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Robe ramps up the horsepower for Equitana

Equitana is a four-day equine extravaganza staged every two years at Melbourne Showground in Australia celebrating the spirit and passion of Australian equestrians and the integral place that horses play in Australian hearts, minds, history, culture, and society. The last such event was in 2018 as the 2020 one was canned due to Covid, so this year, organisers GTR Events brought it back bigger, better, and more brilliant than before!

Lighting designer and technical producer for the event Marcus Pugh specified Robe ESPRITES and MegaPointes as primary moving lights on his lighting scheme for the 2022 'Mane Event', a jaw-dropping entertainment spectacle staged on the Mane Stage of the Grand Pavilion venue.

This all-action night for all horse lovers showcased multiple horse-based and related skills and featured numerous breeds and equine performers! The Mane Event was presented by Australian horseman Guy McLean, known for his magnetic wit and charismatic personality as well as his almost supernatural connection with horses which delighted the 4,260-capacity sold-out audience for Mane Event.

Marcus also lit this show in 2018 but in a different venue. The Grand Pavilion is a large 89ft high 6-pole 'big top' style tensile membrane structure which is the Showgrounds' centrepiece. In this case, a 70 x 30 metre sand arena was created inside to accommodate all the horse activities.



ESPRITE®

Rigging – with 6 poles – is a major challenge and creativity is a must, so Marcus and the team from Melbourne based rental specialist Harry the Hirer Productions, who provided all the lighting, audio, vision, staging and rigging equipment, responded with great enthusiasm.

They designed a custom bridling system which has been engineered to take enormous horizontal loads off the King and Queen poles which enabled the installation of trusses spanning the 36 metres between the poles, plus a large central four-sided LED which looked like it was suspended in space!

A diversity of lighting hardware was used including around 150 moving lights of which the 24 x Robe ESPRITES and 18 x MegaPointes were the 'workhorse' fixtures.

ESPRITES have become a "go-to" profile moving light for Marcus who thinks that MegaPointes are a perfect combination with them, and both sets of fixtures were rigged prominently in the side trusses between the king and queen poles.





The ESPRITES were used for highlighting and texturing parts of the arena and for throwing projections onto the tent skins which looked impressive.

Marcus thinks the output is "best in class," with a great balance between output and beam quality.

The gobo set is usable in almost any application and the animation wheel design with the 'wave edge' is a stroke of genius and offers a unique look when half inserted. All of these very cool effects were used to transform the roof of the venue into a sea of patterns and colours. He mentions that they are great for lighting and keying faces and producing fantastic skin tones.

Harry the Hirer Productions first bought ESPRITES in 2019, and at the time were one of the first rental companies in Australia to invest in Robe's next generation LED moving light technology. Marcus has been using them solidly ever since.

Four additional ESPRITES were deployed on the two RoboSpot systems – two per BaseStation – offering scope to follow what were often extremely fast-moving targets with horses galloping around the arena. Marcus appreciates the ease of use and flexibility that RoboSpot brings to a show, "You don't have to rig any follow spot towers, so that also saves time on the build," he noted.

www.avltimes.com

The RoboSpot ESPRITES were rigged on special trusses attached to the main tent poles, and when not being used for following, were repurposed for other tasks while lighting the main show - another very handy feature of running a RoboSpot system. The operators were located backstage.

RoboSpots have been another great value purchase for Harry the Hirer Productions, equipment also acquired in 2019 and supplied by Robe's Australian distributor, Jands. They now rarely use conventional follow spots.

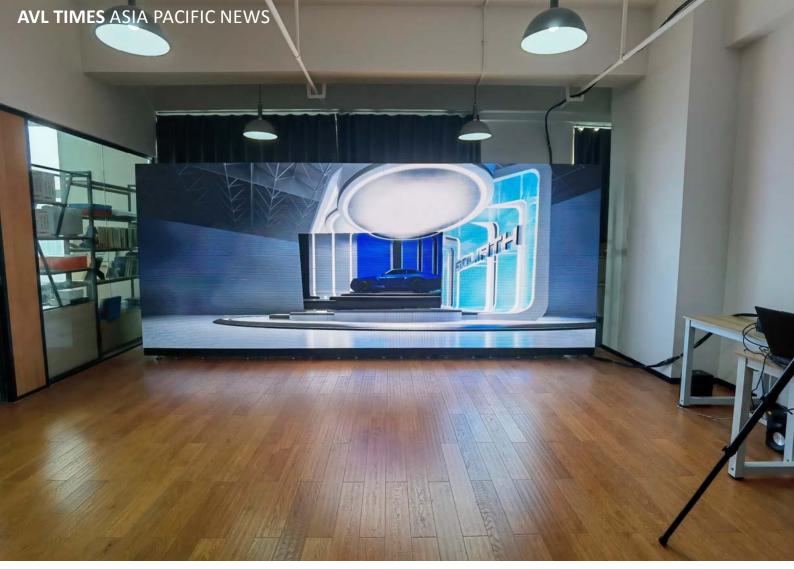
MegaPointes are Marcus's first choice of beam moving light and have been for some time. "They're fantastic for all the big accents and WOW moments!" he enthused, adding that 24 x MegaPointes is enough to create serious visual impact!

They were all on the side trusses rigged between the big top's king and queen poles.

Marcus designed and managed the lighting, audio and video systems with grandMA 3 programming by Cam McKaige and Chad Spenser.

www.robe.cz

Photos © Kattelyn Nash



INFILED DB series screen for seminar presentations at the Yangtze Delta Region Institute

In May 2023, INFILED built a 10square-meter DB series screen for the Yangtze Delta Region Institute of Tsinghua University in Zhejiang. This high-definition screen was installed in a seminar room of the institute to present research topics for researchers to watch and discuss together.

Yangtze Delta Region Institute of Tsinghua University is an institution dedicated to technological innovation and has 8 provincial first-class research and development platforms. Formerly, it used equipment such as TVs and projectors to display research content, but these two have their shortcomings, the former is not large enough, and the latter has insufficient brightness.

Therefore, the institution chose the DB series LED screen when updating the display solution of one of its seminar rooms.

In terms of screen size, the DB series screen was customized to the size required by the institution. Since each cabinet of this series had a size of 500*500*75.5mm and a weight of only 8.8kg, large indoor screens can be built without much laborious installation work. The ten-square-meter screen installed in the seminar room ensured that the information displayed on the screen was seen by everyone in the room.

Moreover, with a pixel pitch of merely 2.6mm, the screen performed well in the clarity of content presentation; besides, it also featured a high contrast ratio of 5000:1 and 14-bit greyscale, which can display vivid and smooth color gradients. By the characteristics of high-definition and accurate color rendering, this quality screen played a role in the institution's topic research display.

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About DB series

DB series, a product designed for indoor applications, can be used in showrooms, virtual filming studios, live broadcast studios, and so on. It has a horizontal and vertical viewing angle of 160 degrees, and a refresh rate of 3840Hz, showing excellent playback effects. In addition, this series of screens also support being made into a curved screen, reaching an angle of ±5 degrees.

About INFiLED

INFiLED is an international high-tech enterprise specializing in the R&D and manufacturing of large-scale LED displays. INFiLED's products were exported to 87 countries and applied in various fields including DOOH, live events, sports, retail, corporate, and so on. Focusing on innovation and improvement, INFiLED is striving to be the best in the LED screen industry to enlighten the world with a visual feast.

www.infiled.com

info@infiled.com



KV2 welcomes students from the ITE in Singapore for factory tour and demo program

Six students and two lecturers from the ITE Nitec in Electrical Technology (Lighting & Sound) course recently enjoyed a full factory tour and demo program at KV2's headquarters in Milevsko, Czech as part of a trip that also included a visit to the ROBE factory in Czech, the Prague Quadrennial festival – in which KV2 participated via the Sound Kitchen – and then a visit to Sennheiser in Berlin.

The Nitec (National Institute of Technical Education Certificate) in Electrical Technology (Lighting & Sound) is an engineering-centered, practical course that teaches students the fundamental skills required to produce live shows for a broad range of entertainment industry applications, both physically and virtually. The trip to Czech was a perfect opportunity for the students to gain first-hand experience of how KV2's loudspeakers are developed and built, and then to hear the results of these processes with live demos.

KV2's Sales Director for Asia, Robert Adrian, who was responsible for

organising the KV2 visit, was very pleased with the outcome, and in particular the students' reactions to what they saw and heard. "Our Technical Projects Director, Andy Austin-Brown, conducted all the demos and gave the students a lot of insight into the principles that govern KV2's vision of audio and what makes great sound. It was pretty intensive, but judging by the number of questions he was asked and the discussions they provoked, the students clearly had a great time."

"KV2 is very particular about everything that goes into their products," says Ng Jing Kai Tim, one of the students who participated in the visit. "Components are carefully selected for each loudspeaker according to the application. We learned to 'trust our ears' – there is no 'best' loudspeaker for all applications." Wong Chee Hong was also impressed by what he saw. "KV2 builds their loudspeakers according to their vision, which is unique. Each loudspeaker is then fully tested to ensure it meets their exacting requirements."















students around our facility, especially when they truly engage with us," says Austin-Brown. "We're talking to the engineers and technicians of tomorrow, and it's wonderful to be able to transmit our passion for audio and for building the highest quality products possible to the next generation."

