

ETA ENTERTAINMENT TECHNOLOGY ASIA

For The Technical And Production Professionals in Asia



LDI 2023: Entertainment Solutions Galore

JANUARY 2024

NEWS:

One Systems Coalesces a Sonic and Visual Odyssey at WATERZONIC 2023

INNOVATION:

Martin ERA 700 Performance IP Moving Head Offers More Tools for Challenging Lightshows

LIVE:

Unveiling Sonic Splendor at the Bacardi NH7 Weekender

W W W . E - T E C H A S I A . C O M

eos A P E X

The luxury of complete control.



ETC's flagship line of lighting control consoles offers a sleek control interface engineered for your comfort and customization. With generous programming surfaces and the power to run complex rigs, Eos Apex is the ultimate hands-on, professional workspace – powered by the ultimate control platform.

etcconnect.com/Eos

CONTENTS



LIVE:

64 AUSTRALIA: Novatech Achieves Stunning Results within Strict Limitations for Now or Never Festival

IN THIS ISSUE VOL 25 ISSUE 01 JANUARY 2024

04 FIRST WORDS

06 NEWS

37 VIDEO FILES

ALEX COLUMN

38 Beam Steering

40 ENNOVATION

SPOTLIGHT

48 LDI



LIVE

68 INDIA: Unveiling Sonic Splendor at the Bacardi NH7 Weekender



Wishing everyone a joyous New Year! The ETA team extends heartfelt wishes for a year filled with fulfillment and success. In the vibrant month of December 2023, the LDI Show in the USA drew crowds of enthusiasts eager to witness the unveiling of cutting-edge technology and state-of-the-art entertainment equipment by renowned brands. Whether or not you were able to

attend in person, fear not – our comprehensive 16-page report is here to keep you well-informed.

Dive into our Live column, where we showcase two remarkable projects. One delves into Novatech's stellar contribution to the inaugural Now or Never festival, where this full-service production rental company elevated performances from artists around the world with breathtaking visuals and concert-grade audio, featuring the exceptional L-Acoustics loudspeakers. The second project spotlights Sound & Light Professionals, masters of crafting tailored soundscapes, who enchanted audiences at the Bacardi NH7 Weekender with audio magic, also incorporating the brilliance of L-Acoustics loudspeakers.

Thomas Richard Prakasam
Publisher / Editorial Director
thomas@spinworkz.com



Ram Bhavanashi
Editor, India And Middle East
ram@spinworkz.com



Julie Tan
Admin & Circulation
admin@spinworkz.com



Elton Noronha
Features Editor
elton.s.noronha@hotmail.com



Hazel Gundaya
Design / Layout

PUBLISHED BY



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

OUR COLLABORATORS

Rosalind Tan
Website Management Wizard

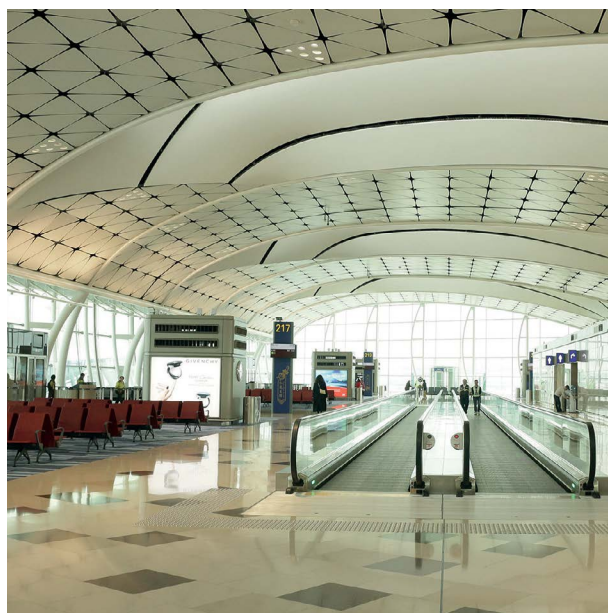
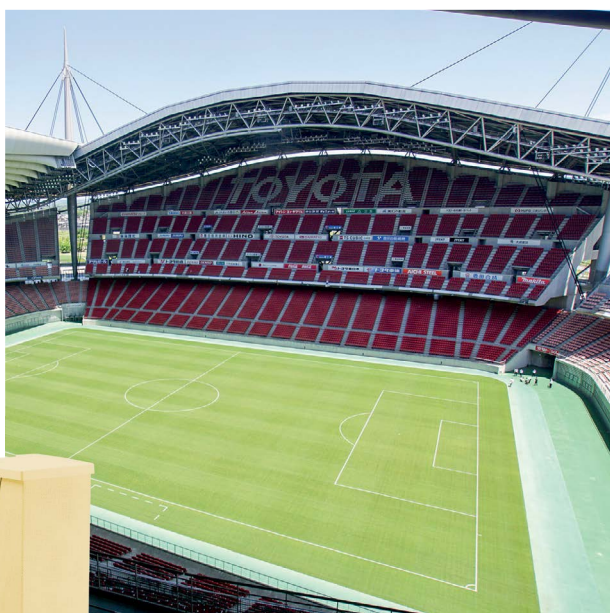
PV Anthony
Server and IT Security Guru

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

Disclaimer : Entertainment Technology Asia is published 12 times a year. All rights reserved. No part of this magazine is to be reproduced, whether mechanical or electronic without the prior written consent of the publisher. Views expressed in this magazine do not necessarily reflect those of the editor or the publisher. Unsolicited contributions are welcome but the editor reserves the discretion to use them. Whilst every care is taken to ensure the accuracy and honesty in both editorial and advertising content at press time, the publisher will not be liable for any inaccuracies.

Please be informed that products and company names mentioned in this publication may be protected with tradenames, trademarks or registered trademarks of their respective owners. Our non inclusion of such symbols is not an indication of us not recognising the copyright but rather to have a common look across our articles. Misuse of tradenames, trademarks or registered trademarks is strictly prohibited. It is the obligation of our readers to check if company names and products are protected with tradenames, trademarks or registered trademarks.

FOCUSSED SOUND. EVERYWHERE.



Pseries

iD INSOURCE
DEFINITION

STM Scale
Through
Modularity

Characterised by high output, precision directivity and a compact, unobtrusive form factor, NEXO loudspeaker systems excel in a range of applications. Installers and services providers enjoy plug and play amplification and processing solutions, intuitive system design software and world-class support from a highly-experienced engineering team. Find out more at nexo.sa.com

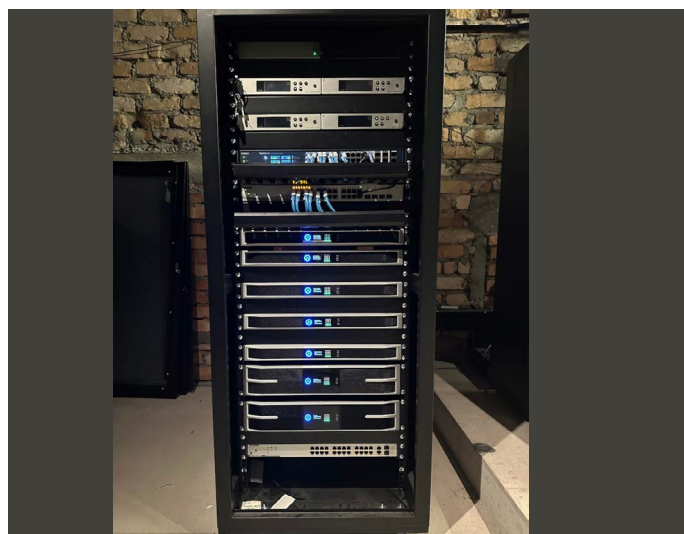
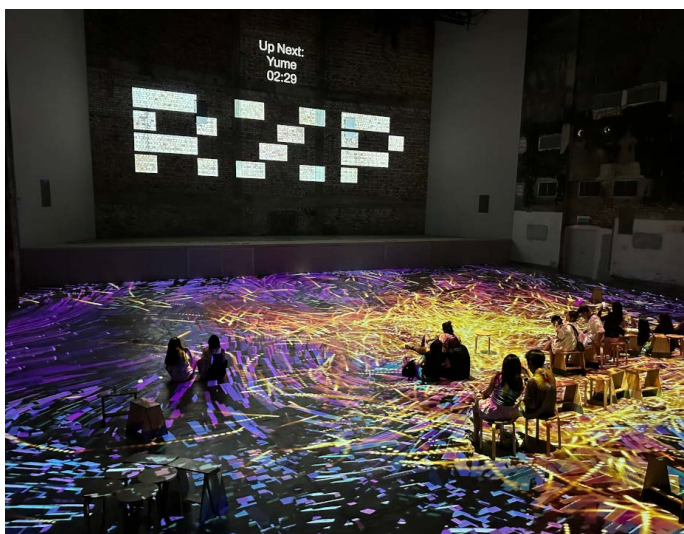


Thinking. Inside the box.

NEXO

A
Yamaha
Group
Company

Reopening of Community and Cultural Hub Made Possible with LEA Professional



MALAYSIA: Kuala Lumpur is a city steeped in rich history and tradition. Originally a small hamlet of just a few houses and shops, it stands proud as the capital of Malaysia and is home to 1.8 million people. At the heart of Kuala Lumpur lies a new community and cultural hub, REXKL. Designed within what was once the legendary Rex Theatre, which twice shut down due to fires in 1972 and again in 2002, the hub opened in September 2023 as a part of a mission to rejuvenate the theatre in a forgotten part of the city.

The two-story, 60,000 sqft building features retail shops and restaurants in the basement and a picturesque bookstore and exhibition space on the upper floor. Shin Tseng and Shin Chang, the creative entrepreneurs who helped reimagine the Rex, wanted the new space to be a unique, immersive performance venue. Featuring the original theatre's brick and exposed structure, it is now a modern, industrial marvel that hosts performers and exhibitors. With a desire for the space to captivate guests with vivid visuals and audio, the venue deployed LEA Professional

amplifiers in the **REXPERIENCE centre (RXP)** within REXKL as part of its grand reopening and reinvention.

The venue management team's broad vision for immersive exhibitions meant the new RXP AV system needed to be flexible enough to meet the most demanding audio needs of musical and visual performances, while also incorporating more basic corporate events and DJ shows. "The multidimensional nature of the events held in the RXP venue meant we needed to recommend a system that we could scale and adapt as needed," said Eugene Yeo, general manager of **Acoustic & Lighting System**. "We've had a lot of success with LEA products and felt they were a perfect fit for RXP because they could provide the power, performance, and reliability needed."

Set in a former film theatre, RXP reimagines the legacy of the Rex cinema space by bringing in a new, cutting-edge digital art experience. As the "first immersive venue in Malaysia", the venue team wanted to get the details right and spent over a year planning, working with the participating visual artists, and designing the



PALS
Asia

LED
CHINA
2024



Meta Esports
Show 2024

**Professional Audio,
Lighting & System Asia 2024**

26-28 February

Shenzhen (Futian) Convention &
Exhibition Center

**Your Ultimate Hub for Staging –
Professional Audio, Lighting and LED Displays, All in One!**

3 Shows, 2,000 brands, 80,000 sqm of exhibition space

**Why
Join Us?**

- Co-located with LED CHINA, the largest LED expo with 19-years expertise! Experience the synergy of audio, visual and LED displays in one single place.
- Explore the world's biggest production hub for LEDs, stage light and sound – the Greater Bay Area, China
- Get factory tours with our exhibitors right in the city after the show
- Empower your creativity with the most reliable products and the newest AV, LED solutions

VIP
NETWORKING NIGHT
— PALS Asia 2024 —

Join LED CHINA VIP NETWORKING NIGHT!
Business | Drinks & Appetizers | Festival Vibes
Hundreds of senior decision-makers will gather!



Register as VIP

www.PalsAsia.com / www.LEDChina.com

spatial audio tracks. The immersive environment includes 18 projectors mapping visual elements on the walls and floor, while the spatial audio design required that the venue be fully modelled in 3D.

18 x compact two-way loudspeakers, backed by 4 x subwoofers, are strategically located throughout the RXP to provide the spatial audio listening experience. To help meet the range of audio needs, Acoustic & Lighting System chose a combination of 2 x **LEA Professional Connect Series 1504D** and 5 x **Connect Series 704D** for the digital art experience. The 1504Ds power the subwoofers, while the 704Ds support the two-way loudspeakers. Both models include 96 kHz-capable Dante and AES67 connectivity options.

The high-power IoT-enabled four-channel 1504D provides 1,500 watts per channel into 2, 4, and 8 ohms and 70Vrms and 100Vrms. The CS1504D includes advanced DSP with 96 kHz linear phase FIR crossover filters, acoustically transparent look ahead RMS and peak limiters, 32-bit floating-point DSP with built-in sample rate converters, and two Smart Power Bridge channels.

Conversely, each 4-channel 704D delivers 700 watts per channel. It supports high-Z (70V or 100V) and low-Z selectable by channel, giving the venue much-needed design flexibility and enough additional capacity to support future expansion efforts.

The Connect Series delivers an amplifier family that features cloud connectivity, a significant benefit for anyone maintaining the systems. With **LEA Cloud**, AV teams can remotely control and monitor the amplifiers regardless of the location or time of day. Whether from within the REXKL or on another continent, controlling the Connect Series amplifiers from afar helps teams work more efficiently, reducing travel and saving time and money.

For larger, mixed-used spaces like REXKL, LEA Professional's **SharkWare software** allows integrators to work both in offline design and online mode on a systems amplification configuration to ensure a more seamless, accessible, and flexible user experience with all LEA Professional Connect Series amplifiers. Available for both Windows and Mac, Sharkware includes features such as amplifier grouping, offline design, granular user access control levels, locked speaker tunings, and a graphical EQ. Sharkware also incorporates key features from LEA Professional's existing WebUI tool, allowing users to monitor the status of every amplifier connected to the network and the status and performance of individual channels. In addition, the software allows users to view and adjust channel settings such as input settings, signal generator, crossover, equalizer, limiter, and load monitoring for all LEA Professional Connect Series amplifiers.

The REXKL has become a destination point for locals and a must-see spot for tourists. It's also a state-of-the-art performance centre delivering the highest-quality audio for every event.

"Since opening, the "Other World" immersive experience in the RXP has really put the audio system to the test," said Brian Pickowitz, VP of Marketing at LEA Professional. "Creating an art exhibition that sparks discovery and inspiration among art lovers and bringing the venue back to life in such a unique way is incredibly meaningful and one we were proud to be part of."

LEA Professional



MORE FLEXIBILITY FOR THE COLETTE SERIES

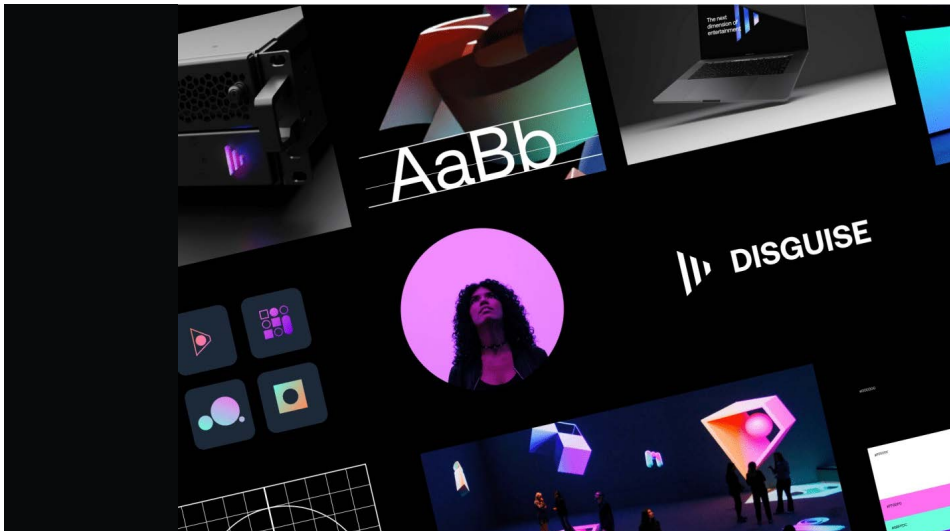
BA 20 + CMC 1 KV + MK



The instrument adapter with miniature amplifier and MK capsule:
Uncompromising sound for stage and studio.

schloesser@schoeps.de • +65 8777 2944

Disguise Redesigns Product Offering and Brand Language to Set New Industry Standards



GLOBAL: The world is about to embrace a new era of visual experiences that spans from the revolutionary live spectacle of massive musical acts to the stunning cityscapes of the twenty-first century. A creative surge of imaginative immersive installations that are taking the world by storm and the ground-breaking new filmmaking methods of virtual production and real-time xR broadcast studios are gradually taking over theatres and screens as signs of this amazing new evolution in entertainment.

To recognise the new era, Disguise has created a bold new appearance for its brand and, more importantly, a new way of speaking about itself and its product offering. In doing so, the company is hoping to set the standard for the brand-new entertainment industry.

Users can expect a new brand design language on Disguise merchandise which is influenced by the Disguise platform's holistic character as a single, potent, integrated system that interfaces with other important entertainment-related technology.

"We are the operating system for the future of entertainment. It's reflected not just in the latest versions of our software and hardware but also in our new Disguise Cloud software that enables global collaboration on the biggest and most complex 3D and real-time productions. This simple, seamless workflow for pixel-perfect delivery of your vision no matter where you are in the world is the foundational truth which underpins our work..." the brand said in their press release.

The new Disguise logo marks the brand's evolution and thus, has removed the legacy design elements. "The transition to an uppercase font signifies a bold shift in attitude and presence, reflecting our expertise in creating new realms of possibility in media and entertainment."

Continuing, "The incorporation of functional geometry is inspired by the three-dimensional perspective of the LED panels on which much of our technology operates, ensuring a clean and dynamic spatial aesthetic. The sharpened edges embody the precision and sturdiness of our leading products."

The updated logo goes beyond just the visual and is meant to represent Disguise's dedication to excellence, creativity, and functionality in the next generation of entertainment.

The Disguise Ethos

The Disguise ecosystem of software, hardware and services is at the very heart of it all as the industry standard platform for visual experiences of today and tomorrow. The company is calling it the next dimension of entertainment because it hopes to break through into new aspects of space, time and scale, compelling and delighting a new generation of audiences at every step.

A New Brand Equals a New Offering

Together with the launch of its new brand, Disguise has supercharged its services offering with Meptik to complete the Disguise ecosystem. "We believe that the new era of visual experience demands a new kind of support system - one that fuses creativity with technical knowledge at every stage of the process to deliver groundbreaking visual experiences for audiences. From creative vision to final pixels through strategy, design, spec, install and optimisation, Disguise has built one global team to support you. Meet Meptik: our worldwide creative and build team - providing unparalleled creative and technical services."

To experience the rebranding in all its glory, visit the newly redesigned website. Delve deep into Disguise's products and solutions for every industry or speak to an expert Disguiser about your vision. Disguise is also offering the ability for users to sign up for a remote learning course in any discipline.

As Disguise concludes, "Welcome to the next dimension of entertainment. It's going to be an amazing ride."

Disguise

RIG IT EASY NEW CHAIN MOTOR LPL

Motor LPML250

lifting capacity 500 kg
self weight 12 kg

Motor LPL500

lifting capacity 1000 kg
self weight 23 kg

Motor LPL1000

lifting capacity 2000 kg
self weight 46 kg



...YOUR ONE-STOP SUPPLIER



GIS

swiss lifting solutions

 since
1957

GIS AG | swiss lifting solutions | CH-6247 Schötz | Phone +41 41 984 11 33
tel@gis-ag.ch | www.gis-ag.ch

RAC Delivers L-ISA Immersive Audio Experience for 'Daughter of the Party' Opera



CHINA: Originally staged in 1991 as an ode to the founding of the People's Republic of China and the Chinese Communist Party (CCP), *Daughter of the Party* has been performed more than 600 times since. Thirty years later, as part of the CCP's centennial, the National Centre for the Performing Arts (NCPA) restaged the opera in 'The Giant Egg', its ellipsoidal, titanium shell home. The theatre, which is built on 165,000 square metres of land in the Xicheng District of Beijing, is the largest theatre complex in Asia. The *Daughter of the Party* was performed in the 2,207-seat main Opera Hall, ten stories underground.

