSource PAR jr is the newest addition to the affordable line of ETC fixtures that has become a staple in venues around the world. A perfect complement to Spot jr, PAR jr boasts a similar feature set and includes a four-color red, green, blue and lime array. If you're looking for a flicker-free fixture for broadcast, concert venues, worship services, or live TV, look no further than PAR jr. The fan-free, convection cooled design makes this luminaire ultra-quiet. And at nearly half the weight and half the price of a full-sized ColorSource PAR, PAR jr is ideal for venues of every size. Offering stunning colors and precise dimming, this wash light is available in two array options. The Original array provides subtle pastels and beautiful white light to enhance skin tones. While the Deep Blue array is for anyone needing more saturated, dramatic colors. Like all

ColorSource fixtures, PAR jr includes ETC's color integrity technologies so you can be sure the colors you set in rehearsal are the same colors you see during the show. This includes thermal droop compensation and comprehensive factory color calibration. ETC offers an industry-leading 5-year warranty on the entire fixture, and an astonishing 10-year warranty on the LED array.



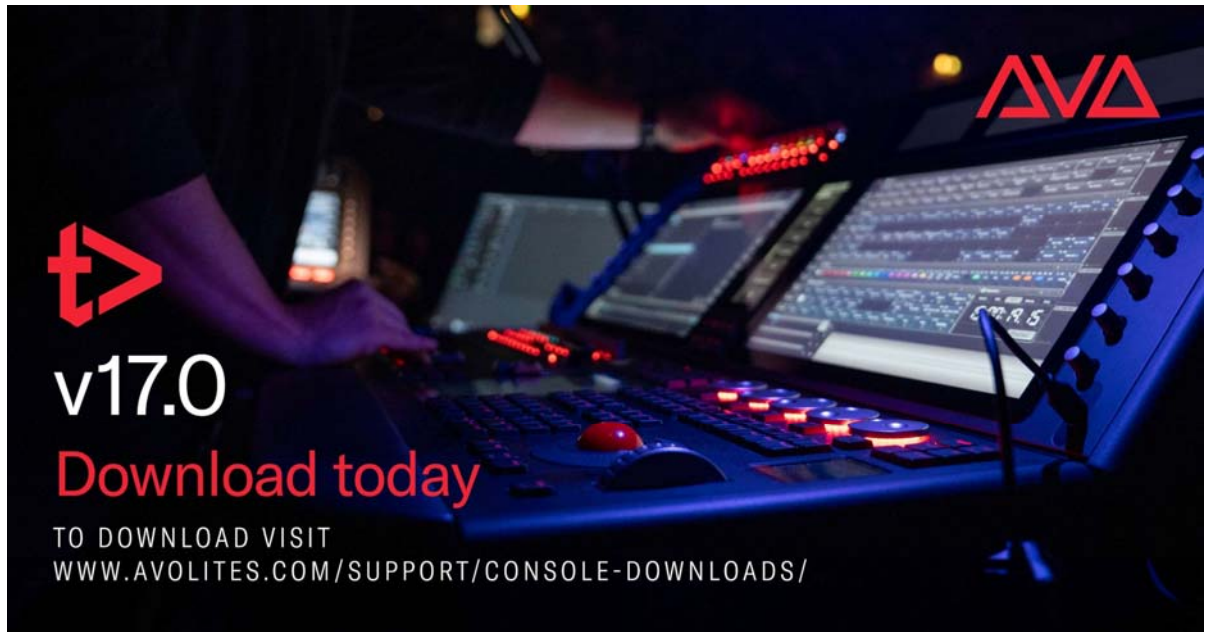
[etconnect.com](http://etconnect.com)



## Avolites Titan version 17

Titan version 17, the latest of our popular lighting control software, will be released on 19th March and running on all the consoles on the Avolites stand. The main focus of v17 has been to greatly enhance the user experience and to further optimise performance, which will allow for a greater experience on larger shows as well as during longer programming sessions. This will be

followed closely with a new version of our remote app, for both Android and IOS. As part of the enhanced UX users will notice improvements with colour picker, personality builder, cue list macro target console option, convert between hardware trigger and item trigger and much more. The full performance, feature updates and bug fixes can be found on Titan v17 Release Notes, available at [Avolites.com/support/downloads](http://Avolites.com/support/downloads).