"It's always a pleasure to show

The visit concluded with a short presentation where each of the Students and their Lecturers was awarded with a certificate of participation.

www.kv2audio.com

www.avltimes.com



Ledman Super-COB creates new highlights of China's V Valley to present the beauty of the "culture + technology" combination

When it comes to Hunan province audio and video industry, reference to Malanshan is a must. Dubbed as China's V Valley and committed to exploring and promoting the development of China's digital video industry, it is a foregoer of China's film and television, radio and television program production.

To ensure that the recent China New Media Conference in Malanshan ended up a success, Ledman team, with an indepth understanding of customer needs, developed a detailed plan and completed the installation task with quality and quantity guaranteed. Strict quality control and safety management were carried out during the installation process to ensure that every detail meets the highest standards. The brand's UHD Super-COB energysaving cold screen, which features supersize, super resolution, super pixel density, and cool, sci-fi stunning visuals, has become a new feature, new highlight and new symbol of Malanshan video cultural and creative industrial park, deeply impressing the participants of the China New Media Conference.

Ledman had its UHD COB display favored by Malanshan, showing Ledman's technology leadership and brand influence in the industry. Ledman, China's first LED display high-tech listed company, and manufacturer of ice and snow five rings for the 2022 Beijing Winter Olympic Games opening ceremony, with focus on 8K UHD video industry and contributing to 8K development, is one of the domestic

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COB advanced technology research and development pathfinder.

In the Fine Pixel Pitch COB Market Share **Rank First**

Source: Discien China's Fine Pixel Pitch LED Display Market Research Data

Based on Ledman's own patented core technologies, including flip-chip COB advanced technology and Super-COB display technology, Ledman has delivered to Malanshan the UHD COB energy-saving cold screen that features a resolution of 6400*12600 and contains 80 million pixels.

This large screen captures more image detail and has a wider color gamut. The image color is realistic and full, and the display quality is delicate and clear, making it an ideal solution for the presentation of detailed content, such as UHD videos and ultra-high-resolution images.

Capable of true restoration of natural colors, this COB UHD energy-saving cold screen has low surface temperature and low power consumption, making itself a really cost-effective energysaving cold screen product, perfect for users' close experience.

Ledman COB UHD display series products operating in the industrial park are of great significance for Malanshan in the development of "culture + science and technology". It will help Malanshan promote the application of UHD video technology in all links of the cultural industry chain. It will help create multiple advantageous application scenarios and deepen industrial integration, with an intelligent display terminal as the carrier to pursue breakthroughs



<u>www.ledman.com</u> sales@ledman.com www.linkedin.com/company/2319436/admin/feed/posts/



Zepp Hall Network expands with new STM-equipped concert venue in Malaysia

A subsidiary of Sony Music Entertainment (Japan) Inc, the Zepp Hall Network has expanded with a new concert venue in Kuala Lumpur, equipped with a NEXO STM line array. Located in the heart of the city, the new hall has a capacity of 2,414 and boasts similarly high-quality facilities as the existing Zepp Hall Network of eight performance spaces in Japan and one in Taiwan. The availability of a world-class, pre-installed sound system is central to the audience experience, while also making set ups and sound checks easy for performers, while saving costs for event organisers.

Designed in collaboration with Bertrand Billon from NEXO's Engineering Support Team using NS-1 configuration software to ensure maximum throw efficiency and even SPL coverage, the STM system was supplied and installed by Concept Associates (KL) Sdn Bhd, a well-known distributor and audio-visual and lighting system integrator in Malaysia. The STM system is configured in left and right arrays using 8 x flown cabinets of M46 Main modules supplemented by 8 x B112 Bass Extension modules per side. Pairs of M28 Omni modules are suspended from each cluster to provide down fills for the first few rows. The subwoofer system consists of 9 x ground stacked S118 bass units on each side with two additional subs below the stage centre for maximum coverage.

The system is further supported with 4 x mobile units of NEXO GEO M10 line array modules at the stage front which can be deployed as necessary to provide more fills for added clarity. Flexible stage monitoring is provided by 4 x NEXO P12 point source speakers, with an additional 12 x PS15R2 cabinets also available for use. Pairs of NEXO GEO M12 cabinets are stacked above pairs of LS18 subs for stage side fills.



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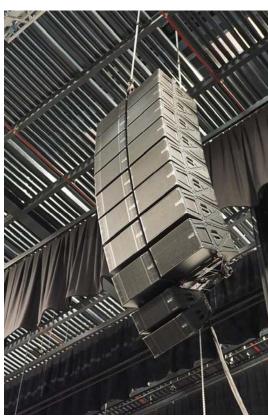


Amplification and processing come from 18 x NEXO NXAMP4X4 Powered TD Controllers equipped with Dante audio network cards, providing a total of 72 amplifier active channels.

With additional support from NEXO Engineering, the system was set up, aligned, and tuned for high SPL levels and optimised frequency response throughout the hall. "From the moment the system was first turned on, we could sense the huge volume of sound and dynamics available to throw this venue into a frenzied party mood at any time" comments the team from Concept Associates. "And the balcony seats get to enjoy the same sound pressure levels, linear distribution, and full tonal performance as the audience on the floor."

Commenting on behalf of Zepp Hall Network Inc, Operation Division VP Shinichiro Honda adds: "By ensuring our KL event space meets the highest standards of our hall networks in Japan, we are confident that we can ultimately contribute and help Malaysia's entertainment and events

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industry to continue growing to new heights by offering a world-class concert venue and event hall."

www.nexo-sa.com



E'spec Inc. had a successful exhibition and lighting show which is focused on Silver Star luminaires

Silver Star's Japanese distributor E'spec Inc hosted the professional audio & professional lighting exhibition "kizaiten2023" and made a great show. It was held in Tokyo and Osaka for a total of four days. The lighting show attended by more than 1,000 industry insiders contributed to the promotion of Silver Star's new products and technologies.

Among the new products, NEPTUNE 300 WBS and PLUTO 8000 WBX are the most popular products! Both two models are adopting RGBL LED source, comparing with the same range RGBW moving wash, the RGBL is 30% brighter; not only the RGBL has a wider color spectrum but also higher CRI reaching to 85Ra. And most of the visitors said, both 2 products will become the leading product in this market!

Also the NEPTUNE550HYB, it is the new launched product which is very popular

in the market as well. It is adopting 450W high efficient LED hybrid, with CMY color mixing and non-stop animation wheel, which can provide lots of vividly effect, like a living fire, ocean, cloudy. It has amazing narrow zoom 2.8° can make a strong beam effect, the wide zoom angle 33° can be an even wash as well. It is a very competitive product in the current market!







NEPTUNE 300 WBS











NEPTUNE 550 HYB



ECLIPSE PRIME HEX

Color Consistency System 智能色彩管理系统 4.0

For the ECLIPSE PRIME HEX, it is full spectrum Ellipsoidal with CCS technology, which can make sure the color consistency. And it has a super high Ra and R9, greater than 95; and it has different sections of PWM, can achieve no flickering at all. It is a perfect product for theatrical, studio, TV and multi-function hall!

www.yajiang.cn

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Giant LED spherical screens amaze the world, Unilumin ignited Riyadh Season 2022 in Saudi Arabia

The MSG Sphere, the world's largest spherical entertainment venue, lit up its spectacular LED screens for the first time at its Fourth of July celebration in 2023. It is said that this LED spherical screen has a capacity of 20,000 people, including 17,600 seats and a further 2,400 standing spaces so that it can host live entertainment and concerts while showcasing a wide range of visual content across its exterior.

It is reported that Unilumin Group also built a large LED spherical screen in 2022, amazing the world. In the Riyadh Season 2022, Unilumin independently created a spherical LED screen with 35-meter diameter, breaking the 2022 Guinness World Record. Unlike any flat or angled display system, every LED spherical screen is customized based on its diameter and inner structure. In this project, Unilumin has provided a complete integrated solution for the LED spherical screen, including project creative design, large-scale outdoor steel structure design, customized LED screen modules, programmable

digital control system and software, spherical digital creative content, etc.,

This spherical screens is not only an stunning aesthetic artwork but also a functional scene that can host entertainments. The sphere exterior was illuminated every day and night with immersive digital contents, attracting tourists from all over the world. Furthermore, inside the spherical screens, it can be used as a venue for catering, live music, immersive experiences in cinema and performance, etc., which support thousands of jobs and deliver billions



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of pounds of economic benefit for Saudi Arabia. Now it has become the new commercial landmark for Saudi Arabia's.

Combined with art and entertainment, business, catering and other forms in the city, Unilumin built a truly immersive entertainment space in the city, which provided a new idea for the creation and efficient operation of LED spherical screen.

In addition to the spherical screens, Unilumin provided a total of more than 10,000 square meters of LED ceiling screens, outdoor high-definition, creative digital contents and software control systems for the Riyadh Season 2022 project. Through immersive digital content and viewing experiences, people can enjoy different cultures of China, the United States, France, Japan, Greece and other countries and regions in the Boulevard World park.

Actually, the cooperation between Unilumin and Saudi Arabia can date from Riyadh Season 2021. Unilumin has supplied nearly 7,000 square meters of LED high-definition outdoor displays and creative contents for Riyadh Season 2021 project, which helped Saudi Arabia transform to the future science and technology economy.

According to Saudi Arabia's state news agency, relying on the immersive experiences created by LED Metasight

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technology, Riyadh Season has cumulatively attracted 30 million tourists from all over the world and created 335,000 jobs, which created unimaginable commercial and social value.