NCPA performers Lei Jia and Liao Changyong, who starred in the production three decades ago, reprised their original roles. Along with these familiar faces in the lead roles, the NCPA asked the original director Wang Jun, to lead the production. Wang was honoured to lead the cast again, now with a fresh and modern take

on its stage design and audio-visual production, as the NCPA brought modern technology, including spatial audio mixing, to the celebratory production.

The story is set in 1935 and follows the journey of a female CCP member in the mountains of China's Jiangxi Province. The performance features nationalistic songs sung in classic Chinese opera style, in which a deep wealth of music is expressed through a range of singing techniques derived from local folk music.

"The reboot of this masterpiece is not just a simple restoration; it needed to contain greater innovation," explained Wang.

Fusing the musical format and creative drama approaches from Western opera with traditional Chinese songs, *Daughter of the Party* is unique. To bring an even more innovative approach, retaining the realism of the performance while adding clarity and detailed nuances of emotion,



Seamlessly integrated into the L-ISA Controller, BlackTrax infrared sensor system delivered real-time tracking of opera performers for Daughter of the Party.

the production team called upon sound engineer He Biao, who had recently implemented **L-ISA Immersive Hyperreal Sound** in the same NCPA Opera Hall for the national opera Minning Town.

He Biao oversaw every aspect of sound design for Daughter of the Party, from the design of the immersive configuration to ensuring that a BlackTrax infrared sensor system for real-time tracking of opera performers would be seamlessly integrated into the L-ISA Controller. He Biao knew that this combination would elevate the opera experience to new levels and meet the delicate nature of vocal speech in a theatre space that the production required. "A powerful immersive soundscape allows the audience to empathise with the characters and be moved by the story," said He Biao.

The L-ISA configuration consisted of a main scene system of five hangs of 8 x L-Acoustics Kara each, spread across the opera hall's stage. In-fill

consisted of two hangs of 3 x A10 boxes, while 2 x KS28 subwoofers provided low-frequency extension. Four sets of Syva and Syva Low were hidden behind the stage curtains to deliver on-stage monitoring for opera performers. The system was delivered by Beijing Dadong Huahan Audio Visual Equipment Co., Ltd and received technical support from local L-Acoustics Certified Provider Distributor, **Rightway Audio Consultants**.

The anniversary performances of Daughter of the Party delivered an engaging visual and audio experience, immersing theatre audiences over two weekends. "The high-end and advanced technology L-Acoustics offers allowed the audience to ignore the presence of a technical system, detach themselves from reality, and fully engage in the story as it unfolded right before their eyes," concluded He Biao.

L-Acoustics

Jai Bhawani Sound Raises the Bar with Acquisition of Gujarat's First Adamson E15 System



INDIA: In a groundbreaking move that is set to redefine the live sound experience in Gujarat, Jai Bhawani Sound, a leading event equipment rental service provider based in Ahmedabad, has recently acquired the first Adamson E15 system in the region. This strategic investment includes the acquisition of 18 units of the E15 3-way true line source line array modules, 12 units of the E219 dual 19" subwoofers, and 12 units of S10 2-way full-range sub-compact line array modules. To power this impressive loudspeaker system, the rental company has also added multiple units of the powerful yet energy efficient PLM20K44 power amplifiers from Lab.gruppen.

Commenting on the strategic move, a senior member of the management team at Jai Bhawani Sound, emphasized the company's commitment to staying at the forefront of technological advancements in the live sound industry, stating "Our decision to invest in the Adamson E15 system is driven by our unwavering dedication to providing our clients with the best possible audio experiences. The E15's technical prowess, including its exceptional clarity, wide dispersion,

and versatile configuration options, aligns perfectly with our vision for delivering top-tier sound quality in every event we undertake."

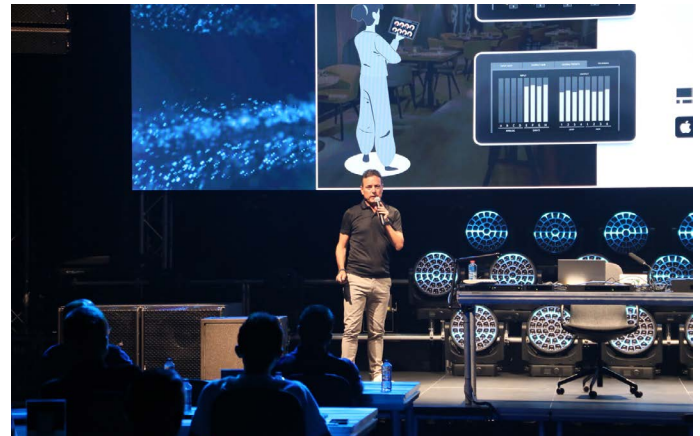
Further highlighting the unique selling propositions (USPs) of the Adamson E15 system that influenced their decision, they proceed to share, "The E15's precise vertical and horizontal coverage, combined with its ability to handle high sound pressure levels, gives us the flexibility to address diverse venue requirements effectively. This is crucial for us as event professionals, as we often encounter varying acoustics and audience sizes. And the ability to seamlessly integrate the E219 subwoofers and S10 line array modules within any event setting allows us to enhance the overall sonic landscape, and ensure a truly immersive and impactful auditory experience."

Jai Bhawani Sound's purchase of their new Adamson rig was facilitated and fulfilled by Stagemix Technologies LLP – the official distributors of Adamson professional products in India. And the company expressed excitement about the partnership, stating, "We are thrilled to have been part of this significant milestone for Jai Bhawani Sound. The Adamson E15 system is an industry-leading solution, and we believe it will elevate the live sound experience in Gujarat to unprecedented heights. Our team worked closely with Jai Bhawani Sound to ensure a seamless integration of the E15 system into their existing setup, providing comprehensive training and support to maximize its potential."

Jai Bhawani Sound

StageMix

Procom Middle East Hosts DAS Audio's ALMA Software Launch and Training Event



DUBAI: Procom Middle East hosted a training event and regional launch of ALMA by DAS Audio, at its state-of-the-art facility in Dubai. The event showcased ALMA as well as Procom's strong partnership with DAS Audio.

The event focused on the capabilities of ALMA's software that enables an ecosystem of networked management and control of systems and processors. Developed in-house by DAS Audio for installations as well as tours, ALMA aims to power the next generation of speakers and control systems such as **ARA**, DAS Audio's next generation of line arrays. With a graphically advanced UI that allows users to manage the systems instantly and intuitively, it reduces system configuration time and helps users achieve their goals quickly, effectively and reliably.

Esteemed attendees from various regions, including Romania, Albania, Bosnia, Poland, Jordan, Georgia, Kazakhstan, and Turkey, along with key representatives from DAS Audio, participated in experiences and in-depth insights into ALMA's multifaceted functionalities.

"As the hosts of this event, we are delighted to have collaborated with DAS Audio in unveiling

ALMA. We are very excited about the extended opportunity it brings to our customers, as it enables DAS Audio to deliver an end-to-end audio solution for venues" expressed Rami Harfouch, business development manager at Procom Middle East.

ALMA's software represents a significant leap forward in line array technology. The combination of ARA's advanced hardware features and ALMA's powerful software tools allows for unprecedented control and customization of sound reinforcement systems. With IP communication, users can easily monitor and adjust global EQ in real-time, without using any external processors enabling them to achieve optimal performance.

"This successful collaboration highlights our dedication to fostering innovation and excellence within the industry and also highlights the opportunity in the Middle East," added Manuel Peris, CEO of DAS Audio. "We are proud to have played a significant role in empowering our partners and clients to embrace the forefront of technological advancements showcased during this remarkable event."

Procom Middle East

Clear-Com Appoints Dennis Low as Technical Support Associate for APAC Customers



SINGAPORE: Clear-Com's dedication to supporting their customers with local support team members is further enhanced with the appointment of Dennis Low to its Singapore-based team as a Technical Support Associate. This strategic investment bolsters Clear-Com's ability to provide the highest level of support for customers in the Asia-Pacific region, where it has technical support engineers in place across the region, primarily based out of Singapore and Beijing.

Over the past two decades, Dennis has worked in a wide variety of roles in the audio industry, as a sales engineer/technical support for SMX Electronics, an entrepreneur and distributor (as co-founder of Big Knob, Malaysia), and as a House of Worship AV Technician at St Andrew's Cathedral, and the Full Gospel Assembly in Singapore.

"Having taken on the role of AV department head and leading teams of volunteers in my previous

roles, I believe in empowering people with the right skill sets so they do not feel overwhelmed by the technicalities of a product. That allows them to focus on what's important, which is to use the tools necessary to support their business goals. Intercom is a powerful tool when properly implemented, and I look forward to sharing my knowledge with Clear-Com end-users as part of my new role" Dennis acknowledged.

Clear-Com "stands apart from its competitors in its deep commitment to their customers, offering industry-leading capabilities and support/service". The dedication to local support via the technical team in the Asia-Pacific region is no different. Dennis will bring a wealth of experience and a deep understanding of the support that Clear-Com's new and existing customers require. Fluent in English, Malay, and Cantonese, Dennis holds a Diploma in Audio Engineering from the School of Audio Engineering Kuala Lumpur and a Diploma in Information Technology from the Asia Pacific Institute of Information Technology.

"Having a technical support associate with the background Dennis has will provide existing and future Clear-Com customers greater confidence that they will always be well supported by a local team of experts," noted Peter Fong, Clear-Com director of Sales, APAC, adding that Clear-Com is also investing in its APAC Partners to ensure each has at least one fully trained technical sales engineer.

Clear-Com

Riedel Adapts APAC Business Structure to Accommodate Further Growth



From left to right: Erik Miehs, regional sales director, Riedel; Chris Johnson, director Oceania, Riedel.

ASIA: Riedel Communications has expanded its leadership in APAC to better align with market needs and position itself for continued success in 2024 and years to come. With significant growth in sales and team size, the company will divide the APAC region into two separate teams — Asia and Oceania — to reflect its commitment to a full-service presence in Australia and enhance customer relationships through more focused and direct sales and support services.

Effective since October 2023, Chris Johnson has been promoted to the role of director Oceania, overseeing Australia, New Zealand, and surrounding countries. With almost two decades of experience in broadcast and live events, Johnson has been instrumental in leading the region to new heights since joining Riedel in 2016.

“We’re really proud of what we’ve been able to accomplish so far in Australia and New Zealand,” said Johnson. “Our success is the result of a great team and our decision as a company to work locally and be close to our customers. We believe that close customer relationships are critical, especially as the broadcast and events industries

are undergoing so much technological evolution. Having truly local technical support, service, and operations allows us to further improve our full-service offering across both our Product and Managed Technology divisions throughout Oceania.”

To bolster the Product Division business in the region, Erik Miehs will assume the role of regional sales director, starting Jan. 1, 2024. With close to a decade of experience at Riedel, Miehs brings a wealth of technical and managerial knowledge to his new position, having previously served as the Europe system consulting manager and most recently as sales manager ANZ.

“I’m proud to be playing a part in writing the next chapter in Riedel’s strong 15-year history in Australia and New Zealand,” said Miehs. “I’m thrilled to take on the new role and continue our team’s expansion in the Oceania region.”

Guillaume Mauffrey will continue to lead Riedel’s Asian business units as sales director Asia with an increased focus on developing major markets such as China, Japan, and Southeast Asia. Here, he can rely on a strong management team of regional general managers, with Peter Chen (China), Vincent Lambert (Japan), and Marion Dimayuga (Southeast Asia).

“Our new organizational structure reflects the massive growth we’ve seen in both Asia and Oceania,” said Daniel Url, CCO, Product Division. “We are very pleased that we can entrust two very experienced colleagues, Chris and Guillaume, with leading these important regions.”

Riedel Communications

Legendary Studio Specialist is “Preferred Audio Brand” for South Korean Musicians



SOUTH KOREA: Neumann.Berlin's Miniature Clip Microphone System (MCM) has been making waves since its release, and musicians around the world have experienced how the **MCM** is raising the bar of electret capsules with its superior audio quality and its reliability. With acclaimed artists like Jang Ha-eun (classical guitarist), Mellow Kitchen (saxophonist), and KoN (violinist) joining the ranks of MCM users, Neumann's MCM hopes to set new standards in the world of microphones.

The Neumann MCM was a game-changer for guitarist Jang Ha-eun

Jang Ha-eun is a popular South Korean singer and classical guitarist who has made a name for herself on the international stage. Most notably, she was one of the finalists on the popular South Korean talent show “Superband 2” and performed at Carnegie Hall in New York with the Union City Orchestra. Her collaboration with prestigious orchestras such as the Seoul Grand Philharmonic Orchestra and the Bolshoi Theatre National Opera Orchestra has further showcased her exceptional guitar skills and musical talent.

As a musician, sound quality is of utmost importance to Jang Ha-eun, and the MCM has

solved some of the greatest challenges that she often faced on stage. “I always aim to achieve the best sound quality for all my performances. However, dealing with challenges like feedback issues and the hassle of setting up complicated equipment makes it hard to deliver a seamless performance. This is why my experience with the Neumann MCM microphone was a real game-changer,” shared Jang Ha-eun.

“It delivers a well-balanced audio output that captures both the sharp highs and delicate lows with incredible precision. What’s really special about it is how it can add a sense of depth to the sound, creating an immersive experience for the audience. Plus, it is easy to carry around, and you don’t need extra stands or holders to set it up.”



Discovering the Neumann MCM is akin to finding the perfect musical partner

Mellow Kitchen is a South Korean composer and saxophonist who has gained popularity in the mainstream media through his performances in album recordings and at live sessions for famous artists such as Shin Seung-hun, Shinhwa, Epik High, Sistar, Brown Eyed Soul, and Park Jae-jung.

He also appeared in various music programmes across major broadcast networks. With a growing fanbase, Mellow Kitchen held his first solo and sold-out concert in 2019 and released his first full-length album "Beautiful Day" in 2021.

Mellow Kitchen shares his experience using the Neumann MCM: "When it comes to creating the perfect sound, microphones can sometimes fall short. But then, we were introduced to the Neumann MCM and it was truly like a breath of fresh air in the world of sound. It felt like our usual input of 100% effort is giving us 120% in terms of sonic richness. It was like a lightbulb moment for sound quality, elevating every note we played," explained Mellow Kitchen.

"But it wasn't just about volume. The MCM microphone brought out details that we didn't even know existed. It handled nuanced frequencies well and effortlessly balanced the highs and lows. It was like finding the perfect musical partner, and we haven't looked back since."

South Korea's first gypsy violinist performed with the Neumann MCM at an event in South Korea



KoN is a renowned classical violinist with a global presence, having performed at various concerts and music festivals around the world.

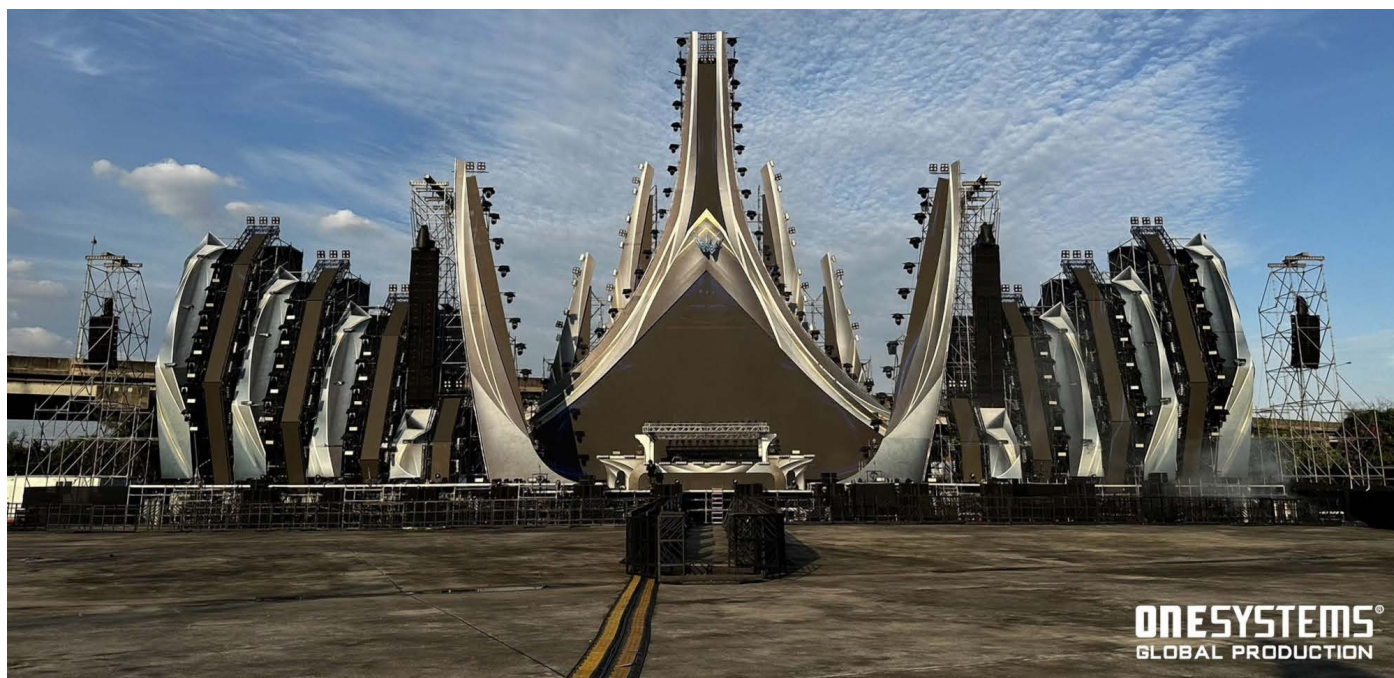
He specializes in a wide range of music genres such as classical, jazz, pop, and tango, alongside pioneering the gypsy violin genre in South Korea. One of KoN's most notable performances took place during the 2022 South Korean presidential election coverage on KBS where he played the violin atop the Lotte World Tower, the tallest building in Korea (555 meters), setting a record for "highest violin performance" in Korea. With a demanding schedule of over 100 performances annually, it is no surprise that he is always searching for the perfect microphone that can help him achieve the most perfect sound.

"What matters most to me as a violinist is how well a microphone captures the instrument's true sound. The MCM stands out remarkably, closely resembling the original violin sound. It's my top choice when performing," KoN explained.

"MCM's exceptional balance across high, mid, and low frequencies suits both the warm and enveloping tone of an old violin and the energetic and powerful tone of a modern one. It preserves the warm texture characteristic of Neumann microphones, akin to recording with a Neumann condenser microphone in a studio setting. Among the microphone options I've used for violin, MCM is undoubtedly the best."

Neumann.Berlin

One Systems Coalesces a Sonic and Visual Odyssey at WATERZONIC 2023



THAILAND: Recognized as more than a just a high-energy music festival, WATERZONIC has carved a niche for itself as an immersive journey, where electronic beats and water elements blend in perfect harmony to create a truly bespoke event experience where revellers dance freely to electrifying beats while being intermittently sprayed with water. And as the 2023 edition of the festival was announced; the organizers promised for this edition to be bigger, bolder, and wetter – thereby building on WATERZONIC's legacy of pushing boundaries.

In the heart of Bangkok, at the vibrant Live Park (Rama 9), WATERZONIC 2023 unfolded as a spellbinding testament to the fusion of nature's elements and cutting-edge technological marvels. This year's extravaganza, held on the 3rd and 4th of November, emphatically upped the ante in creating a harmonious convergence of music and aquatic ambiance, thereby giving birth to an immersive celebration where Mother Nature

herself seems to join the party, reminding attendees of the joy found in the basic elements.

The commitment to pushing boundaries found resonance in the choice of venue - Live Park – which is recognized for its architectural prowess and state-of-the-art facilities. An ideal canvas for WATERZONIC 2023 – Live Park's sophisticated infrastructure and facilities played the perfect host in enchant and enthralling revellers; as the festival curated a diverse range of electronic music genres, showcasing everything from the adrenaline-pumping beats of EDM to the soulful rhythms of deep house. The confirmed lineup featured electronic music heavyweights such as Excision, Said The Sky, R3HAB, DubVision, SikDope, CueBrick, and many more, who swept the attendees away with their unique brand of music and performance.