## Eliminator Lighting Bubbletron EXL GO

Capable of generating huge clouds of bubbles that rise quickly into the air, the new Bubbletron EXL GO from Eliminator Lighting is an easily portable bubble machine featuring a high capacity internal battery. Allowing the creation of fun bubble effects any time, any place, with no cables required, this compact and easy to use device is ideal for a wide range of uses from parties and special events to stage productions and photo shoots. Building on the success of the original Bubbletron XL, this new model offers the same impressive bubble output but combined with the added convenience of battery-powered operation. It features two bubble wands paired with two high power fans that create hundreds of bubbles per minute and propel them up into the air so they travel further and last longer. The machine features a 2-liter tank capacity and a 16ml per minute fluid consumption rate, which allows for approximately two hours of continuous operation without a refill.



[adj.com/bubbletron-exl-go](http://adj.com/bubbletron-exl-go)



## Alfalite UHD Finepix LED panels

Alfalite, Europe's only LED display manufacturer, is pleased to announce the market launch of the new Alfalite UHD Finepix AlfaCOB® fixed installation LED panels with pixel pitch from 0.6 to 1.8mm. These panels - manufactured at Alfalite's facilities in Huelva (Spain) - are a completely new mechanical and electronic design of their predecessors Alfalite UHD Finepix. One of the main new features is that they are manufactured with AlfaCOB, an evolution of the brand's successful ORIM® technology, for mounting on MicroLED or MIP (MiniLED in Package). The new AlfaCOB protection gives these modules a longer lifetime (>100,000 hours), a lower failure rate (PFR<5 PPM/year), an outstanding horizontal and vertical viewing angle of 175 degrees, as well as higher contrast, colourimetry and image uniformity.



[alfalite.com](http://alfalite.com)

## WORK PRO Aulum Series



Part of Equipson's WORK PRO brand, the Aulum Series includes two acoustic enclosures - AL 1003 F and the AL 503 M. Both are cylindrical in shape and offer 360° horizontal and 120° vertical sound dispersion, with a frequency response of 90Hz -18KHz.. The AL 1003 F is designed for ground installation and looks perfectly at home in a flowerbed or on a patio. Made from aluminum and with an IP65 protection rating, it can easily withstand rain and spray from garden hoses. Designed to offer omnidirectional coverage, the versatile AL 1003 F has a 2.5" woofer and can work in low impedance installations with a power handling of 10W @ 8Ohm and high impedance set ups where it offers 10W to 70/100V line installations. For landscaped areas where a wall mounted enclosure is more suitable, the Aulum Series offers the AL 503 M, which also has an IP65 protection rating. This stylish enclosure has a 2.5" woofer and can also work in both low and high impedance modes with the same 10W power handling capabilities as the AL 1003 F. Both enclosures are equipped with warm white 6W LED lights with a colour temperature of 3000K, powered by 12v DC. This clever addition ensures that the enclosures not only deliver great audio but can also help illuminate and add ambience to specific areas of an installation.

[workpro.es](http://workpro.es)





## **buynsellAVL.com** is the easy step to taking your AV sales online with your own e-commerce store

Unlike the usual Pro Audio/Video/Lighting marketplace websites, buynsellAVL.com is not a strictly "used-gear" site. Ideal for brands and distributors to have a very affordable online store for directly sourcing the interest of new customers.

*Pay 0% Commission on all sales*

*Sign up is free  
No payment required*

*Create your own online store  
Personal or Business account*

*Buyers can contact Sellers directly  
via email, messaging apps, mobile*

*List up to 4 images per post*

*List as New or Used*

*Link a product or demo video*

*50 days visibility for free listing  
100 days visibility for paid listing*

### Latest items

Sell



HARMAN

ULTRAHD AUDIO

Plug & Play

USB Type-C

Podcaster Essentials Bundle

1 month ago

\$399.00

Sell



Sennheiser Momentum True Wireless 2 (75th Anniversary)

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