As the representative of Chinese enterprise, Unilumin will continuously contribute China's technology and wisdom to the world.



www.unilumin.com



QSNCC receives major technological upgrades by HARMAN Professional Solutions

To provide the Queen Sirikit National Convention Center (QSNCC) with versatile audio and control solutions, Mahajak Development, Stonehenge Inter and Atkris Co. Ltd collaborated with HARMAN Professional Solutions to develop a system featuring JBL Professional, Crown, Soundcraft and more.

Following extensive renovations starting in 2019, the Queen Sirikit National Convention Centre reopened in late 2022 with 300,000 square meters-three times larger than the original venue layout-available for a variety of events and activities. Along with increasing space, deploying stateof-the-art technology throughout the QSNCC was a key priority. Owners of the center hoped that doing so would not only ensure the QSNCC's long-term success and adaptability, but also strengthen Thailand's global position as a world-class MICE destination for both national and international events.

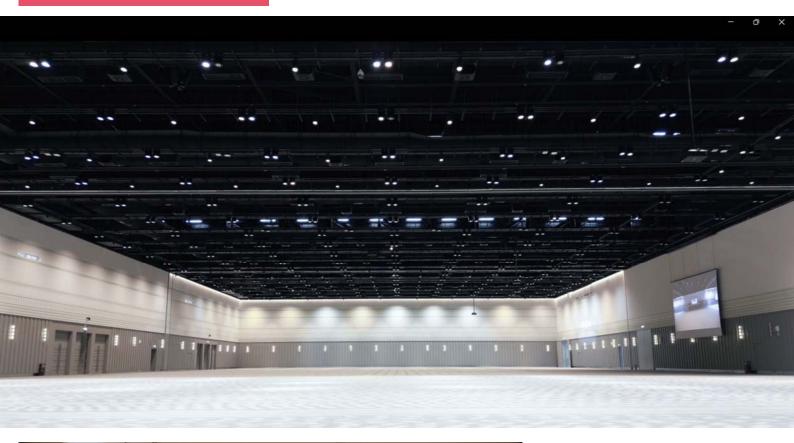
To meet this request, HARMAN Professional Solutions partnered with Mahajak Development, Stonehenge Inter and Atkris Co. Ltd to tailor a bespoke solution combining worldleading products from JBL, Crown, Soundcraft, dbx and BSS.

The QSNCC consists of three main zones: eight large halls, four plenary rooms and four ballrooms. Each area sports an audio system featuring JBL Control 300 Series ceiling speakers and VPX700 Series speakers. The former incorporates JBL's legendary sound quality and technology into discrete mounted enclosures designed to blend into ceilings and walls, while the latter utilizes custom JBL transducers for higher power handling, lower distortion and reduced power compression. All three zones' respective systems are powered by Crown CDi Series amplifiers withBSS controllers providing system control.

Additionally, there are 50 meeting rooms spread throughout the conference center with individual audio and control systems. In each of these rooms, the installation team deployed JBL Control 10 Series ceiling speakers an ideal solution for medium-sized spaces like conference rooms—



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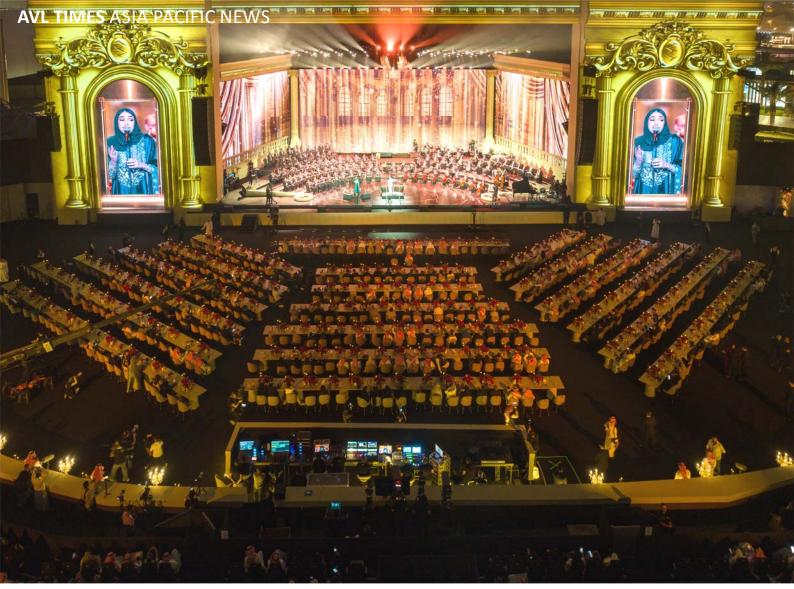
powered by Crown CDi Series amplifiers and controlled by a Soundcraft Ui Series digital mixer and dbx sound management system. Finally, the center's various public areas also feature JBL Control 10 Series speakers, Crown CDi Series amplifiers and BSS sound processors.

A spokesperson from Queen Sirikit National Convention Center reported that the installation process was smooth and well-organized, and that the team delivered outstanding dedication and quality service. They also noted that HARMAN Professional Solutions never fails to provide reliable solutions that help create immersive experiences for visitors.

"At HARMAN Professional Solutions, we continually embrace new innovations and technologies to deliver excellence for our customers and this project was no different," said Amar Subash, VP & GM, HARMAN Professional Solutions of APAC. "We are delighted to witness the successful re-opening of Queen Sirikit National Convention Centre and we appreciate the opportunity to collaborate on this leading international MICE venue."

www.pro.harman.com

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RST chooses Claypaky fixtures to light a tribute to Mohamed El-Mougy in Saudi Arabia

RST (Resources Stage Technologies), an events solutions company based in Dubai, used an array of 260 Claypaky HY B-EYE K25 washes, Mini-B LED moving lights, Xtylos Aqua, Sharpy X Frame hybrid fixtures and Sharpy Plus Aqua moving heads for a tribute to late Egyptian composer Mohamed El-Mougy at Abu Bakr Salem Stage, an outdoor venue in Riyadh, Saudi Arabia.

Robin Thomas of RST selected 260 Claypaky fixtures to be installed on stage, around the décor and on the roof of the structure illuminating the stage and the audience to everyone's delight. "The design may not have been out of the ordinary, as it was a classical traditional setting," Thomas notes. "But with a 20-meter height, a stage spanning 40 meters and more than 100 musicians, it takes something special to color that setup." He chose 40 HY B-EYE K25s as "the strongest wash lights available" for the task. He deployed 60 Xtylos Aqua for their laser sources' ability "to maintain color intensity, which comes in very handy in outdoor installations of that size."

Sixty Sharpy X Frames were used to target the band on stage. "this is by far the best fixture I have ever worked with, considering its size and price. Thomas points out."

Sixty more Sharpy Plus Aquas were picked for their zoom capabilities widening the spot to match the event's classical theme, he notes. In addition, 40 compact Mini-Bs focused on the chandeliers on stage for light-on-light effects. "Claypaky fixtures never disappoint and never fail to impress," Thomas reports. "They are adaptable

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and can be used for any kind of event. Currently, they make up the biggest part of our lighting inventory." Thomas also gives kudos to the Claypaky team. "They've always been supportive, and we greatly appreciate our professional and personal relationship." He extends



his thanks, as well, to "everyone else involved in the event, as it takes a whole team to create something so beautiful."

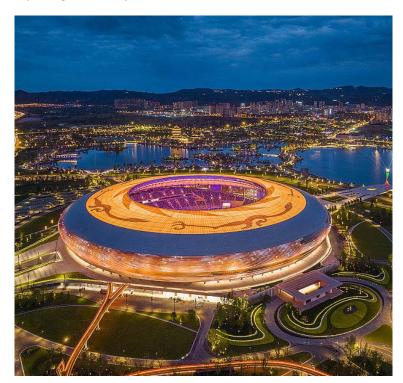
www.claypaky.com



Silverstar and Arctik fixtures light up the "ChenDu World University Games Summer"

In the 2023 ChenDu World University Games Summer, presented a "green, intelligent, dynamic and shared" sports event for the people of the world.

Neptune 550 Hybrid provides high-quality light effect. Multi-color collocation creates, integrates light beam, wash and pattern functions, and provides "light power" for the opening ceremony site.









QUAKE 27

Dongan Lake Sports Park is built with innovative light art design.

ARCTIK QUAKE 27Q floodlights with RGBL 4 in 1 LED light source are installed around the venue to brighten the facade and outline. ARCTIK PIXI MID floodlights are delicately arranged at the top to enhance the sense of technology and power of the building and create multiscene presentation under different lighting colors.

Yajiang CCS intelligent color management system ensures the

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consistency of color between lights, and uses AI technology to match data for rapid correction, to improve efficiency and accuracy.

The beauty of the East has become the focus of the world time and again.

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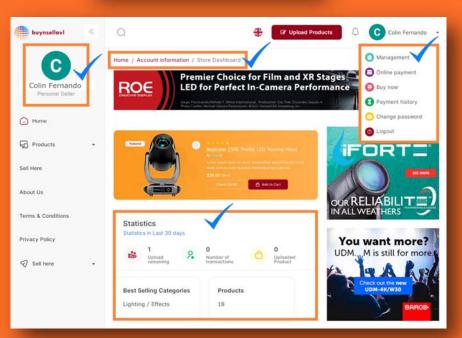
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Expo City Dubai converts to grandMA3

Expo City Dubai is "a human-centric" metropolitan vision of the future currently in the making, and being developed as a large district with offices, homes, exhibition spaces, convention centres and entertainment venues on the site of Dubai's impressive Expo 2020. Right at the heart of this is the Al Wasl Plaza, a large spherical plaza complete with a lush garden, covered by an expansive semi-translucent dome which is fully video mapped and contains around 600 moving lights.