Ardent fans of WATERZONIC will attest to the fact that a key hallmark of the festival's unrivalled experience is its unwavering emphasis on



production quality. Over the years; the festival's commitment to delivering a visually enchanting performance stage, complemented by state-of-the-art sound systems and intricate light displays, has become synonymous with the event. And in 2023, this commitment remained steadfast, with the organizers entrusting the technical design and commissioning of the audio and lighting production to One Systems Global Production. One Systems Global Production, an acclaimed

solution provider for large scale events and mega productions in the country, was entrusted with the responsibility of translating WATERZONIC's vision into a technological marvel. The challenge was to create a bespoke awe-inspiring audience experience that would elevate the festival to new heights. And backed by a reputation of proven expertise and innovation, the team at One Systems rose to the occasion as they went above and beyond to ensure that immersion was not just a possibility but a foregone conclusion for every attendee.

After thorough assessment of the venue's dynamics and the artists' performance requirements, the team meticulously crafted a plan that integrated state-of-the-art technologies to deliver an ultra-formidable live sound and entertainment lighting architecture that would come to play a vital role in bringing the festival curators' vision to life.

VOYAGER

SIXTY82 DOUGHTY ASIA

- 3 year warrantee
- Rated IP65 for outdoor use
- Lightest chain hoist on the market
1T = 23Kg
- Single fall chain for all models
- Custom lifting height on request

Exhibiting at the ISE in the Fira Barcalona

| January 30 - February 2

| Hall 1 - booth 1C500

CONTACT INFO@SIXTY82-DOUGHTY.COM FOR MORE INFORMATION

Starting off with the audio architecture; and One Systems decided to deploy a comprehensive loudspeaker system from industry leading brand L-Acoustics, with the view to create a soundscape that was not just immersive but distinctly realistic.

The main PA solution featured a total of 32 units of the KARA II line array modules suspended in a stereo hang, with an additional 16 units of the K2 line array modules as outriggers on either side of the main PA system in order to cover the flanks of the venue. Additionally, 8 units of the KARA line array modules were deployed as the frontfill reinforcement solution to cover the audience located directly in front of the stage. This strategic deployment allowed One Systems to leverage the unique coverage and throw capabilities of the KARA II, K2 and KARA modules in their designated roles respectively, while asserting a consistent sonic experience for every audience member, regardless of their location within the expansive venue.

Further enriching the soundscape was a thoughtfully crafted deployment of L Acoustics' powerful subwoofers, which had 12 units of the mighty K1-SB long throw subwoofers as part of the main PA solution, while 36 units of the smaller yet impressively powerful KS28 subwoofers afforded an impactful low-frequency experience for the rest of the audience areas. The artists on stage too were treated to a world-class sonic experience, as team One Systems deployed a total of three pairs of Kara II modules complemented by two pairs of SB-18 subs as the primary DJ monitoring solution, along with a pair of 115XT HiQ high-performance monitors serving as the floor monitoring solution.

This impressive loudspeaker architecture was 'juiced' by an array of L Acoustics powerful yet impressively efficient line-up of power amplifiers; while digital consoles from DiGiCo afforded engineers with complete control over tailoring the overall sound experience.

Complementing the breathtaking soundscape at WATERZONIC 2023 was the visually enchanting lighting design which was made possible through an impressive entertainment lighting infrastructure curated by team One Systems. Spotlighting the use of world-class lighting technologies, team One Systems put together a meticulously crafted and intricately designed lighting rig that included the use of 118 units of Brightly Beam 260 moving heads from Taurus Lighting, 11 units of the Opus H5 hybrid moving heads from Cameo Lighting, 68 units of Cyclone moving heads, 80 units of BAR5 fixtures, 84 units of LED PARs, 98 units of Flandina18 RGBW LED Strip lights, and 44 units of Molefays. Lighting designers were afforded masterful control over this comprehensive lighting infrastructure through the grandMA 2 full-size lighting controller console from MA Lighting – which has proved its mettle as one of the industry's most trusted and dependable control surfaces for entertainment lighting.

As the festival culminated and revellers left the venue with smiles and jubilation; what became distinctly clear is that the immersive environment that the festival offered had emphatically surpassed all expectations – thanks to the collaborative synergy between WATERZONIC and One Systems. The audio design – executed with precision – allowed the beats to resonate with clarity, enveloping the audience in a sonic cocoon; whereas the lighting production – intricate and synchronized with the music – transformed Live Park into a visual spectacle, enhancing the overall sensory experience. And as the festival continues to evolve, pushing the boundaries of what's possible, the 2023 edition of WATERZONIC will likely be remembered not just as a festival but as an immersive symphony that resonated with the hearts and souls of those fortunate enough to be a part of this extraordinary experience.

One Systems Global Production

Be at the Heart of the Live Experience.

Discover the latest venue and live event technology solutions at ISE 2024.



ISE is the world's largest AV and systems integration exhibition. It's your destination for innovation, to connect, collaborate and create. Join us in 2024 and see the future of live event technology.



Fira Barcelona | Gran Vía
30 Jan - 2 Feb 2024

Get your FREE TICKET
Register with code: **entertaintech**

iseurope.org

A joint venture
partnership of



CEDIA

Photo credit: (Right) Gran Teatre del Liceu © Paco Amate.

MediaPro AV's Technical Prowess Reinforces Sports Excellence at the Next Gen ATP Finals 2023



SAUDI ARABIA: Organized by the Association of Tennis Professionals (ATP) and hosted at the iconic King Abdullah Sports City in Jeddah, Saudi Arabia from 28 November to 2 December 2023; the 2023 Next Generation ATP Finals was a men's exhibition tennis tournament for the eight highest-ranked singles players on the 2023 ATP Tour who are aged 21 and under. And while grit, endurance and an uncanny determination to win, made Hamad Medjedovic the undisputed winner of the exhibition; the exhilarating action that captivated the attention and awe of spectators was all thanks to a truly immersive environment that was reinforced by the superior expertise of MediaPro AV's team of dedicated professionals.

MediaPro AV was appointed by Black Orange Live and worked alongside the Wasserman team, as they leveraged the power of state-of-the-art professional entertainment technologies in providing flawless technical reinforcement across audio, video (LED screen and full

processing system), lighting, rigging, intercom communication, automation, laser, projection, SFX and video signal distribution across the venue for this high-paced tennis tournament finale. Additionally, team MediaPro AV also managed all technical of the Players Draw Conference, VIP area and a huge Fanzone with a maxi screen, light and sound for 9000 sq.mtr area.

"The entire installation was managed by inhouse crew of experts, with the set-up comprising over 120 meticulously planned rigging points" explains a MediaPro AV team member, as they afford an insight into the scale and intricate level of detailing involved in bringing together a truly seamless experience for the audience at the Next Gen ATP 2023 finals.

One of the most captivating aspects of the sporting extravaganza was the enchanting lighting design that managed to find the perfect balance between a sequence of pulsating colours



to capture the intense and dramatic moments, while ensuring that the spotlight always remained focused on the action unfolding at centre-court. It is learnt that team MediaPro AV deployed over 400+ lighting fixtures comprising the likes of the Martin Ultra Performance, Clay Paky B-Eye K25 and Krypton fixtures in an elaborate yet meticulously executed fixture arrangement which allowed lighting designers to create bespoke designs that successful in emphasizing the audience mood as much as it did the high-octane energy of the players during the game.

Perfectly complementing the lighting design in sublime fashion was the expansive system of LED screens deployed by MediaPro AV which comprised over 700 sqm of P4.8 LED panels spread across the venue flanks as well as the five-sided viewing screen that was suspended directly above the court. To ensure an absolutely pristine viewing experience, team MediaPro AV employed the use of the famed Aquilon C+ fully modular and scalable 4K/8K multi-screen presentation system and videowall processor from Analog Way in unison with 4 units of the Watchout 6 Servers,

complete with an additional special redundancy system in accordance with the client's request. Furthermore, team MediaPro AV also executed a flawless automation system that allowed for the central screen to 'split in 2' to afford a rather grand player entrance experience. The fact that the team were able to maintain the perfect balance between the lighting design and video playback, without any one visual element over-powering the other, was a truly commendable feat, especially considering the sheer high-stakes nature of the event.

That being said, an absolutely crucial aspect of MediaPro AV's service that truly coalesced all individual aspects of the technological inventory deployed for the event into a positively uninterrupted high-quality audience experience was the mammoth audio architecture that emphasized predominantly L Acoustics loudspeaker system setup. Over 80 units of the L Acoustics K2 line array modules were suspended in varying configurations to precisely cover the entire expanse of the seated audience, while multiple units of matching pair subwoofers provided accurate low frequency fidelity – thereby giving rise to a truly immersive soundscape. A pair of the iconic Quantum 5 digital mixing consoles from DiGiCo allowed engineers unparalleled control over tailoring every nuance of the sonic experience within the arena, while team MediaPro AV went a step ahead in assuring complete redundancy of the system by deploying 2 units of their newly acquired Direct out Prodigy Audio processors (this also happens to be the first time that this technology has been deployed in the region!). Alongside, MediaPro AV also provided and managed the world-class comms system for over 30 users, which was vital to ensuring that the entire event progressed smoothly without any hiccups.

MediaPro AV

Black Orange Live

Friends Of Shiva Upgrades with DiGiCo and Meyer Sound



Friends of Shiva with the first PANTHER system in Eastern India.

INDIA: In recent times, the Kolkata-based ace rental service provider Friends Of Shiva has made a significant enhancement to their digital mixing capabilities with the addition of the current industry favourite DiGiCo Quantum 338 system coupled with the SD-Rack, along with a single unit of the incredibly nimble yet powerful S31 digital mixing console. Additionally; the company has also expanded its already impressive FOH loudspeaker inventory with the acquisition of a brand-new comprehensive PANTHER line array system from Meyer Sound, complete with the powerful 2100-LFC Low-Frequency Control elements (subwoofers). According to the team, these strategic investments have afforded the company a powerful edge over their peers; as Friends Of Shiva stand proud as the owners of not just the first PANTHER system in Eastern India, but also the first DiGiCo Quantum 338 in the region.

According to the company, the decision to acquire the Quantum 338 system was fuelled by the need to meet the evolving demands of live events in the region as they had noted that a majority of all top touring artists and engineers citing the

Quantum 338 as their preferred desk to work with. Added to this was the slew of features that capabilities that the DiGiCo Quantum 338 digital offers; which includes a lavish 128 input channels, 64 busses, and a 24x24 matrix, all operating at a pristine 96kHz sample rate; in addition to an array of advanced features like Mustard Processing channel strips, Spice Rack plugin style native FPGA processing options which provides a plethora of effect options, Nodal Processing and True Solo – all of which make it a top choice in the industry. Plus, with the addition of the SD-Rack, users have reported the culmination of a comprehensive system that offers ultra-low latency, high-channel-count audio transmission, and seamless integration with diverse stage configurations with the capacity to accommodate a wide range of audio sources – all while assuring uninterrupted reliability.

On the other hand, the decision to invest in the S31 mixing console was a strategic move that was influenced by the desk's versatility, efficiency and ability to offer an impressive set of features and capabilities within a compact footprint. According to the team, the S31 offers DiGiCo's flagship audio quality, features, power and flexibility – all in a compact frame – which makes it the perfect main mix solution for small to mid-size event; whereas its capacity to work seamlessly with all other DiGiCo consoles makes it extremely useful as a 'slave-desk' for larger-scale shows. The desk's extremely flexible and dexterous capabilities is noted to allows users with the capacity to cater to the widest range of events, without any compromise on delivering a world-class mix experience.

And finally, the acquisition of the new Meyer Sound Panther system was an investment decision that was driven by the need to have



The Friends of Shiva team with their newly acquired DiGiCo Quantum 338 system.

a truly wholesome and comprehensive world-class loudspeaker reinforcement ecosystem, so that the company could assure pristine audio productions for every kind of event. With the new loudspeaker inventory boasting a total of 24 units of the PANTHER Line array modules and 16 units of the 2100-LFC subwoofers (which also happens to be the first set of 2100 LFC subwoofers in the entire country) – the company

affirms their confidence that the PANTHER and 2100-LFC combination would afford Friends Of Shiva remarkable scalability and adaptability to efficiently cater to medium to large-scale event productions.

Viewing the overall inventory upgrade from a macro perspective, team Friends Of Shiva confidently assert that the acquisitions of the digital consoles from DiGiCo and the Meyer Sound PANTHER line array system has expanded the world of possibilities for the company, while allowing them to undoubtedly be at the forefront of mega productions that will grace the region in the times to come.

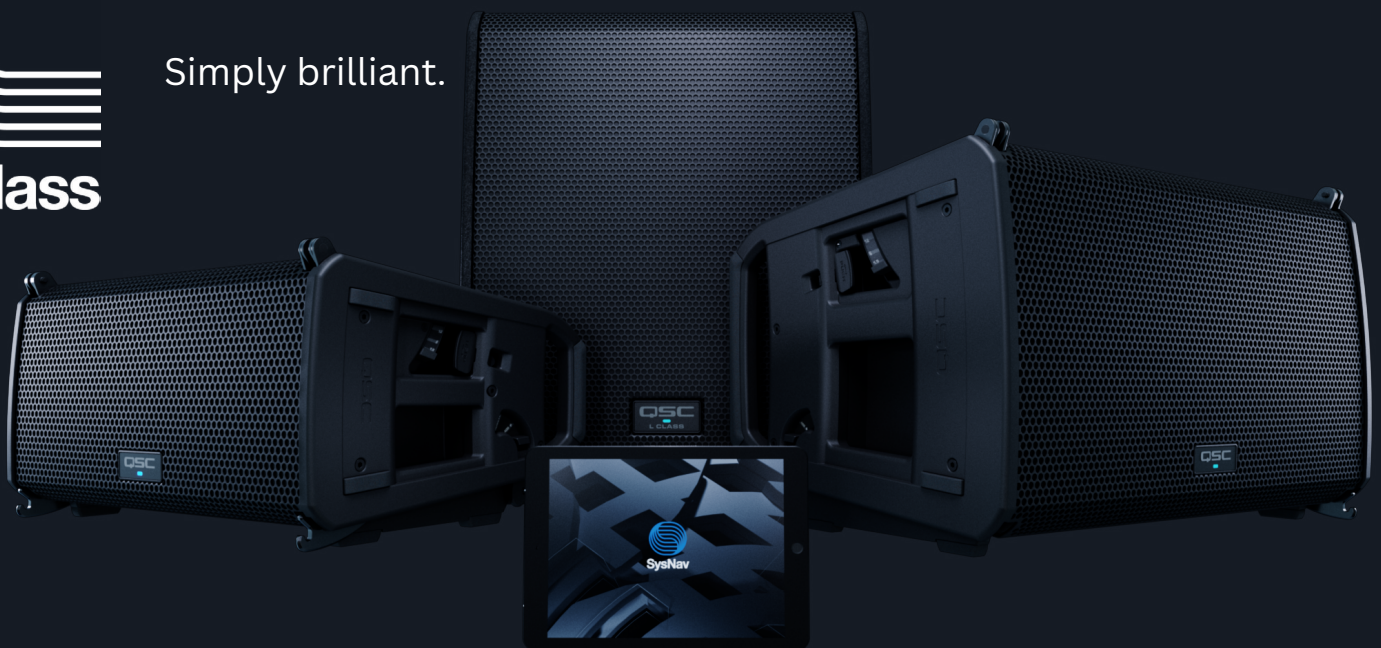
Friends of Shiva

Hi-Tech Audio and Image

Sun Infonet



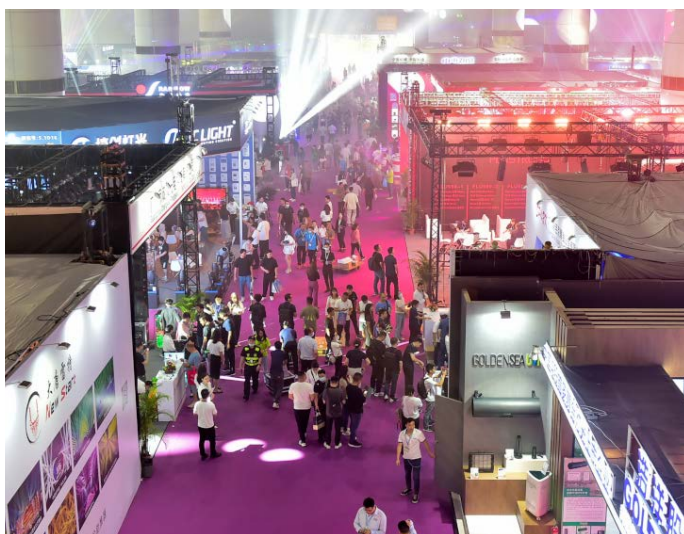
Simply brilliant.



Sindo Exports Pte Ltd
Authorised Service Center for QSC
T: 6397 5690
E: sindo88@singnet.com.sg
F: www.facebook.com/sindoexport
W: www.sindoexport.com



Largest Ever Prolight + Sound Guangzhou Will Shine as a Beacon for Industry Acceleration



CHINA: Technological innovation and new consumption trends have taken the world by storm in recent years. Manufacturers and distributors of professional stage, lighting, and audio-visual equipment have evolved into innovative service providers offering integrated, portable, and intelligent multi-application solutions.

From 23 – 26 May 2024, Prolight + Sound Guangzhou (PLSG) will return to help the global entertainment and pro AV industry capture these market transformations and opportunities. As the fair continues to grow, it is expected to drive brand value and innovation in the industry. Across 190,000 square metres of exhibition space in Areas A and B of the China Import and Export Fair Complex, 20 thematic halls will represent the largest show scale in PLSG's history.

According to market analysis, the market size for global pro AV systems is expected to reach nearly **US\$ 350 billion in 2028** with Asia-Pacific being the highest and fastest-growing region. The region's pro AV market is predicted to register a CAGR of 4.2% during the forecast period (2022

– 2027). As one of the world's largest and most influential industry fairs, PLSG has always been committed to merging high-quality products with innovative development to keep up with the rapid growth of the industry.

Following the record-high visitor turnout at the previous edition, Judy Cheung, deputy general manager, Messe Frankfurt (HK) Ltd, is confident that next year's show will serve as a catalyst for industry development. "To meet market demands, the last edition was centred on six vertical sectors: entertainment, architecture, the commercial sector, culture and tourism, education, and end users. These are the user segments which continue to extend the horizon of professional lighting, audio, and visual applications," she noted.

"Our ongoing efforts to optimise the fair's product categories enable it to penetrate various emerging sectors within vertical markets, further facilitating high-quality industry development. With the show's scale growing, product display will be more segmented in order to meet the

various needs of professional visitors from different sectors across the whole value chain."

Optimised product categories for vertical market penetration

Under the theme of "Audiovisual +", the 2024 edition will feature five key product groups spread across 20 specialised halls to unlock the ever-growing potential of the entertainment and pro AV industry along with their respective vertical markets. Key product halls in Area A include:

*** Audio Brand Name (Halls 1.2, 2.2, 3.2, 4.2, 5.2 and 3.1)**

Recent developments in pro AV, Internet of Things (IoT) and cloud computing platforms have led to a wide use of related technologies in areas such as live events, security, collaboration, meetings, learning, and beyond. As part of PLSG's Audio Brand Name Halls, fairgoers will find a range of the latest technologies in the Communication and Conference Halls, as well as the Multimedia Systems and Solutions Halls.

These halls will feature world-class pro AV solutions and integrated experience technology, including conference systems, public broadcasting, AV network transmissions, and multimedia entertainment. Together the five halls will create synergies across a variety of vertical markets, such as entertainment, cultural tourism, performance, commercial, education, and the government sector.

Additionally, the Audio Brand Name Hall (Hall 3.1) will continue to cooperate with outdoor line arrays (Halls 2.0 and 4.0). Combining "display" and "demonstration", these areas will be an ideal interactive platform for top-quality line arrays.