With the repurposing of the venue for its post-Expo life, Al Wasl Plaza's lighting has recently been reprogrammed to run on a full grandMA3 control system platform by a team led by Fabrizio "Ganz" Ganzerli.

Italian production specialist Agora is the technical services and equipment supplier for the space coordinating all the sound and lighting requirements with around 40 crew onsite. With grandMA3 hardware already specified for Expo 2020's lighting control, the setup and programming work for the Expo period started in March 2021 and was programmed in Mode2.

In September 2022, with the post-Expo transformation well underway and the new entertainment season upcoming, Fabrizio explained that while they started where they left off, in this time, the new grandMA3 software releases had also advanced substantially, so he was confident to switch the system to a full grandMA3.

A grandMA3 full-size and a grandMA3 light are in the control room running with 16 x grandMA3 processing unit M and two grandMA3 processing unit XL. A WYG suite onsite mirrors this exact configuration which can control up to 115,000 parameters.

Fabrizio explained that the showfile was organised as one container holding all

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the pre-programmed shows playing in the venue which are called up via MIDI note so the correct showfile is loaded. Each time a new light show was added for the current season, it added to the master showfile, which ended up being substantial.



The basic lighting system comprises 630 moving lights and around 30,000 LED 'pixel flowers' and stems which are distributed around the garden, all individually mapped and controlled via a disguise media server. There are also 3000 strobes, and six remote follow spot stations, so with overlays, some shows have over 2000 lighting cues between the moving heads and the flowers. The data network is an essential tool for the stable and flexible control and management of all these elements. It runs on an optical fibre backbone to all the main switcher points, and the shows are programmed over 13 x VLANs accommodating a mix of MA-Net3, ArtNet, FollowME and disguise protocols.

The DMX signals are transported in ArtNet and converted to DMX via 100 x PathPort and Netron switchers which are distributed all around the venue and across the garden area. "When I realised the software was ready, I knew grandMA3 was the only way to go with this venue as this is the control system of the future," noted Fabrizio.

Ahead of the transition, the crew were made aware of and familiar with the new graphical interface as it related to the new features. Fabrizio also organized the console layouts maintaining the same logic, having reference points for identifying the fixtures. "It was a big step forward for them too, but everyone was super excited to enter the new world of grandMA3, knowing that this will be the future for the next few years!"

Using the possibility to convert a grandMA2 showfile to grandMA3 showfile, he diligently transposed the showfile with over 15,000 cues, around 1,000 assigned playbacks and 7,000 presets, complete with Cues, Patch and Presets. "This was faithfully transcribed in every detail" together with Cue parts and single channel timing.

Fabrizio and his colleague Francesco Ettorre then knuckled down to the intensive task of rewriting all the Macros and Effects which in grandMA3 run on a completely different system.



To compare the old showfile with the new in real time, they kept a console in Mode2 connected to WYSIWYG and another in Mode3 (with the new showfile) connected via ArtNet to the first, and, utilising a simple MACRO for enabling / disabling ArtNet-IN, could see what was happening in the original file and replicate it in the new quickly by switching between the two. Cue-by-cue all the Effects were rebuilt through the Phaser Editor, and in between all of this, the daily regular show and performance schedule continued.

Fabrizio finds the new Phasers "very powerful, simple and fast" and thinks the concept of Steps is hugely useful, allowing the creation of "very complex effects with a clear and simple visualization". He also finds using the values in ABS and REL mode very useful, as the changes become seriously faster in the editing phase, and Recipes is another popular grandMA3 tool that he thinks will soon become "essential".

Once the transcription phase was complete, they moved on to the test phase which was short as the software "proved very stable and powerful". He immediately noticed the increased

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speed of the system, "It is so much more reactive and quicker in processing! We're talking about a 200 MB showfile with a control capacity of over 115,000 parameters!"

So far, everyone using the system has been very happy, and since switching to grandMA3, no-one has looked back. Furthermore, the consoles have been running steadily in grandMA3 without any issues. "I believe we are the first in the world right now to be using a grandMA3 system in Mode3 to control such a large and complex fixed installation system!" he concluded.

The Expo City operators have all been trained on grandMA3 and are fully integrated with it. Future plans include organising courses to improve their knowledge and skills in conjunction with support from MA Lighting and their local partners.

The Expo City lighting equipment is supplied by Agora, network equipment is owned by Expo City Organization.

malighting.com Photos © Agora



Small is beautiful for Robe getting back to its base

Basement Theatre in Auckland, New Zealand is living proof of how the 'small is beautiful' concept can become a hub of creative endeavour, a hot bed of ideas, experimental art, and the instigator of lively political and social discourse as well as an inclusive place for talented live performance imagineers to hone their craft.

In 2022, Basement Theatre purchased its first Robe LED fixtures – two CycBar15s – a sale in proportion to its production needs that has made a big difference to how shows can be lit.

The venue's then technical manager Michael Trigg explained that all their fixtures must be flexible and multipurpose, and the CycBar15s fitted this context.

He looked at several options before deciding on the Robe product being best value for their requirements. The fixtures are rigged in the 100-capacity main space and were purchased with support from Robe distributor Jands New Zealand at the start of 2022. Michael was looking for a very specific piece of kit. It had to be low profile due to the 2.5-metre ceiling height, and had to be an LED source with a good throw as well as decent angles that would work in the space.

CycBar 15 ticked all the boxes as a lightweight static 1-metre LED batten

with 15 equally spaced, super bright RGBW multichip LEDs giving homogenised and smooth colour mixing and linear dimming.

A fixed but re-definable beam angle offers optional diffusers and a new split filter system allows three different beam angles across the entire CycBar, generating an asymmetrical light output particularly useful for wall and cyc washing. Optional barn doors can also be used

to trim the beam if needed.

The CycBar 15s cover so many bases, Michael explained. "They can be a front wash, a back light, a wash or a top light or they can be rigged vertically for



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more of an effects look, and the individual pixel control was something that really appealed for this," he enthused, adding that the fixtures can also be rigged on side booms for dance shows.

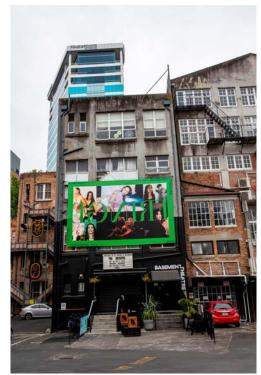
They can paint the walls with light using the CycBar 15s, then change the colour one minute and flip the fixtures around the next and use them for key lighting using the diffusion panels.

Michael was already familiar with Robe products through his work in events, so he was happy to specify the brand, and when he left earlier this year after several years in the post, new technical manager Paul Bennett is also delighted with the lights.

Most incoming Basement productions there will bring their own lighting designers and will use the house rig which contains about 40 fixtures, sometimes augmenting this with a few of their own specials.

Basement's lively performance programme features at least two new works each week staged in one of the spaces and continues to be an engaging and invigorating environment in which all the productions are well looked after. The venue is right at the heart of the annual Auckland Fringe Festival which has strong roots there, and is also at the epicentre of the New Zealand International Comedy Festival each May.

The CycBar 15s were such a great success that the theatre confirmed an order to triple their Robe inventory, adding two iBar 15s – an updated and IP65 rated version of the original CycBar – and two ParFect 150 LED source ACL style beam fixtures.



www.robe.cz Photos © Louise Stickland



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Yamaha AFC and NEXO help to create an immersive opera production in South Korea

A recent production of Verdi's La traviata in Busan wowed audiences with enhanced acoustics and amplified sound and effects that tracked the performers as they moved around the stage. Staged at in the open air at the cultural complex and former wire factory F1963, Yamaha AFC was used to create the spatial feeling of a classic concert hall, while each performer wore a TTA Stagetracker location sensor along with a wireless microphone pack.

The sound was reproduced in 3 dimensions by multiple speakers positioned around the venue including 5 x NEXO P12s along the top of the stage and NEXO ID24s suspended on wires above the heads of the audience.

Additional NEXO PS speakers filled in from the sides, with amplification and processing for all NEXO speakers coming from NXAMPMk2 powered controllers.

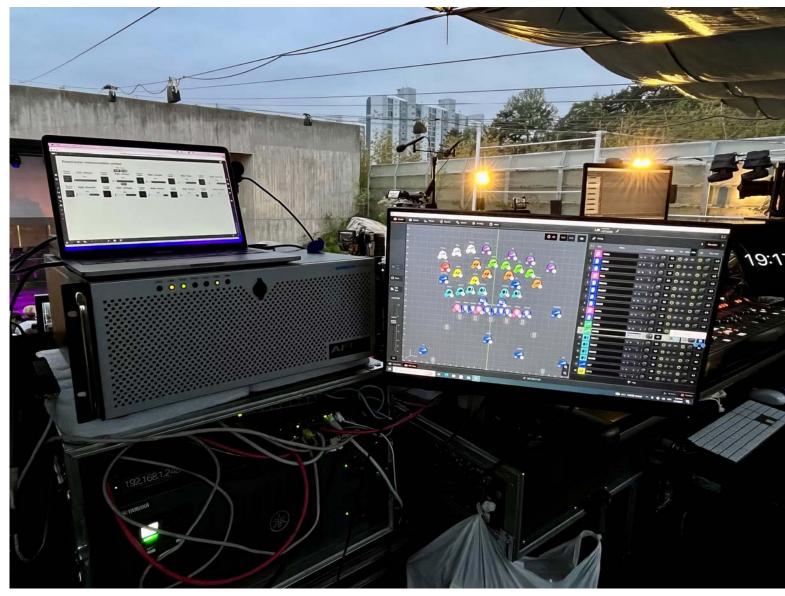
Building on a successful earlier production of the Marriage of Figaro with the same director, sound engineer Suyong Lee designed the system using NEXO NS-1 configuration software which now includes AFC Design Assistant for the integrated design of immersive sound systems.

"In conjunction with the Yamaha PM5 console, the necessary sound effects were adjusted in real time on the console" explains Suyong. "For example, the sound of the carriage was controlled by the touch screen of the console in accordance with the movement of the carriage projected on the stage between acts.

"The clear and precise sound quality of the NEXO P12 is perfect for classical music and the light weight and variable HF directivity of the ID24s made it possible to achieve the coverage we need over the audience."



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In a genuine team effort, the system was installed by Magic Alpha Sound with speakers supplied by Mania Sound. The Spatial Audio team from Yamaha HQ were on hand to advise on AFC and Sound Solution provided tech support for the Stagetracker deployment. "Most of all I want to thank the director Yoon Sang-ho who didn't hesitate to agree with my proposal for an ambitious sound system design that helped take the performances to a new level."

www.nexo-sa.com

www.yamahaproaudio.com

www.avltimes.com

Unilumin listed in Top 500 Most Valuable Brands in Asia

As GYBrand released its "Top 500 Most Valuable Brands in Asia 2023", on August 1st, Unilumin was very proud to be on the list. With an estimated brand value of USD1.705 billion, Unilumin was ranked as the 495th most valuable brand.

The GYbrand organization is focused on brand value research on a global scale. The latest list, "Top 500 Most Valuable Brands in Asia 2023", is based on a comprehensive analysis of brand fundamentals, brand strength, brand contribution, business performance, and other indicators, and the ranking holds high prestige.

Founded in 2004, Unilumin's product portfolio is rich in its lines of LED displays, LED lighting, multi-functional smart poles, and supporting integrated solutions. Through continuous innovation, Unilumin is at the forefront of the industry in Micro/Mini LED display, naked-eye 3D digital content, XR virtual shooting, cinema display, and other fields.

Furthermore, in its Daya Bay Smart Manufacturing Base, Unilumin has improved the stability of the manufacturing process by 80% and efficiency by 50%, through the wide application of automated production equipment and industrial robots. At the same time, 60% improvement in logistics transfer efficiency and a 70% reduction logistics transfer, with a storage capacity increase of 350% has been achieved through the application of logistics robots. Embracing automation, Unilumin demonstrates its commitment to building a benchmark in the LED industry.

Unilumin has a string of bright achievements connected to the innovative application of its LED products. In the field of virtual production and filmmaking, Unilumin (including its subsidiary ROE Visual) is a leading light in the global marketplace,



providing its virtual filming services for the Oscar-winning "Everything Everywhere All at Once," and "Born to Fly". It is also distinguished as the only enterprise to be linked with four DCIcertified movie screens. Unilumin provides the fully linked virtual production solution of: "XR virtual shooting system + full-process solution + digital asset cloud platform + cinema projection system."

Whilst the company's inclusion in the "TOP 500 Most Valuable Brands in China" for two consecutive years, and now featuring in the "TOP 500 Most

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Valuable Brands in Asia" list, clearly demonstrate Unilumin's global ambitions, its leading solution strength and service capability are proven with Unilumin's successful and high profile projects. Major events such as Beijing Winter Olympics 2022, World Cup Qatar 2022, Saudi Arabia "Riyadh Season" 2022, Tokyo Olympic Games 2020, FIBA Basketball World Cup, to name but a few, have all enjoyed the quality of Unilumin's superlative displays.

www.unilumin.com

Robert Juliat followspots provide bright solution for the new Nantong Grand Theatre in China



Nantong Grand Theatre is a new cultural and arts centre at the centre of the city of Nantong in China's Jiangsu Province. It is the last masterpiece to be designed by the late master architect Paul Andreu whose other designs include the National Centre for Performing Arts in Beijing, and the Grand Arche at La Défense in Paris. Located on the northern bank of the Yangtze River, the beautiful complex houses five performances spaces: the 1532-seat Opera Hall, the 1185-seat Concert Hall, a 599-capacity Drama Hall, a 250-seat Children's Theatre and a multipurpose Function Hall. Six Robert Juliat followspots were supplied to this magnificent building by Hangzhou YiDaShi Technology Development Co., Ltd and installed in the two largest venues. Four Aramis 2500W HMI followspots were delivered to the Opera House and two 1800W HMI Victor followspots to the Concert Hall. The theatre owner, Nantong Culture & Sports Exhibition Management Co, Ltd, specified the Robert Juliat followspots for this important new venue because they believe "RJ's followspots are of the highest guality and the easiest followspots to operate in the world." The Aramis and Victor units are installed in the main front-of-house followspot boxes with a throw distance of approximately 50m to the stage – a distance perfectly suited to their 4.5°-8° and 7°-14.5° zoom ranges respectively. Robert Juliat is distributed exclusively in China by Hangzhou YiDaShi Technology Development Co., Ltd / Ekolight. robertjuliat.com

"Turandot" at the Tokyo Nikikai Opera Theatre with support from Claypaky K25s and Tamboras

Lighting Designer Simon Trottet selected 25 Claypaky HY B-EYE K25 LED moving head washlights and 54 Claypaky Tambora fixtures for the stunning production of Puccini's "Turandot" at the Tokyo Nikikai Opera Theatre. "My aim was to unify the lasers, video and lights while producing powerful scenes to paint the space using smoke as a medium," explains



HY B-EYE K25

Trottet. The director collaborated with TeamLab and TeamLab Architec Japan, which were tasked with lasers,

video and set design and made their operatic debut. Trottet often relies on Claypaky lighting fixtures to deliver the look he needs for operatic productions. "I chose to work with Claypaky for [this] project, as they have always met my needs in terms of power and quality of light," he notes. Trottet utilized two large lines of Tamboras for backlighting (2 x 16) plus 22 more for side lights. To complement these sources. he placed K25s between the Tambora ramp lines and also in three-quarter facing positions to maintain a consistent color calibration between the different sources and to provide the necessary power to compensate for the LED videowall. "As a lighting designer, being able to use K25 and Tambora projectors in large numbers allows me to achieve exceptional lighting quality in my productions," Trottet explains. "I have been impressed with the reliability and quality of both products and have incorporated them into all my productions since I began using them." www.claypaky.com



Qatar Vision marks Qatar Airways' and Formula 1's partnership with Motorsport Festival lit by Claypaky

Qatar Vision, the most prestigious event management company in the State of Qatar, utilized an extensive array of Claypaky lighting fixtures for a unique outdoor event announcing the multi-year partnership between Qatar Airways and Formula 1 (F1). The special Motorsport Festival for guests and the public was held at the Lusail Boulevard entertainment destination in downtown Doha.

Qatar Vision transformed Lusail Boulevard into a big motorsport circuit show using their expertise in operational and logistical planning and full capabilities in all event areas to deliver an unforgettable experience. Lighting Designer Syam Gopinath selected 100 Claypaky Xtylos, 100 K-EYE K20 HCR, 100 Scenius Unico, 50 Sharpy Plus Aqua, 50 Sharpy Plus and 25 Mythos 2 fixtures for the lighting rig. "Once again Claypaky was our go-to lighting for a high-profile event here in Qatar," says Sharif Hashisho, Qatar Vision's CEO/Managing Director and the event's Creative Concept Designer and Executive Producer.



"Claypaky fixtures always come through for us and help us create memorable experiences for our clients." Qatar Vision replicated a proper motorsport racing circuit on Lusail Boulevard with 35,000 square meters of Qatar Airways and F1 branding fabric decorating structures, fences and bridges. They installed a complete PA system, 900 moving and static lights, 12 powerful lasers, 14 giant public viewing screens, 1.5 kilometers of fireworks above the buildings plus grandstands, stages and vehicle paddocks.



www.claypaky.com

www.avltimes.com

Clear-Com welcomes Anthony Wilkins as Business Development Manager

As Clear-Com[®] continues to grow beyond its core markets of live and broadcast, the company is pleased to announce the appointment of Anthony Wilkins to a new role as Business Development Manager for Industrial and Critical Communications in the EMEA region. Anthony will work with Clear-Com's current partners and develop new channels for the company to expand in sectors where communication is critical to success and safety, such as marine/offshore, medical, public safety, transportation, and more. Anthony brings over 40 years of experience in professional audio systems, covering the gamut of field service engineering and test and measurement to sales, technical marketing, product management, and business development. He has expertise in distribution and partner management for companies including Sony, DTS, Linear Acoustic and Junger Audio, and directly prior to joining Clear-Com, he was responsible for managing EMEA distribution for Focusrite, where he oversaw the amalgamation of the ADAM Audio, Sequential, and Oberheim brands into Focusrite Group EMEA. "Anthony's wealth of experience in both the technical engineering and the sales and business development areas of the communications industry made him the perfect candidate for this key growth role based here in the EMEA region," says Chris Willis, Senior Vice President of Worldwide Sales. "He will be invaluable to Clear-Com as we cultivate business in the Industrial and Critical Communications space in EMEA and we are excited to see those markets in this region grow with his leadership." www.clearcom.com



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Impeccable sound by NEXO meets fine dining at GU Bistronomy in Vietnam

Born of a passion for fine wine and the culinary arts, GU Bistronomy provides an impeccable fine dining experience to customers in the Thanh Xuan District of Hanoi, Vietnam.