*** Pro Audio (Halls 1.1, 2.1, 6.1, 7.1 and 8.1)**

There has been a sharp increase in immersive experiences and scenario-based consumption worldwide, such as mini theatres, new performing

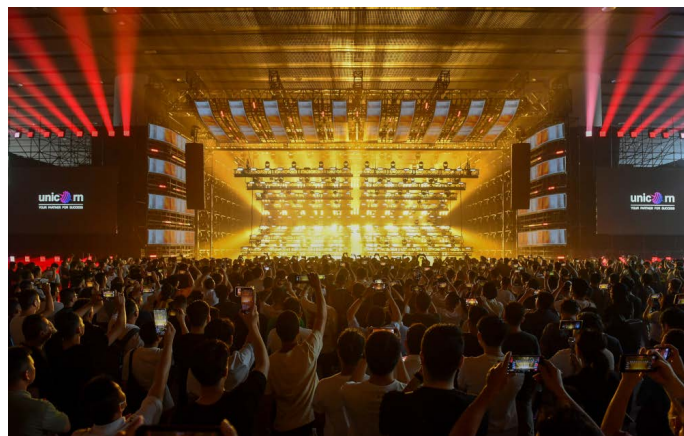
arts spaces, and small-scale music venues (live houses). Cultural consumption has shifted to scenic spots, commercial districts, and cinemas as new forms of business and entertainment.

With an extensive portfolio of entertainment and pro-audio products, the Pro Audio Halls not only feature professional and systematic audio equipment and amplifier systems, but also miniaturised, portable, and wireless applications to meet the diverse needs of both local and international buyers.

*** KTV (Halls 4.1 and 5.1)**

To cater to the emerging market for home entertainment systems, personal entertainment and themed immersive entertainment, this year's fair will significantly expand the KTV Hall to some 15,000 sqm featuring AV entertainment equipment, total solutions for KTV, live broadcasting, and more.

Cultivating cultural entertainment and anchoring development



Meanwhile, Area B will gather a wide array of professional lighting and stage equipment, as well as PLSG's signature event – the PLS Unicorn Series:

*** Pro Lighting (Halls 9.2, 10.2, 11.2, 13.2, 10.3 and 11.3)**

Stage lighting and other equipment applications are expanding as technology continues to iterate. This expansion spans from live performances

to commercial buildings, cultural and tourism venues, as well as small to medium-scale venues such as bars and restaurants. In response to positive feedback from exhibitors, the Pro Lighting Halls will reach their largest scale ever with five halls.

The offering will include not only professional lighting and stage solutions, but also LED displays, projection equipment, lighting control systems, hanging systems, and digital control systems. Together the halls will demonstrate the evolution of lighting in the live performance industry from a single product focus to total solution systems.

* PLS Unicorn Series (Hall 9.3)

The PLS Unicorn Series, the most anticipated attraction at the fairground, will be staged in Hall 9.3. As a cutting-edge demonstration of lighting and sound capabilities, the series inspires through several innovative and interactive stage shows and immersive entertainment spaces.

This allows industry players to find inspiration in creative ideas and diverse product applications.

At the previous edition, the lighting equipment sponsor of the PLS Unicorn Series, Jian Su, director of Product Resource Strategy, Foshan Yifeng Electric Appliance Industry Co. Ltd, said, "Many of our peers are bursting with ideas, but they are not sure how to implement them. PLSG is an excellent platform for helping them realise their concepts. Through the series, we can convey industry trends more accurately. We can also help channel players carve out their creative directions so that they can be more efficient when developing their businesses."

Prolight + Sound Guangzhou is organised by Messe Frankfurt and the Guangdong International Science and Technology Exhibition Co Ltd (STE). For more details about the show, visit the website or email plsgz@hongkong.messefrankfurt.com.

Prolight + Sound Guangzhou

Toei Tokyo Studio Relies on Brompton Technology to power Virtual Production Studio

JAPAN: 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 11 x 4K Tessera SX40 LED processors, along with a whopping 24 x Tessera XD 10G data distribution units.

"We have chosen an LED video processor that is globally renowned for its stability," acknowledged Junichi Higuchi, producer at Toei Tokyo. "As we explore new directions in visual production within the film industry, our need for more realistic



rendering grows. Brompton Technology, which resolves issues such as colour reproduction, is precisely the best tool to fulfil this need." 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.

"As the digital landscape evolves, our commitment to empowering storytellers grows," noted Elijah Ebo, director of APAC Operations at Brompton. "The Toei VP Studios represent an advancement in virtual production, and we're honoured to be part of this journey together with AOTO, disguise and other partners, helping Toei empower creators to push the boundaries of storytelling."

With Toei gradually embracing virtual production as their preferred approach, the innovative technologies employed in the studio, including Brompton LED processing coupled with its industry-renowned Tessera software features such as On Screen Colour Adjustment (OSCA), PureTone, Frame Remapping, ChromaTune,

Genlock, and ShutterSync®, among others, will streamline post-production, surmounting the constraints of traditional shooting regarding location, time, and weather, and granting enhanced flexibility to production teams. Additionally, the technology significantly enhances film production efficiency and delivers audience expectations for visual effects and overall production quality.

With globally acclaimed productions such as 'One Piece', 'Saint Seiya', 'Dragon Ball', and 'THE FIRST SLAM DUNK' already in its portfolio, the opportunities for the new Toei VP Studios facilities are virtually limitless.

"As a company, we believe it is our mission to elevate the quality of Japanese films and dramas," explains Higuchi. "To achieve this, we will remain dedicated to ongoing research and development, striving to become the number one studio in Japan. By actively engaging in multiple exciting film projects in 2024, we are steadfast in solidifying our role as pioneers and leaders in this domain."

"As we witness the birth of Japan's largest virtual production studio, we celebrate the convergence of technology and creativity," concluded Ebo. "The Toei VP Studios heralds a transformative era in how the Japanese film industry crafts its narratives, blurring the boundaries between imagination and reality. We're very excited about all the opportunities the studio will bring to their clients and are thrilled to be part of their undoubtedly remarkable projects next year and beyond!"

Brompton Technology

VIOSO Acquires domeprojection and Becomes Largest Provider of Auto-Alignment Solutions



From left to right: Christian Steinmann and Benjamin Fritsch

GLOBAL: Düsseldorf-based VIOSO GmbH, a global provider of automated alignment solutions for complex projection and visual systems, has acquired 100% of the shares of domeprojection.com GmbH.

This acquisition further strengthens the positions of VIOSO and domeprojection as leading providers of auto-alignment solutions, opening up new horizons in the AV and simulation sectors for system integrators worldwide.

Domeprojection will continue to operate under the leadership of its current managing director, Christian Steinmann, as an independent brand under the name "domeprojection – a VIOSO simulation company". Steinmann will also become a shareholder of VIOSO.

Benjamin Fritsch, managing director of VIOSO GmbH, shared: "This acquisition is a major milestone in our company's history, with the competition becoming partners in the best sense. VIOSO's overall expertise in the AV market and the massive growth in the simulation market

perfectly align with domeprojection's competence and reputation in the simulation branch. This is a unique alliance with a grand vision and incredible possibilities for our customers."

The existing team of domeprojection will remain unchanged. The collaboration will align domeprojection's outstanding technological advancements with VIOSO's proven simulation technologies and infrastructures, creating the industry's "most comprehensive provider of auto-alignment technologies". This includes software and hardware solutions tailored to the simulation and AV application sectors, including dome projections, spherical displays, and complex projection mappings, among others.

The acquisition also enables VIOSO to further expand worldwide and, especially, in the USA, where the company plans to open dedicated offices. "VIOSO's AV business, which has completed thousands of projects in the AV and media server sector in the last few years, will also benefit from new opportunities, including solutions for XR installations and LED screens," added VIOSO chief sales officer Raul Vandenberg.

Christian Steinmann, managing director of domeprojection, expressed enthusiasm for the transaction: "This union represents a win-win situation for our two companies. We are thrilled to be part of the VIOSO family and confident that this partnership will further enhance our innovation capabilities."

VIOSO

Laserworld Group and PRO LAB Trading Announce New Partnership



MIDDLE EAST: Effective immediately, the Laserworld Group and **PRO LAB Trading LLC**, one of the Middle East's largest distribution companies for entertainment technology, have announced a new distribution agreement of laser systems in the region.

PRO LAB has a well-established distribution structure all over the region, perfectly matching the broad portfolio of laser systems manufactured by the Laserworld Group – from entry-level effects to high-end quality lasers.

"It is great that we found such a strong, well-respected partner in the Middle East region, with offices in many countries with highly trained staff", stated Denis Phoenix, sales director of Laserworld. "It will be a great benefit to have a good stock holding in the region for quicker delivery and support for our customers. PRO LAB

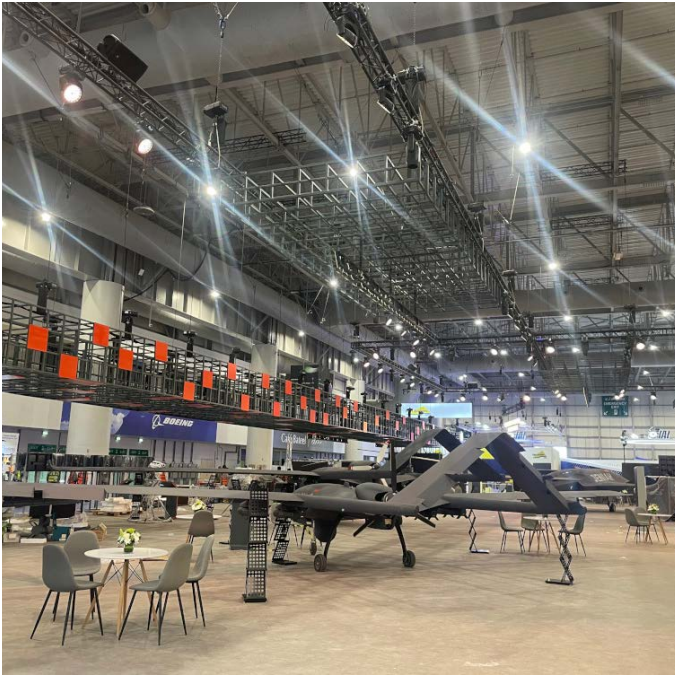
has a proven track record in the region, and our products perfectly complement their range of distributed products."

PRO LAB Trading LLC exclusively takes on the distribution for the Laserworld and tarm-branded laser systems as well as for the ShowNET and Showcontroller products. They become the preferred partner for the high-end laser systems of RTI and LaserAnimation Sollinger.

"We are looking forward to a great partnership", enthused Rony Dagher, COO of PRO LAB Trading LLC. "The products of the Laserworld Group give us a complete portfolio of different laser systems we can specifically choose from for projects and customer requests. The partnership gives us the flexibility and opportunities we need for our growing markets in the Middle East region".

Laserworld

URE Installs Record Number of Rigging Points at 'Biggest and Best' Dubai Air Show



UAE: The 645,000 sqm Dubai World Central aerotropolis, which features a purpose-built 42,870 sqm exhibition hall - about the size of seven football fields welcomed some 1,046 exhibitors from 60 countries for the 2023 Dubai Airshow.

With the world's leading aviation companies and organisations in attendance, the trade attendee intake came up to a whopping 60,692. Such a massive event required an equally massive amount of rigging. Thus, Tarsus Group contracted Unusual Rigging and Engineering to handle the gargantuan task.

"In total, we provided more than 900 rigging points – 750 of which are hoists, along with more than 2000 metres of truss", said Unusual rigger, Khalid Ali. "The 2023 airshow has broken all records for us, with only the 2009 event coming close in terms of scale."

URE has been contracted to provide the rigging for both the Dubai Airshow and MEBA for over a decade. However, as well as providing rigging points, the Unusual riggers have worked directly with many of the exhibitors too. The team has also worked on outdoor static display areas.

Khalid said: "Perhaps the biggest challenge was completing the build before the venue filled up with exhibitors wanting to build their stands. Things were changing every day, with orders and demands increasing. We were still working when the stand contractors and exhibitors turned up to build their booths and the carpet was being laid, and this of course made things a lot trickier."

He continued: "This is one of the few instances where planning ahead is not the answer. New surprises rear their head every day, so as [a] team leader, the best I could do was allocate a designated team for each task on a daily basis, and when or if things got tight, we would all pitch in together."

Even post-show, the challenge continued. "We had five days to dismantle the entire thing... normally not a huge problem but on the first two days, the exhibition hall was still full of stand builders taking down their exhibits. We had to really be organized, creative and prepared to think outside the box to be as efficient as possible with the limited time we had," said Khalid.

Load-in started in mid-October with an initial team of 6 people, with this number increasing gradually as the deadline approached. Khalid concluded: "This was a truly enormous event and the first time for me to lead the airshow project. It was a proud moment to be able to deliver the event as planned. A success for the customer and a success for Unusual Rigging!"

Unusual Rigging

Lightware Appoints New Regional Director to Drive Growth and Collaboration in SEA



SEA: Lightware Visual Engineering has announced the appointment of Candice Siow as regional director for Southeast Asia.

Based in Singapore,

Candice joins Lightware with more than 15 years of sales management experience in the audio-visual industry. In her new role, she will be responsible for the company's operations in Southeast Asia and will focus on expanding Lightware's presence in the region, working in close collaboration with key stakeholders to deliver a unified corporate message and go-to-market approach.

"I am delighted to join Lightware at a very exciting time in the company's development," commented Candice. "My goal is to build our presence in the region by working closely with our partners to deliver excellence to our users. I look forward to working with my new colleagues in the local region and as part of the wider international team."

Before joining Lightware, Candice spent 15 years with Kramer Electronics, most recently serving as regional sales director ASEAN. In this role, she consistently built sales revenues within the Southeast Asia region year-on-year, consolidating the company's brand presence, especially in Singapore. Previously, she also held senior sales and marketing roles within the business before promotion to Regional Sales Director in 2022.

She holds a Bachelor of Arts in International Business Management as well as a diploma in Sales and Marketing Management.

"The recruitment of Candice marks a significant step in our regional strategy," commented Robin Enlund, president of the Greater APAC region at Lightware. "Her wealth of experience and impressive achievements in the audio-visual industry are an ideal fit for the business. Supported by her leadership, I am confident we will see growing partnerships and a strengthened market presence, all while upholding our commitment to excellence for our partners and users."

Lightware Visual Engineering

Sonical and XMOS Collaborate for Headphone 3.0



GLOBAL: At CES, Las Vegas, 2024 Sonical, the company pioneering the principles of **Headphone 3.0**, and XMOS, a deep tech semiconductor company at the leading edge of the intelligent IoT proudly announced a joint development. The outcome of this collaboration resulted in a quantum shift in wireless audio quality and put the feature set of wearable audio devices in the hands of the consumer.

The joint development focuses on a wireless dongle which will enable Hi Res (24/96), uncompressed Linear audio stream to stream wirelessly from a PC to a headset (or other playback device). The wireless technology can be low-power Bluetooth enabled (BLE) or ultra-wideband (UWB). With UWB, in addition to precise reproduction of High-Resolution audio at 24-bit, 96 sampling Frequency, the technology will also support latencies under 5 milliseconds. These performance figures render the solution capable of addressing the very demanding Musical Instrument (MI) and Live Performance markets.

Gary Spittle, CEO Sonical stated, "The platform unlocks a wide range of new product experiences using a low latency wireless connection for premium audio devices. The DSP is a critical component as it makes products a lot more than "wireless DACs". By making the device "Appable" through downloadable plugins, we have enabled limitless possibilities."

Before the advent of Headphone 2.0, wireless devices were hard configured at the point of manufacture and severely limited (primarily due to Bluetooth Classic) in terms of latency and audio quality. The high-profile joint development between Sonical and XMOS breaks down these barriers to ensure a superior user experience for the device owners and simultaneously opens up previously unattainable markets.

Aneet Chopra, EVP Marketing & Product Management at **XMOS** shared "We are delighted to be working with Sonical on the development of their wireless (UWB/BLE) dongle. This will usher in the next generation of audio experiences and use cases for various devices including headsets. The device benefits from the low latency multiple threads available with our xcore. ai platform, simplifying the integration of critical DSP functions with predictable hard real-time execution. This is great for audio platforms like Sonical. We look forward to the roll-out of this innovative solution and seeing the broad range of subsequent applications."

Sonical

LEA Professional Provides Power, Performance, and Reliability for RXP



Recently, Kuala Lumpur's Rex Theatre underwent a major reopening and reinvention with the help of LEA Professional. Amazing immersive installations that you have to see to believe are now on display at the location.

Watch the "Between Worlds" film, the first reel produced as part of the Roe Visual CaseStudy



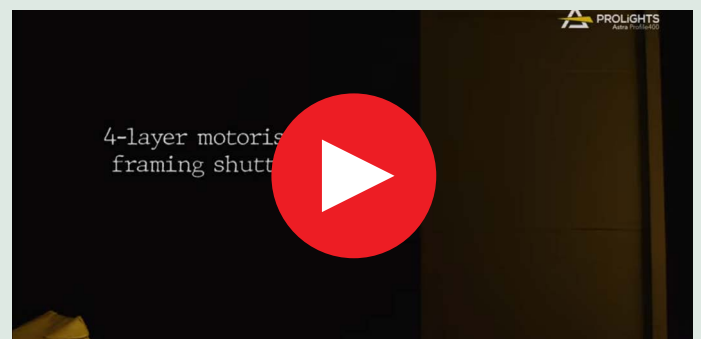
Organised by the ROE Visual team and led by seasoned virtual production specialists and cinematographers, CaseStudy is an interactive learning programme for cinematographers who want to work in Virtual Production.

Neumann MCM Makes Waves for Musicians



Since its introduction, the Neumann Miniature Clip Microphone System (MCM) has generated a lot of buzz. Artists all over the world have seen first-hand how the MCM is elevating the standard for electret capsules thanks to its exceptional audio quality and dependability. In this quick clip, well-known musicians KoN, Mellow Kitchen, and Jang Ha-eun share their thoughts on using the MCM.

ADJ Focuses its Flex with New Focus Flex L19 Moving Head



ADJ's Mike Turner is back with another instructional video on the recently released Focus Flex L19. In this video, Mike describes how the Focus Flex series will provide you with complete pixel control over all 19 LEDs and a razor-sharp beam that can cut through any kind of fog or haze, no matter how thick or thin.

Beam Steering



Beam steering will be next to “Immersive” in the fight for most overused word in the entertainment industry. Still a substantial number of us seem to think that some kind of magic is involved, when as yet again, it is just pure physics. So please allow

me a layman’s attempt at myth busting.

The idea behind beam steering has been used since about 100 years, simply to make sound from different drivers being carried further and in phase and thus raising speech intelligibility. Coincidentally the older and passive long column loudspeaker systems that can still be found in many churches around the globe, are the most basic and unsophisticated iteration of this and yet they still managed to do “something”, even if only at the very high end of the audible spectrum.

As soon as amplification channels became more affordable and DSP power widely available, it was a matter of time when someone would explore this approach further. In the modern times the two most original drivers of this technology are probably DURAN AUDIO’s (now in HARMAN) “INTELLIVOX” and RENKUS HEINZ with their “ICONYX” systems. Both of these designs were intended to raise speech intelligibility in difficult and reverberant spaces, many of which happened to be churches. In the meantime there are dozens of other offerings of this technology.

What is being done is, to achieve a better “aiming” or “focusing” of the audio energy towards a specific direction and target point, the signals of each driver in such a column system is driven

individually with an individual amplifier channel and an individual DSP channel assigned and then the drivers get delayed in such a way, that their signals arrive at the desired destination all at the exact same time and in phase. Provided you have enough DSP power you could also load this system with more than one set of parameters to create more than just one “beam”.

Let’s look where our TANSTAAFL is in here. Of course besides the fact that for the desired destination, all signals are in phase and in synch, of course in many if not all other places, the signal is not in phase, quite the opposite actually. If there is no one in this “other area”, then of course all is well and fine, since you do not have to worry about sound in places where there will be no one listening. However those effects of the steering through delay and phase shift still exist, even if no one is hearing them.

Next challenge is that most of those systems employ rather small drivers and this means they are not really full-range. If you need to use a two way system, you would ideally want the drivers to be concentric, so that timing and delay can be kept identical of each pair of LF and HF driver. If you use single driver devices within the column, you will encounter the limitations of such designs, where the lower the LF that you want to be able to produce energy at, you pay for this with HF resolution and efficiency in the HF and this means compromises wherever you look.

Of course someone thought about what if we had the DSP power and amplification channels put into a full range line array and then make the whole beam steering thing available in large scale sound reinforcement. This product exists since about ten years now and it has its good



Photo for illustration purpose only.

set of applications, but it is not the holy grail, that it is marketed as. Turn another eight years forward and we have enough DSP power and also amplification channels to make the whole thing available on both vertical and also horizontal domain, so steering can happen in any direction. The amount of DSP power needed and also available for this is amazing and this is by no means a small feat. Those systems have the same DSP power as a large scale live sound mixing console these days.

So everything would be hunky dory if it wasn't for those damn physics again, since the same problems and challenges still exists and rarely, if ever, do you have a small sweet-spot of area where you want sound at and the rest of the space is not occupied. Typically any live sound venue will try to sell every seat in the house to

maximize profit and revenue. And if there is an audience area where your beam is not aimed at, then you will still place all the artifacts of the beam steering there. And sadly this can be heard. Still no one has invented the magic box, where you get the good without the bad, so please be prepared for this when you are out there working with some of those magic solutions.

* TANSTAAFL – There ain't such thing as a free lunch.

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

ADJ Lighting Introduces Lime-infused Focus Flex L19 Moving Head Wash



Building on the success of its popular Focus Flex L7, ADJ has announced the immediate availability of its new Focus Flex L19. Featuring the same lime-infused, high CRI, colour-mixing LEDs as its compact sibling, this larger version packs in almost three times the quantity to allow for intense output and complex pixel-mapped effects. This professional moving head luminaire offers fast movement as well as an impressive zoom range, allowing it to generate both intense columns of light and wide washes of colour.

The Focus Flex L19 features 19 x high-output 40-Watt RGBL (red, green, blue & lime) colour-mixing LEDs. These are arranged in three concentric circles across the face of the fixture and can be controlled independently to allow for the creation of 'eye candy' animation patterns as well as for pixel-mapped playback of low-resolution video content. The inclusion of the lime LED chip allows for an enhanced colour palette as well as an improved CRI (Color Rendering Index) of 84.2 (zoomed out, full on). All LEDs used to manufacture the fixture are meticulously calibrated in the factory to ensure perfect consistency between units, even if they come from different batches.

Through mixing the intensity of the four primary LED colours, a huge gamut of output colours can be created to suit any mood or desired look. The fixture is pre-programmed with 64 colour macros to allow easy selection of popular options, while 0-100% dimming control of each primary colour allows for the selection of specific shades and hues. In addition, a convenient Virtual CMY mode is also available, which allows control alongside native CMY colour mixing fixtures using hardware/software CMY colour picker/palette tools. The fixture also offers white light output with a variable colour temperature of between 2700K and 10,000K. This can be accessed either via linear control or a collection of 10 convenient presets. The fixture's LEDs are positioned behind a textured front lens which focuses the light output as well as protecting the LEDs. The whole assembly is then mounted to a motorized zoom assembly, which provides quick and precise beam angle alteration. Offering a field angle range of between 5 and 50°, the fixture is capable of creating both wide washes and tight beams.

On the front of the unit's base is a large colour LCD together with 6 navigation buttons, which provide access to an intuitive menu-driven interface for DMX addressing and customization of the unit's various configurable operating parameters. This features battery power, which allows DMX addressing and other configurations to be carried when a fixture is being prepped for a show without the need to connect a power supply. There is also a USB port on the front of the unit, which can be used to quickly and easily load future firmware updates.

A choice of 6 different DMX channel modes is offered, ranging from a Basic 22-channel mode, where all the LEDs are controlled in unison, through to an Extended 104-channel mode,



which offers individual colour mixing control over each separate LED. As a compromise between these two extremes, the Extended 40-channel mode groups the LEDs into three independently controllable rings. Alternatively, animated effects can be created in the Standard 31-channel mode using the fixture's internal Virtual Foreground and Background Color Wheel feature. Using this useful tool, one of 60 colour macros and one of 8 effect macros can be set for the foreground and a different selection made for the background, allowing a vast selection of eye-catching effects to be created and customized with independently customizable speed and fade times.

On the rear panel of the fixture are locking power input and output connections, which allow the power supply for multiple units to be connected to a single outlet. The rear of the fixture is also home to 5-pin DMX input and output sockets as well as RJ45 networking input and output connections. In addition to the standard DMX512 protocol, the fixture can also be controlled using ArtNet, sACN or Klingnet to achieve easy integration with any existing lighting control or pixel-mapping system. The unit is also equipped with a wireless transceiver compatible with ADJ's WiFLY EXR wireless DMX protocol, allowing it to receive a DMX signal wirelessly from a compatible WiFLY transmitter or another WiFLY-equipped fixture over a distance of up to 2500 ft. / 700m (line of sight). The fixture also supports the RDM protocol, which allows for remote DMX addressing and the feeding back of fixture operating status information to a compatible DMX control solution.

The luminaire can be easily tailored to a designer's personal preferences, or the specific requirements of a particular application, using a wide variety of customizable options. These include five selectable Dimming Modes (Standard, Stage, TV, Architectural, Theatre & Stage 2), four selectable Dimming Curves (Square, Linear, Inverse Square & S. Curve) and adjustable Dimming Speed (between 0.1 and 10 seconds). In addition, the LED Refresh Rate can also be adjusted, between 900Hz and 25,000Hz, to eliminate flicker for broadcast or video capture applications and fan speed can be limited for applications where near silent operation is required. All these customizable parameters can be altered via DMX as well as directly from the LCD menu interface.

The Focus Flex L19 has relatively compact dimensions of 10.16" x 15.04" x 18.51" / 258 x 382 x 470mm (L x W x H) and a manageable weight of 42lbs (19kg), making it convenient to store, transport, and rig. The unit is fitted with mechanical pan and tilt locks, which can be used to prevent unwanted movement during transportation. Rubber feet mean that the unit can be placed directly onto a stage or riser, while the supplied pair of omega brackets can be easily attached to allow for truss mounting.

The Focus Flex L19 is shipping now from ADJ distributors and dealers worldwide.

ADJ/Focus Flex L19

Martin QUAD/CTC Precision Wash Light Family Customizes Your Lighting Experience



The Exterior Wash Pro Family from Martin has been engineered to meet demanding and harsh environments while offering a host of extraordinary creative possibilities with its intelligent features that elevate a wide range of lighting designs. These fixtures build on the success of the Exterior Linear Pro family and represent “a new era in colour performance for architectural lighting”.

The Exterior Wash Pro family is user-friendly and versatile, available in QUAD and CTC variants, with four sizes in each. These fixtures offer easy installation and configurable beam control, making them ideal for various applications, including long-throw applications.

The QUAD variants are distinguished by their colour performance. Martin factory colour calibration ensures superior colour consistency and provides a dedicated colour temperature control channel spanning from 1,000K to

12,500K, precisely following the black-body curve. Integrated colour boost technology, encompassing a smart ratio between LED capacity and PSU capacity, emits saturated and mixed colours up to three times brighter than previous models. The CTC variants offer an extended colour temperature range, ranging from 2,400K to 6,500K. This includes warm (2,400K), Medium (4,000K), and Cold (6,500K) LEDs for dedicated colour temperature control with improved white light quality.

The Exterior Wash Pro family makes easy configuration a key aspect of performance, with externally mounted micro lenses and optional baffle snoot. The in-built stand-alone programming functionality simplifies installation and works seamlessly across other product families like Martin’s Exterior Linear Pro family, allowing easy programming of product families within the same installation.



With a more compact design, the Exterior Wash Pro family seamlessly integrate into many environments, perfect for lighting specifiers supporting fixed outdoor installations. These include stadiums, arenas, theme parks, resorts, hotels, casinos, bridges, cruise ships, shopping complexes, houses of worship, and similar applications. Backed by a 5-year warranty, these fixtures meet strict environmental standards and ship in eco-friendly packaging.

Fixture Highlights Include:

- * The ability to choose from four sizes and lumen output packages that accommodate various installations and budgets. Enjoy a compact, lightweight design with an integrated baffle snoot option for added versatility.

- * Achieve precise light control and high intensity, while minimizing stray light in long-range applications, thanks to a narrow beam angle.

- * Aesthetically pleasing appearance with seamless colour mixing and colour boost for up to 3 times brighter saturated and mixed colours.

- * A dedicated control channel with a user-selectable default colour temperature from a warm 1,000K up to a cold 12,500 Kelvin temperature, which follows the black body curve.

- * An integrated magnetic sensor empowers easy local diagnostics and focusing. Stand-alone programming is available through the Martin Companion configuration tool.

Martin/Exterior Wash Pro L QUAD

Martin ERA 700 Performance IP Moving Head Offers More Tools for Challenging Lightshows



HARMAN Professional Solutions has released its Martin ERA 700 Performance IP, a state-of-the-art LED-based profile fixture, designed for permanent outdoor entertainment use, to complete Martin's ERA family of fixtures.

With its robust construction and innovative features, the ERA 700 Performance IP offers lighting designers and system integrators a comprehensive toolkit for creating immersive and visually stunning lightshows in even the most challenging environments.

The ERA 700 Performance IP is engineered to withstand extreme environmental conditions, making it ideal for larger outdoor shows, rental applications, and archtainment installations. With 26,000 lumens, this fixture delivers the ideal output for captivating outdoor lighting displays. Despite its power, the ERA 700 Performance IP

stands at a compact height of only 759mm and weighs below 40kg, providing a lightweight and reliable solution for various outdoor projects.

Designed with durability in mind, the ERA 700 Performance IP can flawlessly operate in a wide range of temperatures and boasts C5M marine-grade salinity protection which shields the fixture against harsh elements, ensuring its longevity and consistent performance. Its IP65+ rating and advanced gasket design provide superior protection against dust and water ingress, eliminating the need for protection domes commonly used in outdoor installations.

In addition to its performance, the ERA 700 Performance IP prioritizes security and ease of integration with an incorporated anti-tamper box, preventing unauthorized access to power and data, making it an ideal choice for installations in public spaces.

With its compact size, impressive performance, and extensive feature set, the ERA 700 Performance IP is now available for order in black and white finishes to support various outdoor installation needs, including theme parks and cruise ships.

Fixture Highlights include:

Comprehensive Toolkit and New Gobo Designs

CMYC colour mixing, dual gobo wheels, dual prisms, dual frost, new gobos, animation and a full curtain framing system offer the lighting designer a full toolkit to turn heads in any application. New gobo designs ensure that theatrical and archtainment applications are all capably supported.

Anti-Tamper Box for Security and Added Outdoor Protection

Prevents someone from removing power/data from the fixture in more public environments while also enhancing environmental protection around power/data connectors and increasing the ingress protection rating to IP66.

All-Weather and C5M Environmental Protection Plus Active Humidity Control

With an IP65+ outdoor rating, this fixture can be used outdoors and can withstand extreme environmental conditions including rain, snow, heat, and dust over long periods. C5M marine-grade salinity protection ensures protection in increased saline environments. The active humidity and heating control system monitors

humidity levels inside the fixture to ensure the optical system is working optimally and protected from moisture and condensation.

Ease of Service and Easy Access

A clever gasket design and innovations borrowed from Martin Exterior products enable easy access to gobo changes and serviceable items without the use of specialized tools and without damaging the IP protection.

Networking with Fail-Safe Bypass

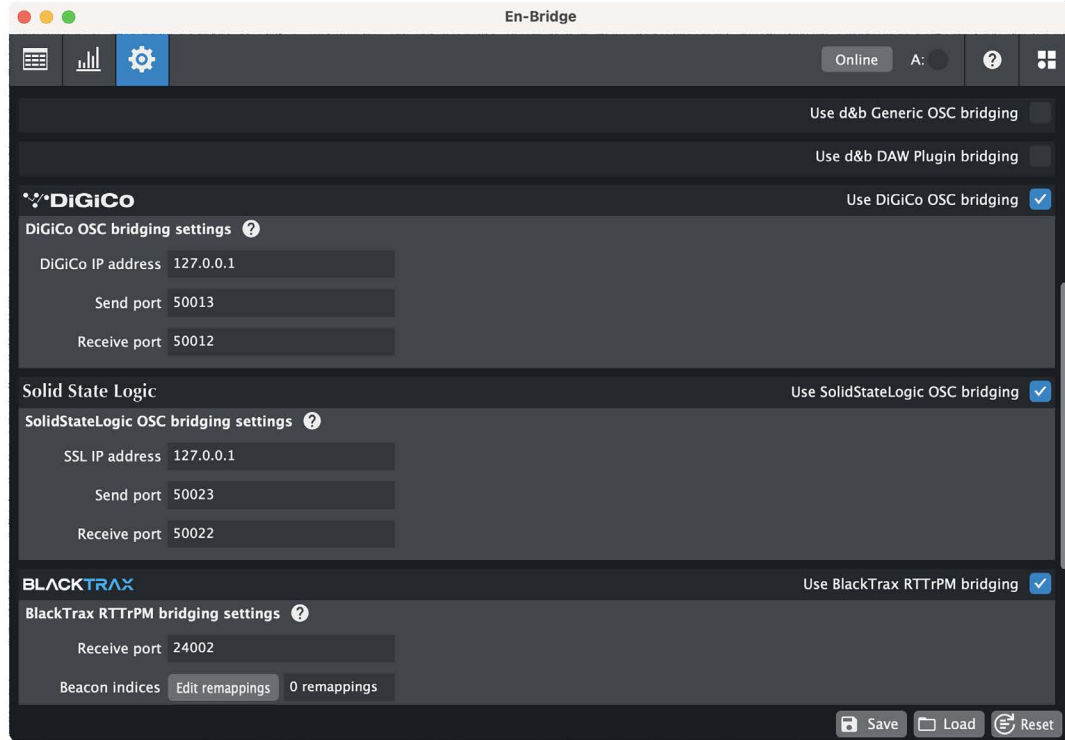
New for the ERA family, support for Art-Net and sACN capability enables seamless integration into lighting systems with fail-safe bypass technology, ensuring uninterrupted operation and data passthrough, even in the event of a fixture failure to ensure non-interruption of the network stream.

Weight and Size Plus Seamless Aesthetics

The ERA 700 Performance IP comes in below 40kg and measures just 759mm in height. Available in white and black, the ERA 700 Performance IP blends seamlessly into many outdoor installations, including theme parks and cruise ships.

Martin/ERA 700 Performance

d&b En-Bridge Software Takes Soundscape Interoperability To the Next Level



d&b audiotechnik's En-Bridge is a new software tool for the Soundscape ecosystem. With this new software, d&b streamlines the interoperability between the DS100 signal engine and leading third-party systems.

En-Bridge is a standalone software available for Windows and MacOS that provides OSC bridging and third-party protocol translation for remote control of Soundscape parameters on the DS100 signal engine. It allows BlackTrax tracking systems to be used for automatic object positioning on a Soundscape system, including their latest BT-1 system, by translating the BlackTrax RTTrPM protocol into DS100 OSC commands and providing additional mapping functionality.

For greater efficiency, En-Bridge also delivers a more consistent workflow for Soundscape console control with DiGiCo and SSL

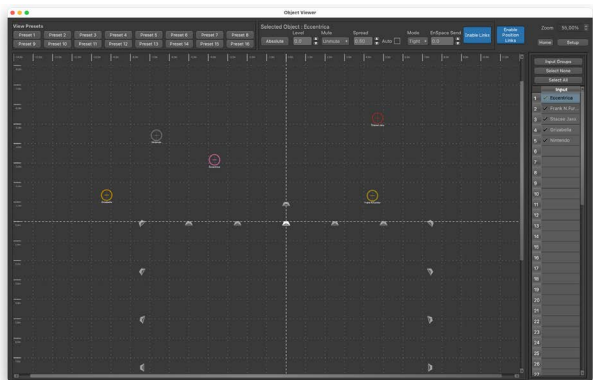
consoles, including support for bi-directional communication. This OSC bridging functionality can also be used for generic OSC controllers, allowing any connected controllers to communicate with two DS100s - allowing third-party integration and remote control to be used in redundant DS100 setups for Soundscape.

The En-Bridge software provides users with an intuitive, streamlined interface for establishing third-party interoperability for their Soundscape application, including communication monitoring, which allows users to monitor incoming data from third-party devices for troubleshooting purposes.

Click the link below to download the En-Bridge software for free.

[d&b/En-Bridge](#)

New d&b En-Snap Software Upgrade Enables Positioning and Editing of Soundscape Objects



En-Snap, the d&b Soundscape cue automation and show control software provided in collaboration by d&b and Gareth Owen Sound, has been given a major upgrade and is now available to all Soundscape users as En-Snap V3.

In addition to a range of new cue automation features and significant show control workflow improvements, the update adds the ability to use En-Snap as a standalone sound object control user interface for FoH for all types of immersive live stage performances using a d&b Soundscape system.

The all-new Object Viewer allows users to monitor and control the positions of sound objects directly in En-Snap, within an intuitive workflow that supports positioning and parameter editing for a single object or group selections in absolute and relative editing modes. The ability to organize the visibility of objects, background images, and view sections in user-defined "view presets," combined with options to colour objects and assign names, ensures maximum customization. Input groups for quickly selecting multiple objects for mass editing and object linking with multiple mirror modes for group positioning ensure efficiency within the streamlined, user-centric

workflow of the new Object Viewer, which is designed (from scratch) for object-based content creation in immersive live applications.

En-Snap V3 also improves the Cue & Show automation functionality with the integration of "(Soundscape) Coordinate Mapping" which supports relative object positioning to one of four mapping areas and the ability to link DS100 scenes stored on the device within any En-Snap cue. A new Inspector section allows editing of one or more sound objects directly in the En-Snap cue section.

This is complemented by a new category of innovative controls integrated into En-Snap V3: "Position Dependent Spread," which allows the automatic adjustment of object spreading based on object position, and "Tracking System Management," which handles OSC position data sent from third-party tracking systems, including cue-based assignment of tracking tags to sound objects.

En-Snap supports single and multiple DS100 setups and is available for MacOS and Windows. En-Snap V3 is a multi-window application with separate windows for Cue automation and Object Viewer and also provides compatibility with V1 licenses and show files. To take advantage of En-Snap V3's many features, the software must be connected to a DS100 Signal Engine.

d&b/Soundscape



Live Design International (LDI)

For over 30 years, LDI has been the go-to trade exhibition and conference for live design professionals worldwide. Visitors to this year's exhibition, which took place in Las Vegas from November 30 to December 5, 2023, experienced the newest technology and state-of-the-art entertainment equipment in action. From lighting to special effects, here are the solutions to look out for in 2024.

Cameo Premières New AZOR Moving Heads

Cameo can look back on more than ten years of experience in the professional lighting industry and continues to impress professionals all over the world with lighting designers staging some of the biggest festivals and events with Cameo lighting solutions, including the major EDM events Nature One and World Club Dome, the Lent cultural festival and the official live concert for the coronation of King Charles III.



New AZOR era

The compact and highly efficient moving heads in the **AZOR series** have been a firm favourite on live stages, in clubs and many other applications since their launch. A new AZOR era is now dawning at this year's LDI. The completely new moving head models were shown exclusively at the joint stand of Theatrixx and Cameo.

Other Cameo highlights at a glance:

PIXBAR G2 - IP65 LED bars with an innovative connection system for creative and easy-to-implement lighting designs, whether vertical or horizontal on the truss or standing on a base plate

OTOS SP6 - Combined IP65 spot/profile moving head with 600 W LED and over 86,000 lux at 6° beam angle for live, event, theatre and TV applications

OTOS B5 - IP65 beam moving head with 480 W discharge lamp, 511,000 lx @ 15 m and high-quality optical system for impressively precise 1° beams.