This uncompromising approach is extended to the choice of sound system at GU, with owners determined that sound quality should match the same high standards as other important areas of the customer offering, and that speakers should complement the sumptuous interior design of the restaurant, rather than detracting from it.

For local audio technology specialists Pro Sound, this meant installing a system based around NEXO's ultracompact ID14 speakers, with cabinets finished in the same red used as an accent colour on soft furnishings throughout the venue.

Employing a custom-designed 4-inch coaxial driver and a 1.4" diaphragm HF motor, the ID14 delivers smooth, clean sound and impressive power from a cabinet measuring just 130mm wide, 130mm high and 120mm front to back.



To ensure maximum versatility, the ID14 can be specified with either 100° x 100° or 90° x 140° HF dispersion.

In a system designed in collaboration with the team at NEXO distributor Bao Duong Co using NS-1 software to predict SPL and frequency coverage, a total of 14 x ID14s are deployed, supplemented by 6 x ID84s, 4 x ePS10s and pairs of NEXO ePS6 and PS8. Bass extension comes from 5 x NEXO eLS400 and 2 x eLS600 subs, with amplification and processing supplied by a rack of 7 x NEXO NXAMPMk2 powered controllers.

www.avltimes.com

"ID14 is the perfect loudspeaker for a high-end hospitality venue like GU" comments Pro Sound owner and Managing



Director Mr Trung. "Guests enjoy pristine, full range sound with consistent SPL coverage, which helps to create a relaxed vibe in the room without filling it full of ugly boxes."

www.nexo-sa.com

www.pro-sound.vn

PIXERA brings perfect precision to Indian Republic Day celebrations

AV Stumpfl's powerful PIXERA media server platform was on the front lines for Beating Retreat, the military ceremony at the heart of India's Republic Day celebrations, which this year transformed New Delhi with a cuttingedge projection-mapping experience synchronised with a drone display. "This is the biggest projection-mapping project to date in India, as well as the first event in India where projection mapping and a drone show were in sync," confirms Pratik Wadhwa, CEO of Delhibased Modern Stage Services, which won the tender for the projection mapping. The show, he explains, celebrated both the past 75 years of Indian history and the present and future



development of the country. To ensure the stability and reliability crucial to delivering the demanding 14-minute show, which took place during what Wadhwa describes as "one of the most prestigious events that happens in India", Modern Stage Services turned to AV Stumpfl's multi-award-winning media server platform, PIXERA. "We have been using PIXERA for all our projects since 2021," he says, "and we are very satisfied with the stability of the software. Features like 3D pre-visualisation, live input preview and dynamic soft edge make the job much easier for us." Fourteen PIXERA systems, including one PIXERA Director licence, bolstered a Beating Retreat set-up that included 61 × Christie 20k-lumen laser projectors, a further eight 40W RGB laser projectors, and lighting comprising 96 × moving heads and 180 × LED PAR lights. **knownsensestudios.com** mssworld.com pixera.one Photo © Modern Stage Service

Ushio appoints Koji Naito as new chairman and chief executive officer of Christie



Ushio Inc., a trusted leader in light sources and optical equipment for industrial processing, visual imaging and life sciences, and parent company to Christie[®], the leader in audio and visual technologies, today jointly announce the appointment of Koji Naito as the new chairman and CEO of Christie Digital Systems, globally. Koji currently holds the position of president and chief executive officer for Japan's Ushio Inc., and will, effective April 1, oversee both companies. Koji succeeds Hideaki Onishi, who will transition into a new role as Christie's president and chief operating officer. In addition, Atsushi Kuroda, formerly of Sharp NEC Display Solutions, Ltd and currently senior director of Christie's Strategy Office, has been appointed Christie's chief technology officer and chief strategy officer, succeeding Zoran Veselic, president and CTO. "Constant innovation and deep core values, while making a difference in the communities we serve, are paramount to Ushio's vision to a sustainable future for everyone," says Koji Naito, chairman and chief executive officer, Christie. "I am pleased and honored to lead Christie into the future with a strong executive management team who shares Ushio's mission and vision." christiedigital.com

AVL TIMES ASIA PACIFIC NEWS



AO Multimedia & Drones partners Fireworks by Grucci for World Travel Tourism Summit

A 1,600-strong fleet of AO drones lit up the desert sky in Riyadh recently to celebrate the 22nd World Travel & Tourism Council Global Summit. One thousand of them were AO's robust, supercharged LED drones, supplemented by 600 AO pyro drones, which are able to eject a 'waterfall' of glitter-sparks into the night sky.

The multi-discipline show with worldclass pyrotechnics, lasers, searchlights and fireworks was designed and produced by Creative Director Phil Grucci of Fireworks by Grucci, alongside Drones/Lights/Lasers Producer Marco Niedermeier from AO Multimedia & Drones and Light/Laser Designer, Jerry P. Appelt.

The team specified 34 lasers and 40 Falcon 7K Searchlights to enhance the sky-high dynamics, as the huge fireworks display splashed colour across the summit's supper ceremony, held in the At-Turaif area. AO Multimedia & Drones's LED drones were programmed to showcase World Travel & Tourism Council Global Summit-related imagery, nodding to the historic setting of the



display in the symbolic birthplace of Saudi Arabia, Diriyah, and its UNESCO World Heritage Site At-Turaif. The lasers were used for 3D effects, beaming from the historic city towards the VIP terrace and programmed to map the outlines of the historical buildings in At-Turaif.

AO Multimedia & Drones constructed a specially designed launchpad for the drones using scaffolding to ensure it was raised from the ground, so as not to disturb the site or interfere with the palm trees. They also put into place protections to ensure no damage was done to excavation areas. For power, the team laid dozens of kilometres of cables, distributing power from six generators that were brought to site.





ao-drones.com

AVL TIMES ASIA PACIFIC NEWS



Hyundai Elevator (현대엘리베이터), South Korean manufacturer and market leader for lifts, escalators and moving walkways, commissioned YNC Solution to plan an extensive audio installation in a new building complex. A total of 9 rooms with different requirements were equipped with loudspeaker and amplifier technology from the German manufacturer Voice-Acoustic.

The South Korean audio specialist YNC Solution, Voice-Acoustic's exclusive distribution partner since the end of October 2016, has stood for competence and customer satisfaction for more than 15 years. Many successfully completed audio installations in recent years distinguish the YNC Solution team as a general service provider (from planning to commissioning). This project involved providing a suitable sound system for an auditorium for 400 people, a banquet hall, 6 meeting and seminar rooms as well as a company restaurant. A total of 74 Voice-Acoustic loudspeakers and 16 HDSP system amplifiers were installed. "For the approx. 560m² auditorium, the constant curvature line array Ikarray-8 from Voice-Acoustic was the first choice



for us", says Terrie Lee, President of YNC Solution. "With an L/R setup of 2x 3 Ikarray-8 (1x15° + 2x5°) and a centre cluster with 1x Ikarray-8 (15°) a maximum SPL (broadband) of 120db to 121db was simulated with EASE.

In the low frequency range, the system, which was designed for a width of 20m and a depth of 28m, was extended by 2x 2 Paveosub-115. A total of 4x Score-5 were used as stage monitors and 12x Alea-4 as surround speakers.

www.avltimes.com

The entire speaker system is driven by 2x HDSP-6A, 1x

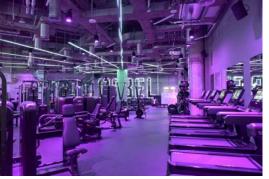


HDSP-4A, 2x HDSP-0.4A (or 14 power amp channels)."

voice-acoustic.com yncsolution.co.kr

High-impact audio installed at 1REBEL Dubai

London's 'King of Gyms', 1REBEL, is a leader in the boutique fitness sphere. Having already garnered an almost cult following in the UK, 1REBEL recently launched in the UAE, with the opening of its first Dubai branch within the cosmopolitan Dubai International Financial Centre area. Offering a oneof-a-kind fitness experience, 1REBEL



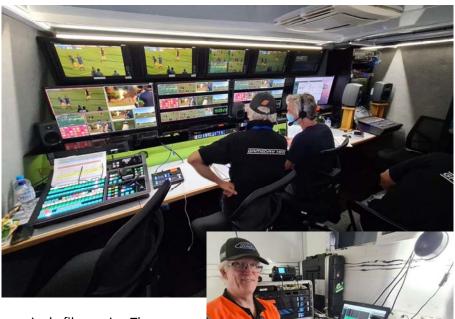
required a first-rate level of AV production and technology to match its exceptional reputation. UAE-based distributor and integrator, Levels AV, was awarded the project during the design and project commercialisation phase, overseen by Turner & Townsend project management. The installation required high-end audio and lighting across a variety of specific workout zones. Over 40 EM Acoustics loudspeakers and subwoofers were deployed to supply the high-octane soundtrack intrinsic to the workout experience across an area of 10,000 square feet. "This 1REBEL project required nightclub-quality sound across a variety of zones in what is 1REBEL's first open-plan gym. We needed high-quality loudspeakers that could be relied upon to produce crystalline audio across a mixture of music genres," explains Alwan. "EM Acoustics was an obvious choice for this project. EM's loudspeakers



are powerful for their size and deliver matchless audio quality meaning we could ensure smooth, even sound coverage without interfering with the overall modern, industrial aesthetic. The range of flexible rigging and mounting options meant we could get sound where we needed it across all areas of the gym." emacoustics.co.uk