Cameo

ADJ Showcases Evolved Lights for Tours, Festivals, Special Events



Alongside brand-new products launched exclusively at the show, ADJ's booth featured a lightshow designed by experienced concert LD, Steve Kosiba. This showcased select fixtures from the brand's existing range of robust, reliable, and feature-packed fixtures, each specifically created to offer a return on investment to Lighting Designers, rental houses, production companies and integrators.

A partner at Squeek Lights, the concert lighting specialist based in New Jersey, Steve Kosiba has extensive experience in the lighting industry. He joined Squeek Lights after six years at Starlite Productions, where he was head of the automated lighting department, and, before that, spent years working as a house LD at many venues in and around Philadelphia. With comprehensive knowledge of Lighting Design and a particular specialism in time-coded programming, Steve was ideally placed to create a show that would stop LDI visitors in the aisles and showcase the full potential of ADJ's product catalogue.

While working on the ADJ's booth, Steve was "really impressed with the Focus Series of automated fixtures" so he wanted to feature as many as possible "even units that have already been out for a year or more."

The **Focus Spot 7Z** a feature-packed moving head launched earlier this year, was an integral part of Steve's LDI rig. Powered by a potent 420-watt white light LED engine, which has a native colour temperature of 8000K, the unit's high-quality optics ensure a crisp and even output of up to 20,000 Lumens.

Loaded with beam-shaping tools, this versatile automated luminaire provides lighting professionals with almost unlimited creative potential. Its feature set begins with CMY colour mixing, which allows for a vast selection of colours to match any mood or look. There is also a variable CTO flag, which can be used to select any colour temperature of white light output from 2,700K to 8,000K, and a separate 7-slot (plus open) dichroic colour wheel. Two independent indexed-rotating replaceable Gobo wheels, each with seven slots plus open, allow for a choice of 14 different patterns. The fixture also features an indexed rotating animation wheel, which can be used to generate engaging and complex moving projections. The unit's extensive feature set is completed by motorized zoom, focus and iris; two rotating prisms and two frost filters.

Another recently released Focus Series fixture that played a central role in the LDI lightshow was the **Focus Flex L19**. This professional moving head luminaire offers fast movement as well as an impressive zoom range, allowing it to generate both intense columns of light and wide washes of colour. It is powered by nineteen high-output 40-watt RGBL (red, green, blue & lime) colour-mixing LEDs. These are arranged in three concentric circles across the face of the fixture and can be controlled independently to allow for the creation of 'eye candy' animation patterns. The inclusion of the lime LED chip allows for an enhanced colour palette as well as a high CRI of 84.2. The fixture's LEDs are positioned behind a textured front lens which focuses the light output as well as protects the LEDs. The whole assembly is then mounted to a motorized zoom mechanism, which



provides quick and precise beam angle alteration between 5 and 50°.

Also on display at LDI, and integrated into Steve's lighting design, was the **Encore LP12Z IP**. Offering the ultimate utility lighting fixture, this unit aims to set a new benchmark for LED par can versatility. It offers huge brightness with lime-infused LEDs, motorized zoom for easy remote-controlled beam angle changes between 5 and 30° (9 to 50° field angle), a robust casing that can be used anywhere, an inbuilt wireless DMX transceiver for ultimate flexibility, and a heavy-duty scissor yoke that can be used either as a hanging bracket or floor stand. It is powered by twelve potent 20-watt quad-colour RGBL LEDs, which deliver a combined output of up to 4400 lumens. 16-bit precision dimming control of the red, green, blue and lime LED chips allows for the creation of a huge gamut of output colours, while an easy selection of popular options is facilitated via 64 preset macros. The fixture can also be used to output white light with colour temperature variable between 2700K and 6500K. All these features, wrapped up in one keenly priced

luminaire, make it ideal for touring and event production applications.

Having proved both effective and reliable on a series of tours over the past 18 months, the multifunctional **Jolt Bar FX** was another star of ADJ's LDI show. A professional linear LED fixture, it delivers lighting designers huge output as well as the creative potential of brilliant bright white strobe/blinder LEDs combined with multi-zone colour wash LEDs in one versatile unit. It features a central strip of 112 x 5-watt cool white SMD LEDs, surrounded on both sides by a total of 672 x 0.3W RGB colour-mixing SMD LEDs. This allows the same fixture to generate intense white strobing effects as well as vibrant colour washes. Both types of LED are grouped into independently controllable zones (16 white and 32 colour), which means the unit can also be used to generate strobe chases and other 'eye candy' effects. With a wide 116-degree beam angle and immense light output, the Jolt Bar FX will make a big impact wherever it is used.

ADJ

ROE Visual Dazzles with New LED Panel



The ROE booth for the 2023 show focused on the touring side of the live events space, with a comprehensive stage setup reminiscent of the many stage designs involving ROE Visual panels over the years. The ROE team also promoted the fine-pitch rental solution, **Topaz**. LDI was the first North American show to exhibit the new, all-purpose live events LED panel, the first of its kind for the company. ROE Visual's commitment to excellence is evident in the Topaz series, which combines trusted ROE Visual quality with a cost-effective solution. This new series comes in three versatile versions - Topaz flat, curve, and cube - allowing event organizers and AV rental companies to unleash their creativity like never before, while still achieving a superior return on investment.

In addition to Topaz's unveiling, the show was the locale for other technology sneak peeks from the LED manufacturer as well as tour-tested favourites. Attendees experienced a large Topaz wall as centerstage, with Graphite (GP 2.6), Carbon 5 MKII (CB5 MKII), Vanish (V8T), and ROE Strips. The LED video walls utilized Brompton Technology processing and were driven by disguise vx 2 and 2x4pro media servers. The stage portion of the design incorporated Black Marble (BM2) panels powered by Megapixel processing.

ROE Visual

LynTec Packs a Punch with Its DMX Relay and Relay Panels



LynTec demonstrated its new Xtend Relay for Lighting (XRL) relay module as well as its award-winning PDS-12 Sequencing Relay Panel and LCRP-12 DMX Lighting Control Relay Panel.

LynTec's standalone XRL relay module comes in a 20-amp cube enclosure with two Truecon outputs each independently controlled by its own electrical relay. The module can be placed anywhere imaginable: on rigging, behind line arrays, or anywhere equipment is located. Each module contains two Truecon connections, a power plug, and an Ethernet port. Each Truecon can be turned off independently. Integration is simple: Connect the module to a power source and the network, and then plug in the equipment that needs power control. Using LynTec's IP-based GUI, users can set up and customize the protocol for each device, providing an integrated and affordable approach to whole venue power control.

The LynTec PDS-12 panel builds on the reliable power control features of the legacy PDS-10 Relay Panel — one of the company's most popular products — with a critical redesign that delivers additional cost savings and features. The PDS-12 is a low-cost, feature-rich relay panel with

four, eight, or 12 30-amp, single-pole latching Panasonic relays installed in a compact, 1-square-foot NEMA 1R or 3R enclosure.

The LCRP-12 panel builds on the reliable lighting, sequencing, and power control features of the company's popular LCRP-10 relay panel with a critical redesign that delivers additional cost savings and features, including compatibility with any DMX control system. LynTec's LCRP-12 is a low-cost, feature-rich relay panel with 4, 8, or 12, 30-amp single-pole latching Panasonic relays installed in a compact, 1-square-foot NEMA 1R or 3R enclosure.

Both the PDS-12 and the LCRP-12 panels feature individual step delays between each relay, emergency off by circuit, emergency on for lighting by circuit, as well as under- and overvoltage sensing for brownout and voltage spike protection. They're easy to set up via an LED display and rotary encoder. They can be added to existing building automation systems — a feature also available with the company's LCP and RPC power control solutions.

Lyntec

IYKYK Elation has a Hectic Yet Successful Show



Not only was Elation busy at a hectic booth each day of the LDI trade show in Las Vegas, but the Elation team hosted a pair of invitation-only IYKYK

events for lighting professionals that proved just as popular. Elation's global vice president of Sales & Marketing, Eric Loader noted that it was one of the busiest shows he had experienced in a long time. The Elation booth was jam-packed and the new products, especially the new Proteus series fixtures and the new fanless Fuze Teatro, were well received.

The IYKYK events (an acronym for If You Know You Know) provided a sneak peek of what lighting pros can expect from the Elation portfolio in 2024 with cutting-edge technology products across several upcoming lines on hand for initial feedback and demo. Elation's Proteus, Fuze, and KL lines saw premier product launches at LDI, including the **Proteus Hybrid MAX**, a next-gen hybrid fixture, the **Proteus Odeon** with a variable CRI LED engine, and the **Proteus Radius**, a high-intensity Beam FX fixture.

Additionally, theatre professionals were drawn to the **Fuze Teatro**, a fanless framing fixture for silent operation, while the KL CYC cyclorama/set/wall wash garnered steady customer interest. Two new series of versatile Par colour changers, the Six+ Par, an upgrade of the industry favourite SixPar; and the Limelight Par, a full-colour mixing wash luminaire, also proved popular. The first fixtures in a new Sol line of versatile blinder effects and Pulse line of new strobe lights also premiered.

Under the Elation umbrella, Obsidian Control Systems continued to gain traction as designers, programmers and operators all made their way to the Obsidian booth to check out the brand's intuitive line of NX consoles, as well as a full line of NETRON data distribution products. Obsidian also gave a shout-out to Parker Buckley and Ashton D'Avanzo, who secured an LDI Battle of the Busk Jaw Dropper Award using an Obsidian NX4 console.

Elation

Vari-Lite Promotes Sustainability with Latest Console Solutions



Vari-Lite announced a new, higher output light engine upgrade for their workhorse VL2600 Series fixtures. The light engine upgrade provides significantly higher output to the popular line of moving head luminaires while aligning with the company's commitment to sustainability by promoting a circular economy, minimizing waste by extending the existing product lifecycle rather than making iterative new versions, for a positive impact on the environment and society.

Originally released in 2018, the **VL2600 Series** is, to date, one of the most popular Vari-Lite fixtures ever produced. Boasting a profile, wash, and spot version, the VL2600 Series is a full family of fixtures with a broad colour palette, a wide range of features, and a consistent light engine across the series. It's possible to rent a VL2600 Series luminaire on every continent on the globe, and the new easily replaceable light engine increases sustainability by extending the life of these highly specified light fixtures with notably higher output and the same great features.

Vari-Lite demonstrated the upgraded VL2600 light engine in a side-by-side comparison with a current-generation fixture at the show. The VL2600 Series includes a broad range of high-demand features, including CMY colour mixing,



variable CTO, fixed and rotating gobo wheels, iris, and frost.

Sustainability is core to the strategy at Vari-Lite, which boasts "some of the longest-lasting moving head luminaires in the industry", with many luminaires remaining in use for decades. This focus on a circular economy aligns with the corporate strategies at parent company Signify, a world leader in sustainability that has been 100% carbon neutral with zero waste to landfill since 2020.

New solutions that were shown in the Vari-Lite booth included the recently launched Vari-Lite Neo X5 Console, a preview of the next-gen Neo X Server, and new updates to the Neo and ZerOS console software platforms.

Fixture Highlights:

Neo X5 Console The Neo X5 Console is a compact, high-performance 5-fader lighting console running the powerful Neo platform. It offers 5 multifunctional motorized playbacks, backlit encoders, and a built-in monitor as well as a soft touch control screen. The console includes an advanced effects engine that supports pixel mapping, media playback, timelines, and more and can output over 50,000 channels of DMX.

Neo X Server In addition to the Neo X5 and X15, Vari-Lite previewed the new Neo X Server. Expected to launch next year, the Neo X Server includes the same power, features, and capabilities as the popular Neo X Series consoles in a standalone 2U rackmount device. The X Server offers 100 universes of control out of the box, is easily controlled with a touch monitor, a mouse and keyboard, or using the Neo iOS app, and can be used by itself in archtainment applications or paired with a Neo X Series console for tracking backup.

Neo and ZerOS Software Updates Also premièring at LDI were new software updates for Vari-Lite's Neo and ZerOS console platforms. The new Neo 4.1.1 update was displayed on the premium Neo X Series consoles, while the 7.14.1 update for ZerOS will be shown on Vari-Lite's easy-to-use FLX Series consoles.

In addition to the capture visualization, PDF viewer with cue markup, effect masters, and other enhancements previously announced in Neo 4.1, the new 4.1.1 update includes over a hundred enhancements to the user experience, including updates to CUE UNDO, improved media playback capabilities in Matrix effects (which can be seen in a demo on the LDI stand, featuring a Color Kinetics Luminous Textile panel), and more.

The new ZerOS 7.14.1 update offers over 50 enhancements to the user experience, including updates to playbacks, improvements to ZerOS's fully automated move-on-dark capabilities between non-sequential cues, and more.

Vari-Lite

LDR Focuses on Followspots

Renowned Italian lighting brand Luci della Ribalta (LDR) exhibited with their sole US distributor CantoUSA. LDR presented their new STELLA 8/22



alongside several intriguing products, with a specific focus on followspots, a product category for which the company has long been recognised. LDR's brand-new Stella 8/22 600W LED profile was displayed at the booth, along with their other flagship products, including Astro 600 6000K – currently the company's best-selling followspot – Astro 250 CM Wi-Fi HP.

Fixture Highlights:

STELLA 8/22 Visitors to LDI marvelled at the brand-new STELLA 8/22 LED profile spot that, thanks to its double-condenser optics, produces a highly defined beam of pure white light and perfectly sharp gobo and shutters projection from any position.

Its 600W beam features either a Warm White 3200K or Cool White 6000K colour temperature and is generated by a single 600W COB source. The STELLA range is outstanding in its performance making it the ideal choice for narrow-angle to front-of-house, very wide-angle projections and long-distance applications in large venues. Control is available remotely via DMX512 or RDM, or manually through an easy-to-use rear control panel.

ASTRO 600 6000K The latest LED followspot from LDR, the Astro 600 produces a pure white beam of light with an extremely flat field, thanks to its integrated state-of-the-art LED engine and electronic control system. Despite having been

introduced to the market during the COVID-19 pandemic, it has quickly become LDR's flagship product.

The ASTRO 600 product line has been enriched this year with the 3200K warm light variant, the only LED followspot capable of generating this colour temperature currently available on the market, and the Tropical model, particularly suitable for damp and humid environments, such as cruise ships, ocean or sea-side venues and sports-arenas, just to mention a few.

With its 3200K and 6000K White beam generated by a single-source 600W COB which prevents any colour shift during dimming.

ASTRO WI-FI HP Astro Wif-HP is one of the many models in a full range of powerful, precise and user-friendly LED followspots ranging between 230W and 380W and available with 3200K, 5600K or RGBW colour temperature.

All ASTRO models are compact and possess highly efficient DMX512- and RDM controllable units, featuring a state-of-the-art LED power source, digital dimming, flicker-free and constant colour temperature at any light intensity and produce a powerful and highly-defined beam of pure white light.

The RGBW model features unique specifications, among which the possibility of controlling the colours with your mobile phone or tablet, thanks to a proprietary Wi-fi signal generated by the ASTRO itself and via the Artnet Controller App on Android devices or Luminair App on Apple devices. The Wi-Fi access point allows the connection of 1 device only, which can be either fitted on one of the side control bars of the Astro or operated from a distance of up to 12m from the followspot. Remote control through DMX512-RDM is a further option, as on every LDR LED fixture.

LDR

Robe Reveals Magical New Tech



Images by Louise Stickland.

Robe enjoyed the buoyancy of a busy year in North America at LDI. The Czech moving light and LED manufacturer capitalized on the confidence and positivity of the market, as well as the strategic importance of the United States, by launching three exciting and innovative products while presenting its new spectacular live show "The Power of Imagination". The show itself won the 2023 LDI Award for 'Best Product Display'.

The Robe premiering products at LDI included the iT12 Profile, the T32 Cyc, and two new variants of the cool and successful PATT series of scenic illumination tools, the HolyPATT and the MolyPATT, all of which attracted plenty of interest.

Fixture Highlights:

iT12 Profile

From single static optically crisp projections to complicated gobo, framing, beam, and colour control, the fully weatherised iT12 Profile is an advanced modular outdoor solution for all exterior static projection needs. The fixture has an impressive CRI of 95+ and a 13,000-lumen output.

It offers all the advantages of Robe's TE (TRANSFERABLE ENGINE) technology, the



Image by Louise Stickland.

standard Robe T-Series colour refinement and consistent and precise replay-ability. The iSE-MSL-TE 500W TRANSFERABLE ENGINE is an IP65-rated self-referencing, rapidly changing TE Multi-Spectral light source and a cost-effective investment that can be exchanged or replaced.

Other unique Robe innovations like DataSwatch – for quick selection of the most trusted colours and tones; L3 – (Low Light Linearity); 18-bit dimming for ultra-smooth fades to black; BARS which locks the motorised zoom and focus firmly in position even during power-cycling, and RAINS active management for humidity, temperature and pressure control are all standard.

POLAR+ is a standby mode that maintains instant availability to minus 50° Centigrade for the toughest and coldest environments.

T32 Cyc

Designed in collaboration with some of the world's leading lighting designers, opera houses

and theatres, Robe's T32 Cyc features all the performance, tools, subtlety, and control to assist with making designs even more exciting and visually stimulating.

Effective cyc lighting has always been challenging, but this product addresses all those past issues and attains greater reach, smoother coverage, and more visual impact than ever before from an LED luminaire.

The low-profile, easily inter-connectable T32 Cyc contains powerful RGBBAL multi-chip LEDs to generate the highest high light levels and faithfully reproduce those full-spectrum colours and tints favoured by designers worldwide.

A 6:1 height-to-distance ratio asymmetrical optical system, produced a uniform flat field coverage even when close to the cyclorama, freeing up valuable stage space for performers, set, props, etc.

From either the top or base of the cyclorama, Robe's unique, patented motorised VertiSpot feature provides vertical crossover point control, superior blending, and vertical output variance.

Four individually controllable zones offer increased variations and effects and motorised tools facilitating split-second scene changes, giving designers substantially more scope than time-consuming, conventional, manually adjusted fixtures.

The T32 Cyc features Robe's T-Series' colour consistency and seamlessly integrates with other lighting, thanks to a virtually controlled CCT range of 2.700K to 8.000K, plus calibrated whites, the DataSwatch onboard colour library and tungsten emulation. All the colours are rendered with ratings of CR:96 and TLCI:97, and RGB or CMY colour mixing control offers faster programming.

HolyPATT and MolyPATT

Adding retro style to broadcasts, events, stages or film sets, Robe's PATT family of LED fixtures has expanded to include these fantastic new variants. Available in two sizes, the HolyPATT and the larger **MolyPATT** bring an elegant warm tungsten glow that can add incredible scenic elements to any show with their timeless brushed aluminium finish – fantastic for props and set dressing or for simply boosting the ambience in any space.

Based on Robe's PATT2013, the HolyPATT and MolyPATT feature a 4W LED vintage soft coil filament lamp with a colour temperature of 1,800K to illuminate the surrounding transparent high-reflectivity parabolic reflector, producing a warm, atmospheric glow. Convection cooling means the fixtures are silent in operation and they dim beautifully and smoothly as one would expect.

The Robe North American team – recently expanded with the acquisition of lighting and

media control manufacturer Avolites – was joined by an international team from Robe lighting s.r.o. international including CEO Josef Valchar and International sales director Ingo Dombrowski – underlining the importance of the market and the expo.

Avolites – now 'A Robe Business' – looking forward to a new era of control solutions development ahead – were on an adjacent stand benefiting from the proximity of being next to Robe including the high footfall.

Completing the 'Robe collection of businesses' was architectural LED brand Anolis, which has been exceedingly successful across this sector and the world of built environments, as well as crossover disciplines like archtainment.

Using around 200 Robe fixtures, a 4-part show was conceived, storyboarded, designed, and produced to highlight the newest products in a real-life scenario by Robe's in-house creative team. Nathan Wan and Andy Webb worked closely with Jordan Tinniswood, Josh Williams, Tomáš Kohout, and David Gonzalez on the staging and production, with choreographic magic by Jaye Marshall.