Green-GO system provides rock solid OB comms for Gameday Hire Sydney

Sydney-based Gameday Hire recently invested in a Green-GO digital intercom system for its outside broadcast facility as a cost-effective and robust solution for its range of projects throughout Australia, New Zealand and the South Pacific. The company is headed up by Australian broadcast industry veteran Andy Liell, who was searching for a communications system that was fully IP-based and offered world-class performance. Gameday Hire's team travels across the region, often delivering outside broadcast (OB) technology in remote locations that required rock solid communications. Gameday Hire's OB trailer was designed as a heavily IP-based facility, with extensive use of NDI and Dante based audio. The system architecture utilises distributed network nodes to



enable vision, audio and comms to be connected over single fiber pairs. The Gameday Hire team is now armed with multiple Green-GO MCX Multi-Channel Rack and MCX-D Multi-Channel Desk Stations, Dante interfaces and Green-GO Slim Audio Interface 4 Wire devices, as well as multiple Green-GO Wireless Beltpacks and Antennas.

greengodigital.com



Claypaky Sharpy X Frames and Mythos 2 shine in music video of blockbuster Bollywood title track

Claypaky goes to Bollywood in a music video for the title track from the comedy-horror film "Bhool Bhulaiyaa 2" in which Claypaky Sharpy X Frames and Mythos 2 fixtures play a starring role. Light Craft & Sound Pvt Ltd. provided the Claypaky lighting.

"This project was very close to our hearts as the song from the latest film has been a blockbuster across India and remaking it [into a music video] was a bit of a challenge for us," says Arjun Singh of Light Craft & Sound. "But we knew how to pull it off, how to do something very fresh and new and thought what could be better than using our favorite lighting brand, Claypaky?"

The effects-intensive music video has a cool and contemporary club look and

dynamic choreography. "Given the creative brief for the song we thought Claypaky Sharpy X Frames would be a proper fit because of their hybrid nature and a framing system which no other fixture in the market has. They would give us the classy vibe we needed for the song," Singh says. "We also chose Mythos 2 fixtures since they are such a reliable day-to-day fixture for us."

Lighting Designers Imran Shaikh and Rohan Tambe "didn't miss any opportunity to create fabulous effects with the Sharpy X Frames," Singh reports. "They created magic with them, and everyone just loved them."

All of the fixtures performed "exceptionally well with zero technical issues," he says. "Our relationship with Claypaky is long-standing and strong,





and they are there when we need any support in terms of technical or product usage. Light Craft has always chosen and believed in Claypaky and loves using their all products."

Pankil Ahuja is Claypaky's Sales Manager for India and the subcontinent.

www.claypaky.com

CloudPower at luxury AURA Bar in New Delhi

White Eagle Entertainment recently installed APEX CloudPower amplifiers at the heart of a complete new audio system at AURA in New Delhi. Forming part of iconic hotel, The Claridges, AURA is a highenergy luxury hybrid bar, offering live entertainment, cocktails and hors d'oeuvres. White Eagle Entertainment has been appointed as the APEX distributor for India and chose to install a pair of 4 x 350W CloudPower CP354 amplifiers, plus a 4 x 700W CP704 and a single 4 x 3000W CP3004. The amplifiers power AURA's loudspeaker system, chosen from the distinctive Pequod Acoustics range and including two Kona Storm monitor speakers, a pair of Ovoid subs, eight Zephyrus 5" coaxial speakers, and four Borea 12" subs. A rackmount Soundcraft UI24R mixer provides compact, wireless



control of the system. "The APEX CloudPower amplifiers are a perfect fit for a high quality, cutting-edge venue like AURA," comments White Eagle Entertainment Director, Arun Kalra. "I am very proud of the audio quality we have achieved in the venue. CloudPower has all the processing tools needed to optimize the system and the ability to control and monitor the amplifiers remotely has been a big time-saver for the team." apex-audio.be

Lotte Cultureworks chooses Christie pure laser projection for cinema auditoriums in South Korea

Christie[®] is pleased to announce that Lotte Cultureworks, a subsidiary of Lotte Group that manages the operations of Lotte Cinema, has acquired 4K RGB pure laser projection systems for its flagship Superplex World Tower auditorium in Seoul, as well as several premium large format (PLF) auditoriums across South Korea. The second largest cinema chain in South Korea has readily embraced RGB pure laser projection to provide the ultimate experience to discerning moviegoers demanding the best cinematic visuals and audio. These premium auditoriums are powered by the Christie CP4450-RGB and CP4440-RGB pure laser cinema projectors featuring CineLife+ electronics, Christie Real|Laser[™] illumination technology,



and an all-in-one design with integrated cooling and sealed optical path. They provide incredibly colorful and detailed, trueto-life 4K images while benefiting from a platform designed to support the content and formats of the future.

An Interview with Linda Chen General Manager of Asia II Business at Absen

Established in 2001, Absen is the world's leading LED display brand, renowned for its high-quality products, global presence and full-service capabilities. From corporate lobbies and retail stores to outdoor advertising and live events, Absen has delivered more than 50,000 installations in over 130 countries. No matter where you live, work or play – chances are you will have come across our screens including NBA games, FIFA World Cups, Times Square and even Presidential live debates.

Absen's displays cover a wide range of applications including Commercial Display, Data Visualization, Rental & Staging and DOOH, so whatever your vision or need. Through constant innovation and development, Absen has been the No.1 Chinese manufacturer in exporting LED displays for 12 years in a row, making it the brand of choice for some of the most prominent brands, integration partners and rental companies around the world.

With the construction of 230,000m², Absen Huizhou Intelligent Manufacturing Base, located in Dongjiang High-tech Industrial Park. The company has invested 500 million RMB in the construction of the factory and the annual production capacity is up to 300,000 square meters. AVL TIMES had the opportunity for an exclusive interview with Linda Chen, General Manager of Asia II Business at Absen. Ms Chen is responsible for Asia II business development as well as implementing Absen's Asia II strategic plans, and was gracious to shares valuable insights of the company, and especially what's next for the globally leading LED display manufacturer.

What aspects of Asia-Pacific and/or Global market sectors make video technology an exciting industry to be involved in?

The really exciting thing is that LED technology is always evolving. For example, a recent development is MicroLED which is creating a lot of buzz as it has the capability to replace traditional display technology including projection and LCD video walls. This makes for an exciting future as the potential growth is exponential, creating new opportunities as it continues on its upward trajectory.

How much growth for your industry do you see in the next 2 years for the Middle East and APAC territories.

Absen is involved in many markets, so when analysing growth, we look at the vertical markets we operate in, as well as across all our regions. At present we are seeing huge growth in the corporate market – and this looks set to continue for some time yet. Alongside this, the

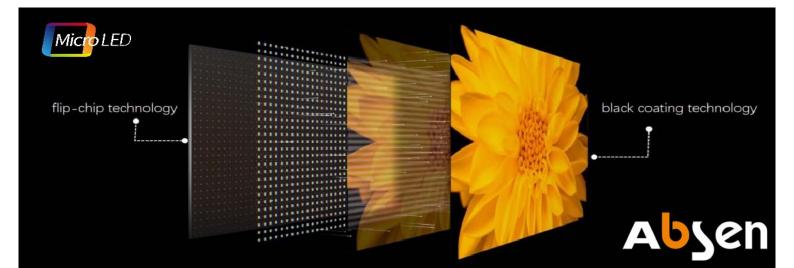


Linda Chen

OOH (Out of Home) market is likely to grow 10-15% in the next 2-3 years. When looking at regions, we are aware that there is much work to be done in Asia-Pacific which, for us, makes it an exciting area in which to operate. EMEA however is a much more mature market, so the growth areas there are different to those in Asia-Pacific.

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Which industry sectors within the Middle East market make ABSEN products and video technology an growing industry to be involved in? Which market segments are currently of most interest to you?

The VP (Virtual Production) market is incredibly interesting, and our R&D department is working tirelessly to bring products to market that are fit for that purpose. At our recent VP Forum in London, we spoke with those working in the VP industry and got lots of good feedback on current products, while also giving an exclusive showcase of our PR series, which has been specifically designed for VP applications. The event was such a success that we are planning to make it an annual fixture. We're also continuing to grow our corporate portfolio, with our award-winning Clear Cobalt Series, we have a product range that is suitable for all corporate applications. We also want to maintain our leadership position in Rental & Retail & OOH and continue working with the largest companies in the world, delivering award winning projects.

What is the latest technology advancement that ABSEN is introducing in their product range currently sold in the market?

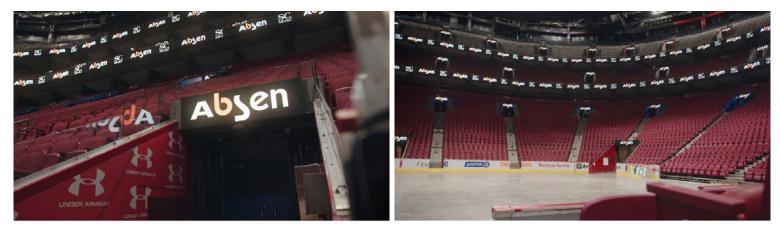
Virtual Production has become the most talked-about phenomenon in the audio-visual industry. With virtual film sets bringing to life amazing television shows and movies, and XR stages transforming the metaverse, Absen has the perfect virtual studio solution to overcome any obstacle. Absen VP&XR LED solutions with High refresh rate, camera-friendly, Vivid images with accurate colors and futher benifits.