The performance illustrated how all of the Robe products could work together, complete with flames, confetti, smoke, and bespoke video content, all ramping up the drama, "The Power of Imagination" thrilled audiences, running every 90 minutes throughout the expo day.

Once on the stand, most visitors stayed to hear and see the specially devised individual product VOG (Voice of God) presentations. The power and potency of the iFORTE LTX were highly visible, leaving people in no doubt about what the fixture could achieve and how bright it is, with 14 x LTXs as core fixtures together with the other two new FORTE variants – FORTE Fresnels and FORTE PCs – mostly rigged on overhead trusses.

The truss design included some architectural curves and drop-bars to add depth. A row of iFORTE LTXs on the upstage edge of the stage blasted through, while 360-degree rotating TetraXs were prominent across the balcony of the raised upper tier of the stage.

LEDBeam 350s and PAINTES were scattered around with PAINTES on the lower sections of the stage together with the Award-winning FOOTSIE2TM – another impressive Robe innovation, a fully IP-rated lighting concept to replace traditional 'footlights' with a super-smart cable-tray styled LED foot light batten removing any visual barriers between the audience and performers.

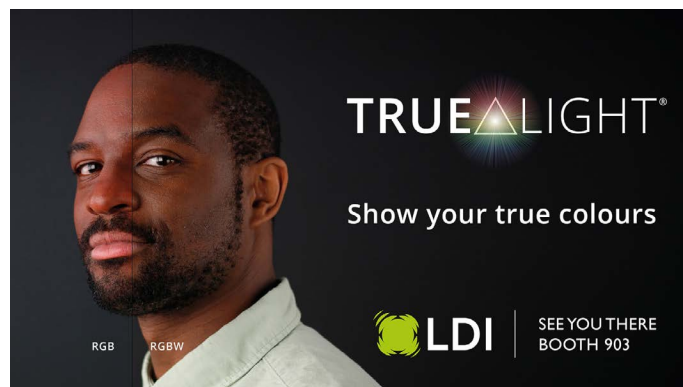
T1 Profiles running on a 3-way RoboSpot remote follow system picked up and key lit the dancers, while T11 Profiles, PCs and Fresnels from Robe's theatre range further highlighted the movement and scenic elements of the design.

6 x new MolyPATTs graced the downstage edge. The luminaire is based on the casing of Robe's PicklePATT, complete with a lamp holder for a 'squirrel' filament bulb. On the back wall were six HolyPATTs, the slightly larger counterpart, which is a derivative of the PATT 2013 scenic luminaire. All lights were programmed by and run to timecode via an Avolites flagship D9 console.

The Robe team interacted with a lively international mix of visitors throughout the show. In addition to those from America, many entertainment professionals from as far as Asia, the Middle East, the Far East and Australasia, with numerous Europeans all boosting the appeal of the show as a cosmopolitan networking hub, underlining the global nature and reach of the industry.

Robe

Brompton Technology Demonstrates Next-Gen LED Video Processing



Brompton Technology showed off its award-winning, next-generation TrueLight technology, which delivers high-quality lighting from LED panels with extra emitters – offering accurate, calibrated RGBW colours and unparalleled control over spectral output from RGB panels.

TrueLight is powered by Brompton's new Tessera G1 receiver card, and it builds upon Brompton's Dynamic Calibration technology, the only system on the market capable of providing complete spectrally-aware calibration for extra emitters. TrueLight ensures that colorimetric precision and full colour and luminance correction are applied on a per-pixel basis, allowing for intelligent RGB to RGBW conversion that gives a broader spectral output for better lighting quality, while also maintaining precise colour accuracy.

This brings particular benefits in situations where LED panels are contributing to the lighting of a scene, such as in a virtual production volume, where recreating reality is a top priority and the narrow spectral output of conventional RGB panels can cause colour shifts and unnatural skin tones.

Brompton offered TrueLight demonstrations twice daily at their booth. The booth also

featured an interactive RGBW tunnel, powered by ROE Carbon 5 MKII RGBW LED panels, where visitors could walk through an enclosed setup illuminated by LEDs, play with different props, and experience TrueLight in action first-hand.

Additionally, Brompton's Product Lead Cesar Caceres spoke on a panel in the INFiLED booth, along with INFiLED's director of Technical Services Adam Coleman and VIVE MARS' developer relations lead Raymond Mosco, on the emerging XR and virtual production technologies and trends.

Brompton Technology

Equipson Brings Exciting New Features to Lightshark Range of Multiprotocol Consoles



The LightShark range of DMX-based hardware lighting consoles from Spanish manufacturer Equipson has undergone an exciting software upgrade that introduces many new and useful features.

Already renowned for giving users a cost-effective hardware console with an easily accessible web-based interface, LightShark hopes to change the world of traditional lighting control systems by delivering a more streamlined workflow that significantly improves the customer experience.

The latest software upgrade (version 1.5.25) applies to all products within the LightShark range, including the LS-1 hardware console with assignable faders and rotary controls, the more affordable LS-Core, the LS-Wing Open Sound Control (OSC) hardware controller and three multiprotocol DMX streaming devices - each supporting a different numbers of DMX universes - that are collectively referred to as LS-NODE.

These products are aimed at all types of venues, from small theatres to large stadia, and give lighting engineers the ability to control up to eight DMX universes and 4000+ DMX channels, all completely integrated via smartphones and tablets. In addition, the range is fully compatible with other manufacturer's equipment because the products work with industry-standard DMX and ArtNet lighting protocols, as well as any Operating System (Android Linux, Windows and macOS).

The latest version of the software introduces Record Merge, an exciting development that makes it possible for programmers to quickly include their information in the selected Cue - or in all the Cues of a playback - without having to use the EDIT+UPDATE function. This feature is matched with another innovation, Record Remove, that allows programmers to quickly remove information from a Cue or from all the Cues of a playback without having to edit them one by one. In addition, it is now possible to use the EDIT function several times so that programmers can access information about different Cues in order to update the first one selected or record a new Cue.

The new software upgrade also implements ArtNet v4 and increases the number of ArtNet Universes available from four to eight. The inclusion of Digital Patch makes it possible to assign any universe from the console to any network universe, even when they have different

protocols. In addition, users can now activate or deactivate universes individually.

Another new feature is Unicast, which defines the specific IP of the node or device to which universe information needs to be sent. Also, it is now possible to automatically detect LSW-1 remotes on the network and define which network interface the remote has been connected to.

The final benefit delivered by the new software upgrade is the inclusion of a WEB user manual within LightShark. This manual is completely web-based and gives users access to many different, step-by-step video tutorials and screen recordings that allow LightShark users to delve deep into the product's capabilities and learn new and exciting ways to control and enhance their light shows.

Download the new software upgrade [here](#)

Lightshark

Claypaky Returns with Multiple World Premières and Some Familiar Faces



Claypaky returned to LDI to present its recently launched products for the entertainment industry. Besides all the new products and innovative technologies, it was also the first time

since ARRI's acquisition of Claypaky, that the two companies exhibited together at LDI, thus presenting an even broader product portfolio in addition to the entertainment-oriented product range.

Fixture Highlights



Claypaky Rhapsodya

Rhapsodya A high power, low-noise multi-spectral - LED based fixture designed for a variety of applications such as theatre, TV production, touring and live events. Rhapsodya uses a custom 1200W multicolour RGBAL LED engine, capable of a 24,000-lumen output. Exclusive features include the ACCUFRAME, a framing system using two focal planes for a better resolution and focusing, TONEDOWN, ensuring a whisper-quiet operation at just 27dB, Absolute Position, for advanced PAN & TILT control, LINEGUARD, a new frost system using two pairs of blades for much higher beam uniformity and truly incremental adjustment of frost levels, and ColorMatch calibration feature, for matching the colour temperatures to other fixtures by using Claypaky CloudIO software.

This technology provides consistency between a variety of fixtures used in the production and the potential for storing custom digital colour filters onboard. Rhapsodya also incorporates AccuTone, a sophisticated, internally developed firmware algorithm for precise control over the beam in a multicolour LED engine, providing vibrant, rich colours and a balanced, consistent white,

optimized for both stage and TV. COLORSTRING is a new system enabling individual control of 4 independent LED stripes within the engine for a high level of graphics and colour effects.

Skylos

As the most recent member of the laser family, Skylos is an ultra-versatile and weather-resistant fixture, with features that make it much more than just a classic searchlight. The Skylos caters to the touring sector, where LDs are constantly on the lookout for dense, solid beams of light and ever-greater light output. It fits a custom 300W white light laser source, which provides an extremely parallel, uniform beam. Considering its light output and the size of the front lens, the body of this light is lightweight and compact. This allows the unit both to be moved with relative ease in any environment and to be rigged on trusses for use on tours. Its body is IP66 protection rated and marine grade to ensure flawless performance in salty surroundings, protecting the fixture from corrosion.

A sophisticated internal heat-dissipation system was designed specifically for this product and allows it to work at very low temperatures, up to -40°C (-40°F) as well as very high temperatures, up to +45°C (+113°F), ensuring performance in all conditions. It is equipped with Solar Shield technology that protects the engine and internal components from damage due to sun exposure. Skylos is now also available in an adjusted output version – Skylos NV, which is fully approved and does not require any FDA CDRH variance for use in the United States territory.

Shield Family (IP66)

Born to create a new standard of weather-resistant fixtures that are high-performance, ultra-durable, and long-lasting, these IP66-certified lights have unique advantages, not only in performance but also in handling and use. Whether used indoors or outdoors, the high level of impenetrability minimizes the need for

maintenance and the resulting use of time and resources, allowing you to fully dedicate yourself to the show.

HY B-EYE K15 AQUA is the newest member of the IP66 Shield family. It is based on the well-known and unique Claypaky ALEDA B-EYE Technology with rotation and pixel-mapping but now on top boasts a true IP66 protection, with a host of unique advantages, not only in terms of performance but also in the ease of handling and use. So, whether it's dusty or humid environments, the HY B-EYE K15 Aqua has got your back. This benefit not only elevates your performance but also ensures you're making the most of your time and resources. HY B-EYE K15 Aqua is rigorously tested to endure vibration and shock during transportation, extreme temperature fluctuations, impacts from hailstones, electrical stress, harsh surroundings, UV exposure, and much more.

Arolla Aqua (Shield Family – IP66) is Claypaky's top-of-the-range weather-resistant light. It is a true workhorse with an IP66 rating. The challenge was to design a high-power, high-brightness fixture with top-level performance while at the same time limiting weight and size. The dimensions are less than 750mm (30 in) in height and only 38,5kg (85.3 lbs) in weight, thus enabling fast pan and tilt movements. The Arolla Aqua fits a custom white 900 W (7000 K) LED light source, capable of a 40,000-lumen output. This means it can compete with both high-power-range lights (given its output) and medium-power-range lights (given its small size and low weight). Its uniform light beam is another key feature. The high quality of the beam, its density, and the total absence of spurious lights can be appreciated with the naked eye, and its zoom can be adjusted over a linear 5.5°-50° range (9:1). Thanks to the Go-Bright technology, there is no light loss or colour shift when gobos are inserted into the beam. From high-power to medium-power ranges, Arolla Aqua shines as a

versatile solution. Its remarkable dimensions hold unmatched potential, making it the go-to choice for professionals seeking compact, powerful and reliable lighting, without breaking the bank.

Buddylight Claypaky's brand-new automated followspot system follows performers and speakers automatically, quickly and easily. The Buddylight can be used either in an Art-Net or DMX network – by setting up control priority management with the console – or in standalone mode, where it comes into its element. The Buddylight marks a further step towards ever-greater entertainment light automation. It is meant for theatres, auditoriums and conference rooms.

Besides the Classic SkyPanel, ARRI's award-winning native soft light panel with outstanding lumen efficiency, and the Orbiter, the versatile directional LED fixture, which comes with a six-colour light engine and changeable optics such as the 25° and 35° Projection optics, ARRI showcased the recently introduced SkyPanel X, which is the latest addition to the SkyPanel family, providing native soft, native hard, and open-face lighting options.

This all-weather modular system is configurable into various sizes (X21, X22, X23) with eight individually controllable pixel zones per panel. Setting new standards in dimming, colour rendition, output, and beam quality, the SkyPanel X emerges as the ultimate lighting solution for diverse applications, such as cinema-style, broadcast, virtual production, and live events, whether used indoors or outdoors.

With SkyPanel X's modular setup, users can choose between, easily swap, or combine the X21 Dome and the HyPer Optic, creating a soft, semi-soft, semi-hard, or powerful native hard light. With the HyPer Optic—named after its light output for maximum intensity— SkyPanel X becomes an excellent tool for medium and

long throws and collimates multiple single lenses into one single beam. Offering superior low-end dimming and a dynamic CCT range from 1,500 to 20,000 K, the SkyPanel X emulates the characteristics of various light sources. Its RGBACL full-spectrum light engine enhances skin tones and achieves deep colour reproduction.

Engineered for endurance and reliability, the SkyPanel X carries an IP66 rating, ensuring protection against rain, storms, and high-pressure jet cleaning. The luminaire features wireless control, advanced networking options, and an integrated power supply, providing a seamless and efficient lighting solution for diverse applications and workflows.

The concept study of the matching motorized yoke from Claypaky for the SkyPanel X was also presented at the show as it is one of the company's first joint projects with ARRI.

Claypaky

GLP Sets Up to Redefine Lighting



GLP – German Light Products showcased its innovative portfolio in a future-oriented design. The company invited trade fair visitors to climb aboard its all-white 'GLP Spaceship', which also provided the setting for a very special world première.



GLP's JDC1 Hybrid Strobe "set new standards" when it was originally introduced. The German manufacturer has no less a goal in mind with the sensational **JDC2 upgrade**, which was shown for the first time at LDI.

Larger, significantly brighter than the JDC1, IP65-certified and equipped with a 1,025 cm² (159 in²) luminous surface, not only does the visual solid angle increase, but the visibility of the surface is perceived as larger and up to 25% brighter. The saturated colours and exceptional brightness of the 1,728 LEDs provide powerful diffuse lighting. This allows stages and spaces to be completely immersed in colour. An impressive, rich colour environment is created, especially when combined with haze. The specialized black LED masking ensures a black front appearance while eliminating reflection from other light sources.

Other Fixture Highlights:

impression X5 IP Maxx After the extremely successful market launch of the impression X5 Wash 2021, the impression X5 IP Maxx is an even more powerful sister device for applications from greater distances and—thanks to the IP65 version—also outdoors.

The GLP impression X5 IP Maxx emits a luminous flux of up to 24,000 lumens with expanded

colour space, from 37 powerful 40W RGBL LEDs. Like all devices in the X5 series, the X5 IP Maxx is equipped with the new iQ.Gamut colour algorithm, which means it always offers a clean white point with a CRI 90+ / TLCI 90 at 6,500 Kelvin.

Like the impression X5 Wash, the impression X5 IP Maxx also offers an extensive effects package. The new 16:1 zoom mechanism allows a penetrating 3.5° parallel beam as well as a homogeneous wash up to 60°. The compact design with a weight of less than 30 kg is designed so that the fixture can be easily installed in common pre-rig truss systems.

FUSION X-PAR 8Z and X-PAR 18Z

The FUSION X-PAR 8Z <https://www.glp.de/en/products/fusion-x-par-8z?parent=0> and X-PAR 18Z round off the successful series of weatherproof LED PARs with motorised zoom up and down. The FUSION X-PAR 8Z is the most compact and lightest representative in the series. It is a real all-rounder and is suitable for a wide range of applications. At just 4.5 kg, it is also lightweight and is applicable limited spaces. In contrast to the FUSION X-PAR 12Z (120W), the FUSION X-PAR 18Z has a 180-watt RGBL LED for even more power.

GLP

LDI will return with more programs, events, and conferences from 4 -10 December 2024.

LDI

AUSTRALIA

Novatech Achieves Stunning Results within Strict Limitations for Now or Never Festival

Full-service production rental company Novatech took the inaugural festival to the next level by backing acts from around the world with stunning visuals and concert-grade audio

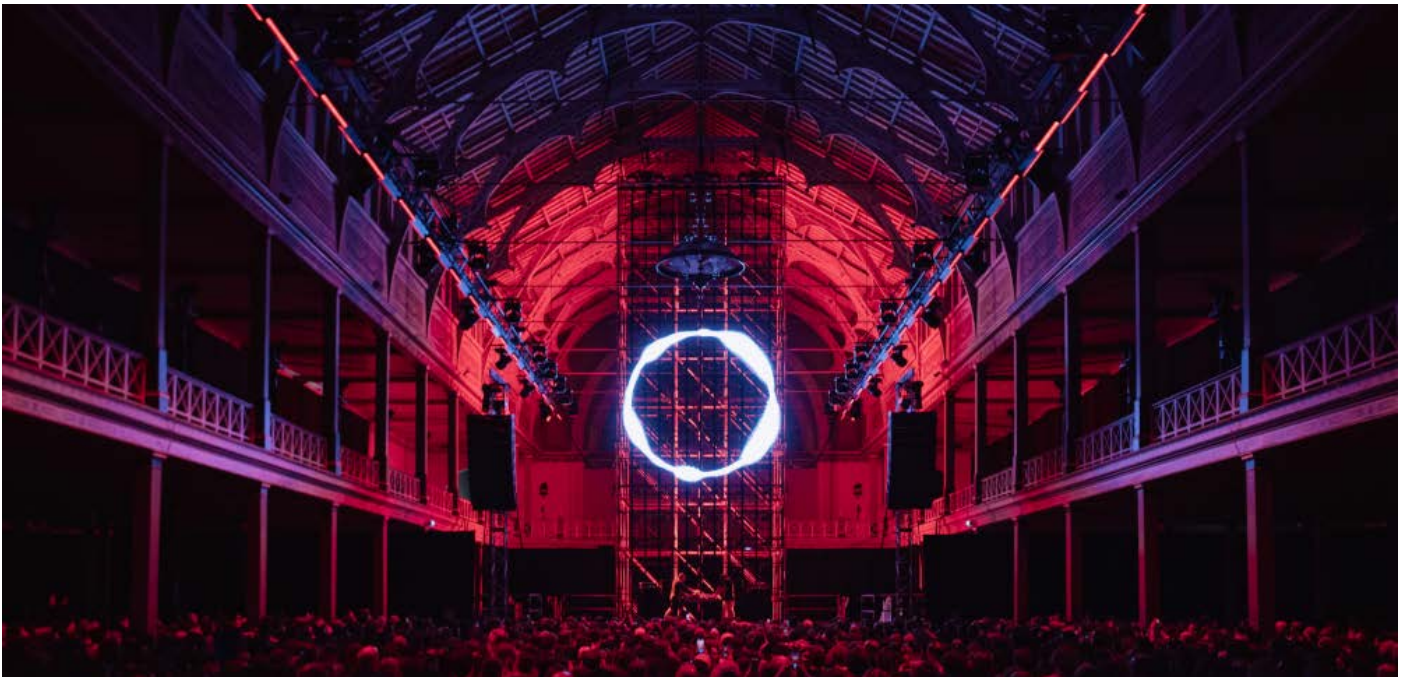


Marking the end of winter, Melbourne's Now or Never festival featured over 300 local and international artists. Exploring potential futures through a program of innovative audio and visual art, performance, visionary thinkers, digital culture, and commissioned work, the festival took over dozens of Melbourne's iconic street locations, art galleries, late-night venues, and historic buildings.

The festival culminated with four nights of live music and visual performances in the 143-year-old Royal Exhibition Building (REB) at the World Heritage Site of Carlton. Highly anticipated sets by

international artists like Kelela and Max Cooper were featured alongside established Australian performers such as CC:DISCO! and dameela.

Gig Control Australia, who was appointed to deliver the event for Now or Never, designed a stunning 16-metre-high video scrim that became a canvas for innovative visual displays. L-Acoustics Certified Provider Novatech co-designed and deployed a system that would be able to cater to events ranging from keynote talks and panel discussions to dance music parties, orchestral performances and 3D shows from



leading electronic artists. The scope of what needed to be achieved visually was extremely diverse.

"The venue's age means it was a very challenging environment," recalled Leko Novakovic, Managing Director at Novatech. "It has a wooden floor and very limited rigging from the wooden ceiling. With weight loading being an issue, the stage was designed around a central scaffold tower that had LED and lighting suspended from it."

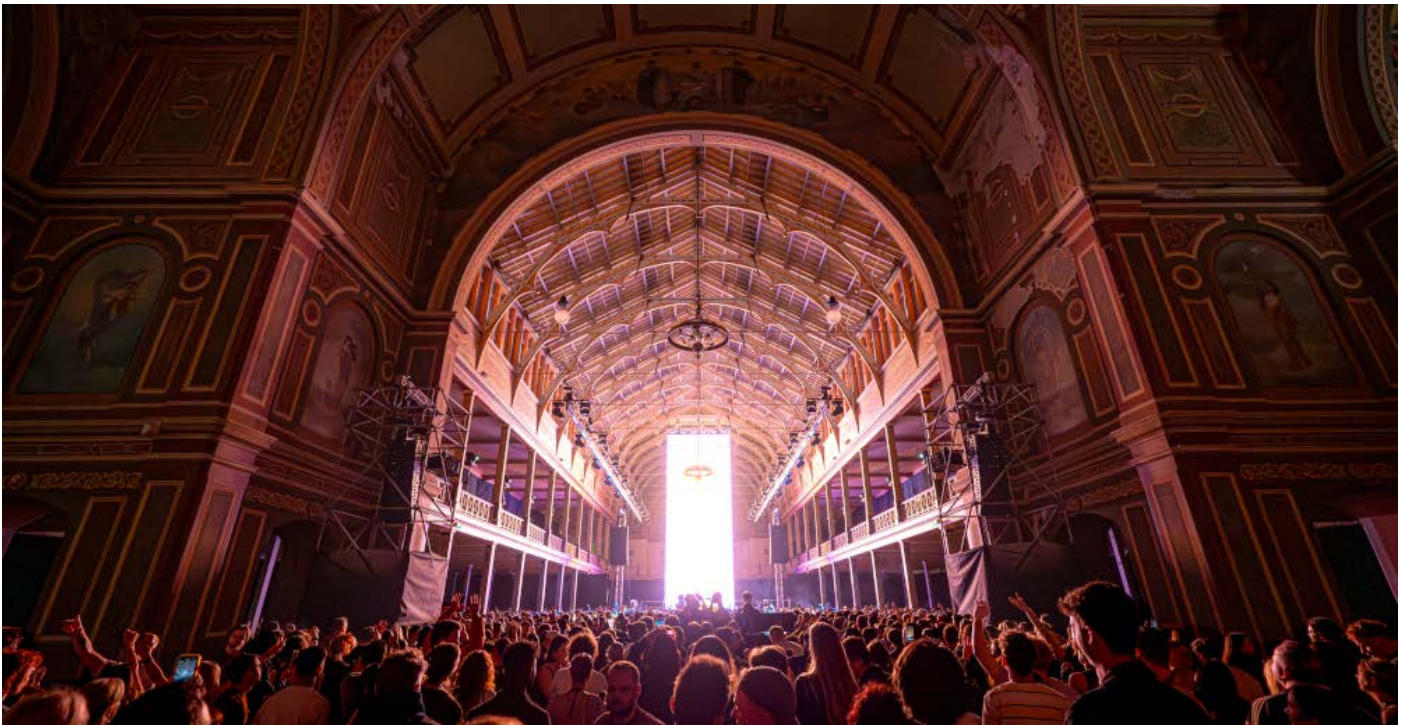


The screen displayed a range of high-resolution customised video content from the performing artists. Novatech supplied a ROE Visual Vanish V8T screen, along with a Brompton 4K Tessera SX40 LED processor and two Tessera XD data distribution units. The set-up stayed in place but was slightly modified each day to suit the varying events.

"Knowing that Brompton offers redundant signal control was very comforting, and the screen configuration allowed us to test it as it was being built," Novakovic continued. "This meant that any modules that needed replacing could be done at ground level before it was raised to its 16-metre position above the stage. Additionally, being able to correct the brightness of the seams allowed for a much more polished look."

The Dark Magic feature, which is part of **Brompton's Tessera software toolsuite**, allowed for subtle onscreen imagery without colour banding and greatly assisted in performances that required lower brightness.

"Dark Magic works by enhancing the quality of the image or video on LED panels when they

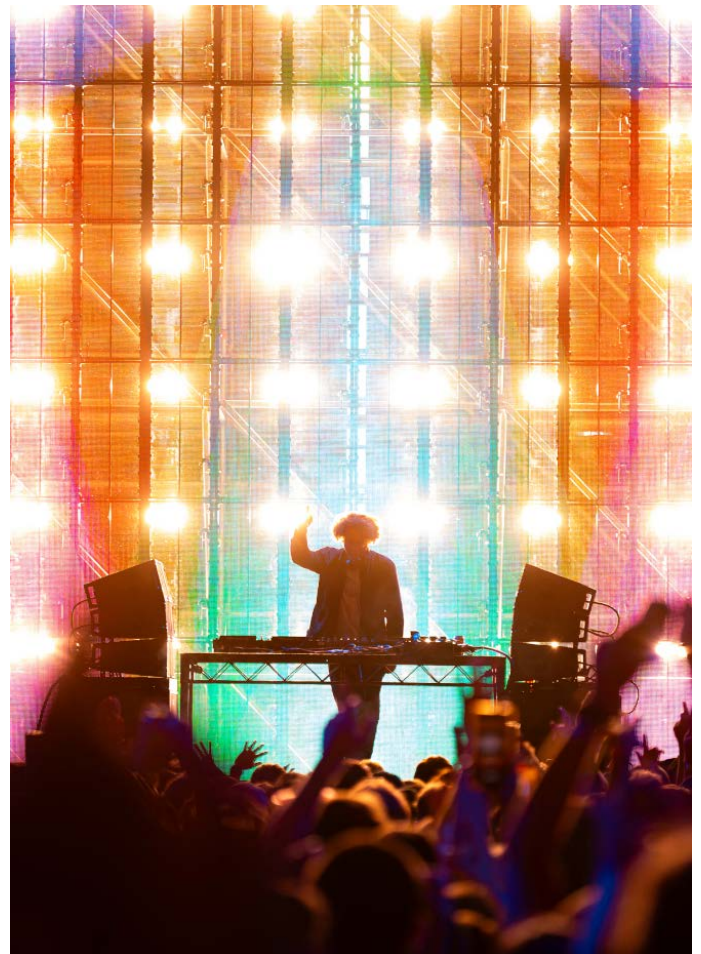


are indoors and operating at low brightness," explained Novakovic. "It helped us to alleviate issues such as loss of delay and banding by processing the video signal up to 26 bits per channel."

Another valuable feature was OSCA (On-Screen Colour Adjustment), which empowered the team to quickly match panels regardless of the LED panel model or batch difference, resulting in a much more unified LED wall.

"The visual set-up took the party to a whole other level," enthused Novakovic. "We wouldn't even think about using another processor as Brompton is the best around. The brand gives the flexibility, reliability and professional feature set our events require."

"It's always exciting to see our processors being used for such innovative projects, particularly with a valued partner like Novatech," added Elijah Ebo, Director of APAC Operations at Brompton Technology. "It's also gratifying to know that the Tessara software features made such a difference to the visual content. Novatech always produces





great results, and this is another great example of how its team chooses the right technology to deliver for its clients.”

As part of the festival, five DJs transformed the heritage building into a pulsating dancefloor, bringing together music from all corners of the world. Aside from stunning visuals and lighting, Novatech’s imperative was to create a concert-grade sound system that would give pristine, full-range coverage to the massive audience while supporting the innovative audio-visual acts.

Leko Novakovic explained that the team needed to pay strict attention to guidelines so as not to cause structural damage to the building. “Calculating the system’s output Peak Particle Velocity measurements associated with ground vibrations was essential to ensure the preservation of the building’s structure,” he said.

Designing within a tall, reverberant hall, Novatech’s solution featured left-right arrays of 8 x **L-Acoustics K2** per side with a delay system of 8 x Kara per side. The adjustable **Panflex**

horizontal directivity of K Series allowed Novatech to direct sound away from empty balconies and reverberant walls.

Four ground stacks of 3 x KS28 subwoofers each provided low-end extension. 12 x Kara boxes placed evenly across the stage provided front-fill, while 6 x Kara were used as out-fill to cover the audience areas on the sides of the main hall. DJs and live electronic music artists on stage received monitoring from 14 x L-Acoustics X15 as well as 6 x Kara over 4 x KS28 subwoofers. 12 x LA12X amplified controllers drove the entire system.

The result was a spectacular closing to a dynamic new event in Australia’s festival scene. “It was monumental to witness one of Melbourne’s iconic, historical buildings filled with the sounds of live music for the first time in over two decades. Novatech is proud to have been involved in delivering a world-class sound system as part of a larger festival that emphasised the highest production values,” concluded Novakovic.

Novatech

INDIA

Unveiling Sonic Splendor

Sound & Light Professionals perfect the Art And Science of Tailored Soundscapes to create audio magic at the Bacardi NH7 Weekender



An initiative by NODWIN Gaming and presented by BACARDÍ Experiences; the BACARDÍ NH7 Weekender began in Pune in 2010 and has since been synonymous with the rise of independent music in India, as the platform has served as an ideal launchpad to spotlight up and coming talent across genres within the Indian music scene while also allowing music aficionados the opportunity to enjoy unparalleled performance experiences from countless global music heavyweights from across the world.

And the 2023 edition of the Bacardi NH7 Weekender was no different; as the festival unfolded as a harmonious celebration of music, culture, and innovation – with a stellar artist lineup featuring global sensations like M.I.A, YG, Daler Mehndi, Jai Wolf and many more enthralling audiences with their unique brand of high-energy performance; and allowing the festival to undoubtedly live up to its moniker as "The Happiest Music Festival."

Hosted at the lush green lawns of Teerth Fields in Pune, Maharashtra between 1st - 3rd December;



the Bacardi NH7 Weekender 2023 witnessed the sprawling Teerth Fields transforming into a musical haven of sorts – as the venue played host to not just power-packed music performances but also offered an assortment of fun activities and amazing FnB experiences that allowed patrons to truly soak in the magic of a world-class festival experience.

With music being the key focus though – Bacardi NH7 Weekender 2023 housed four uniquely curated performance stages – the Bacardi Arena,

Casa Bacardi, 'The Bat,' and the 'Pineapple Groove' – as each of these performance spaces presented an immersive universe of its own for audiences to revel in. This ambitious vision not only demanded meticulous foresight and planning in terms of envisioning every last detail to perfection, but also demanded the highest level of expertise in terms of commissioning; as every aspect of the respective performance sections – from set design to lighting and LED etc – all being entrusted to world-class professionals who excelled in their respective fields of service.

The tangible aspects of each of the performance spaces (for example stage designs, backdrops, visuals etc) beautifully exuded bespoke ambiances that were every bit as visually enchanting in reality as they were on paper while the festival curators envisioned them. Each space undoubtedly sported a unique look and feel – with the 'feel' part of it being coalesced magnificently by the true un-sung hero of the festival i.e. the world-class sonic experience.



Designing a Symphony of Spaces

Music aficionados around the world would attest to the fact that 'sound' is perhaps the most crucial part of a festival's experience – and it's safe to say that the Bacardi NH7 Weekend 2023 got this aspect absolutely spot on.

With each performance space demanding meticulous planning to ensure an immersive sonic experience that would not just accurately complement the theme of the stage, but would also ensure that no bleed-over or interference would impact any of the adjacent spaces - the responsibility of orchestrating this sonic feat fell into the capable hands of Sound & Light Professionals (SNL Pro) – one of India's leading event equipment rental and technical solutions experts.

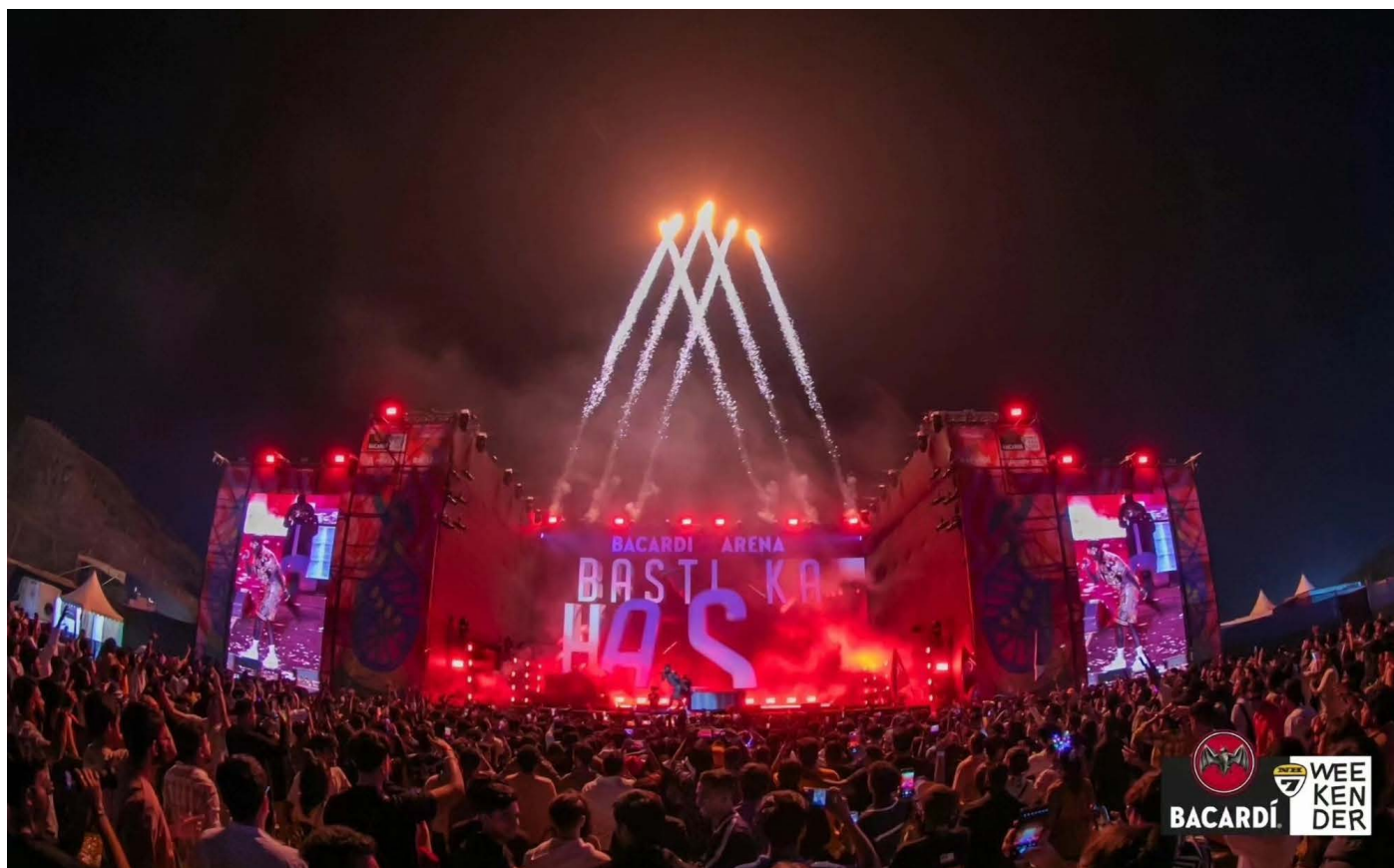
Renowned for their prowess in handling large-scale events and mega productions; SNL Pro's journey at the Bacardi NH7 Weekend 2023 began

with a comprehensive analysis of the festival design and layout, which then filtered down into micro-analysing the specific needs of each performance space. Not only did this involve a detailed study of the space dynamics of each of the performance sections; but it also demanded a careful consideration of each of the individual artists' requirements who were scheduled to perform at the respective stages.

Armed with all the necessary information, team SNL Pro utilized industry leading design softwares to simulate sound system designs for each of the performance spaces; and after a fair bit of work, the team were able to narrow down on comprehensive yet bespoke systems for each stage that would not just meet but exceed all expectations.

Crafting Immersion with Precision

Starting off with the main stage, a.k.a the Bacardi Arena – and this performance space witnessed a



truly immersive sonic marvel with a meticulously crafted comprehensive L Acoustics loudspeaker system; as a stereo FOH rig featuring 13 units of the K1 and K2 line array modules on each side ensured optimal dispersion and coverage, while a total of 24 SB28 subwoofers assured thunderous low frequencies. The sonic experience at the Bacardi Arena was further enhanced with a centerfill solution using L Acoustics A15 Wide concert loudspeakers that not just ensured an immersive experience for audience members located directly in front of the stage, but also added qualitatively to the overall soundscape. This world-class aural experience was further extended to guest engineers as well; as they were treated to the excellence of DiGiCo's SD10 digital mixing console at FOH, allowing them to fully explore the limits of creativity and sonic intuitiveness.

Sharing a similar space profile, the Casa Bacardi performance area mirrored the Bacardi Arena's

sonic brilliance, as the loudspeaker setup remained largely the same, barring the exception of a slightly adjusted subwoofer count of 12 units of the SB28 subwoofers; while the FOH featured the current industry favorite DiGiCo Quantum 338 digital mixing console for guest engineers to work their magic and deliver a truly supreme auditory experience.

The third performance section, referred to as 'The Bat', not only stood out with its visually enchanting dome structure as the primary stage backdrop, but also left an indelible imprint on the ears and minds of the audience with its impeccable soundscape; as team SNL Pro deployed a stellar stereo FOH rig featuring 9 units of the K2 line array modules complemented by 8 units of SB28 subwoofers on each side, and multiple units of the KARA concert loudspeakers as the centerfill reinforcement. Guest engineers at 'The Bat' were provided with AVID's famed S6L digital mixing console at FOH to ensure an



enchanting sound experience that matched the energy and intensity of the performances on-stage.

Finally, the smallest yet quirkiest of all the stages i.e. The Pineapple Groove, exuded a truly unique charm, as SNL Pro chose the compact yet powerful Aero loudspeaker rig from DAS Audio for the FOH, comprising 8 units of the Aero 50 three-way active line array modules and 8 units of the Aero 218 subwoofers on each side; along with multiple units of the VRX loudspeaker modules from JBL deployed as the centerfill reinforcement. Once again, AVID's S6L digital mixing console crowned the setup, offering guest engineers a seamless and upbeat mixing experience within this intimate space.

In crafting the auditory tapestry of the Bacardi NH7 Weekender 2023, SNL Pro's technical mastery played a pivotal role. The marriage of cutting-edge technologies, expert analysis, and a keen understanding of each stage's unique characteristics resulted in an event where music seamlessly intertwined with the environment. Team SNL Pro's innate understanding of the nuances shined brilliantly in the fact that they recognized the importance of artist comfort

and therefore afforded performers across all stages with top-tier wireless and RF systems from industry giants Shure and Sennheiser. This commitment to excellence allowed artists the freedom to express themselves without constraints, contributing to the overall success of the performances.

Harmonizing the Festival Experience

"A job truly well-done by team SNL Pro. Words can't express how vital their role has been in ensuring that the Bacardi NH7 Weekender continues to live on as The Happiest Music Festival!" exclaimed a senior member of the festival curation team as they praised team SNL Pro for their efforts.

And as the echoes of the Bacardi NH7 Weekender 2023 lingered, it remains evident that beyond the artist lineup and vibrant atmosphere, the festival's sonic spectacle was a key ingredient in making it a truly joyous and unforgettable experience for all attendees.

SNL Professional

NH7

Earn Course Certificates & CEU's ANY Place. ANY Time.

SynAudCon is the world leader in online training
for audio practitioners.

Courses available that serve all levels of expertise
and on a wide range of topics.

SynAudCon focuses on the principles:
When the “why” is clear, the “how” becomes intuitive.

**When knowledge increases,
opportunities will follow.**



SynAudCon
www.prosoundtraining.com

**systems
integration**asia