Which recently completed or currently ongoing projects since January 2023 that the ABSEN is most proud of that are using ABSEN products?



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Over 620m²Absen's Top Service Access Panels Revamp the Bell Centre Visual Marvel!-<u>www.youtube.com/watch?v= Unem9kgiOo</u>



AbsenLive LED Displays in Nikon Creates Studio



Over 700^{m²} Absen's LYRA Series LED Displays Steal the Spotlight in Concert!

Please tell us what you personally find exciting and/or challenging about being involved as a key participant in the growth of video technology for newer and future applications.

Personally, I find it exciting to face challenges, whether those challenges are technology-based or within new and innovative verticals. It's exciting to be leading the market with Absen LED and to always be working on new products to bring to the market. Staying ahead of competitors, is very exciting as we have to keep innovating to stay on top.

What are ABSEN's dream to achieve in 2025.

So far the Absen journey has been an exciting one with many milestones

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along the way. We are passionate about continuing on this path and maintain our brand reputation and perception in the marketplace. By 2025 we want to be the number one global LED supplier in all the verticals we operate in.

To learn more about Absen, visit www.absen.com

An Interview with Stephan Peus The man behind the Neumann KU 100

This year marks the 50th anniversary of the Neumann dummy head microphone. We spoke with our former President of Development and former General Manager, Stephan Peus, for whom "Fritz", as the Neumann dummy head is fondly called, was a constant companion. And has remained so to this day! For in retirement, he founded peusrecording to specialize in dummy head recordings.

Dear Mr. Peus, you started at Neumann in 1974, shortly after the first dummy head microphone KU 80 saw the light of day.

That's correct, the KU 80 was introduced at the 1973 IFA trade show. I had already become acquainted with it before that because I was studying communications engineering and acoustics at the Technical University of Berlin. During that time, I met the three inventors of the dummy head, Kürer, Plenge and Wilkens, and took part in the final acoustic tests. My first contact with the finished KU 80 was the recording of a piano concerto by Brahms, which had been recorded in the large auditorium of the SFB (now RBB) on a big studio tape machine. I was thrilled to be entrusted with the editing.

One might think that a dummy head microphone is just a mannequin's head with two mic capsules in its ears. But it's not as simple as that, is it?

No, because high-quality recordings require a signal-to-noise ratio that cannot be achieved with tiny capsules that would fit in the ear canal. That's why Neumann was approached right away. Here, they could be certain to get the required quality. However, the difference in diameter from the ear canal of about 6 mm to the 21 mm diameter of the small-diaphragm studio microphone used causes strong coloration. Therefore, acoustic filters had to be installed to combat the resonances and reflections. However,



these filters and the reproduction of the entire ear canal were the reason why the first dummy head KU 80 sounded impressive only over headphones. Incidentally, the reference was Sennheiser's HD 414, the first open headphone, which was extremely popular at the time and triggered an initial headphone boom. Over loudspeakers, however, recordings with the KU 80 sounded muffled.

The poor loudspeaker compatibility was already fixed in its successor, the KU 81, launched in 1981, wasn't it?

The impetus came from the Institut für Rundfunktechnik (IRT) in Munich. Some employees of the TU Berlin, who had developed the dummy head, had transferred there. They looked at conventional stereo microphones, especially the Neumann SM 69, and concluded that a dummy head microphone should be diffuse-field equalized. After all, it is usually positioned at some distance from the sound source, i.e., outside the so-called critical distance. At the same time, a diploma thesis brought the realization that the outer ear's acoustic impact reaches only a few millimeters into the ear canal. So, it was possible to shorten the ear canal in the dummy head

considerably, which greatly reduced the attenuation of the upper frequencies. Together with diffuse field equalization, this was a major step forward. However, to facilitate production, I implemented the acoustic filter inside the KU 81 differently than in the IRT design. That was great fun, because I finally got to apply what I had learned in acoustics lectures. Before that, everything I really needed, I had learned at Neumann. Of course, I had the acoustic understanding, but the university didn't teach you how to build a good-sounding microphone.

Another important innovation in the KU 81 was that new silicone materials made it possible to reproduce the human outer ear in a much more complex and differentiated manner. This has led to a higher resolution.

But the Neumann dummy head never had a torso, did it?

The KU 80 was originally sold in a carrying case as wide as our shoulders. So, when you mounted the head on it, you had the upper part of the torso. It was assumed that was important for directional imaging, until one realized that a shoulder section is only relevant for head rotation, when it creates

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different reflection angles. But with a rigid mount, the torso plays no role in directional perception. That's why we didn't include a shoulder-width case with the KU 81 and KU 100.

After the KU 81 remedied the KU 80's biggest shortcoming by providing good speaker compatibility, what were the motivations for developing the KU 100?

Acoustically, the KU 100 is indeed not all that different from the KU 81, nor were there any major quirks that absolutely had to be fixed. However, we had contact with a very interesting designer who found the KU 81 so ugly that he offered us a design draft – which we liked right away!

The more abstract form actually also corresponds to the current state of research that, for example, very human-like robots tend to appear uncanny, while artificial forms, which clearly identify themselves as something technical, meet with fewer reservations.

There's something to that! At the very beginning, the KU 80 was used in theaters and in the Philharmonie Berlin to allow the director to listen 1:1 into the room. And there were indeed protests from actors and from the audience that a "dead skull" was hanging up there. So they built a cube with black gauze in which the head disappeared.



But the KU 100 does offer some detail improvements over its predecessor?

Yes, one of them being the shape of its ears. In the KU 80 and KU 81, we worked with casts of real ears. In the case of the KU 80, they were the ears of one of its developers: Dr. Henning Wilkens; in the case of the KU 81, they decided to use the ears of an employee of the Ruhr

University Bochum, who unfortunately died in a traffic accident a few years later. But his ears live on, so to speak. In principle, the ears of the KU 100 are the same, but since our outer ears (and hence those of the first dummy heads) are never perfectly symmetrical, I had the idea to match the ears of the KU 100. This was to prevent the asymmetries of the KU ears from accidentally overlapping with those of the listener's ears in such a way that the result could become too right- or leftbiased. And because I had no way of measuring and eliminating this asymmetry automatically, I did the alignment by hand. My daughter, who is a dental technician, gave me suitable materials, and so I worked on the ears of the KU 100 from sculpting paste with a spatula and scraper. I took one of the ears as a reference and made the second one as much like a mirror image as possible.

My impression is that the frontal localization is more accurate on the KU 100 than on the KU 81.

This could be in part due to the improved symmetry of the ears. We have also changed the "pitch angle" of the ears somewhat. In listening tests with the KU 81, it had been noticed that sound sources in the horizontal plane usually tended to be perceived slightly upward during reproduction. This is related to a characteristic "dip" in the horizontal frequency response of our outer ears. For every natural ear, that dip is at a slightly different frequency. This does not interfere with natural



Stephan Peus in conversation with Andreas Hau

hearing, because we "adjust" the location of sound sources with the help of our eyes throughout our lives. If we are now given a certain configuration by the dummy head, we cannot correct visually. As it happened, the aforementioned dip in the horizontal frequency response of the KU 81 caused sound events from the front to be perceived as slightly shifted upward. In the KU 100, we therefore adjusted the angles of the ear cups relative to the vertical so that the imaging is now correct horizontally and vertically.

Since your retirement, you have gained a lot of experience in dummy head recordings with "peusrecording". Would you have any tips?

I have been careful to work only in acoustically "nice" and balanced rooms, often in churches. A sound check is essential, of course, to determine a good position for the dummy head. And you should watch out for unwanted background noises. In "normal" recordings, microphones are used that can largely block out sound from irrelevant directions. The dummy head, by its very nature, listens in all directions, and you should be very careful to assess the overall acoustic situation before recording. Nothing remains hidden from a microphone as sensitive as the Neumann dummy head!

Thank you very much for the interview, Mr. Peus!

The interview was conducted by Dr. Andreas Hau (Content Marketing Manager, Neumann)

arance

Find out more about the Neumann KU 100 at

www.neumann.com/en-en/products/microphones/ku-100/

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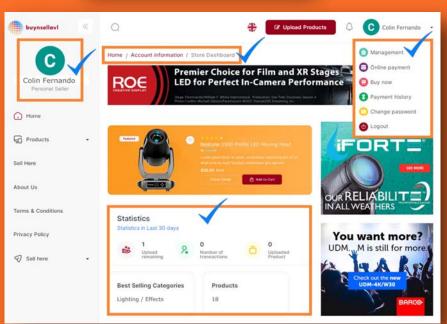
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CHAUVET Professional COLORado PXL Curve 12





Take PXL control to the Power of 12

COLORado PXL Curve 12 is a fully pixel-mappable motorized IP65-rated RGBW LED batten with individual control of zoom, tilt and color across twelve independent heads.

Basic and advanced operating modes and an extensive library of pre-built effects that includes virtual gobos, movement macros, and foreground/background color control make creating complex and volumetric looks easy.

Seamless edge-to-edge mounting maintains pixel pitch between fixtures helping to make runway effects consistent.

COLORado PXL Curve 12 speaks DMX, sACN, Art-Net, Kling-Net and RDM.







Click the link below to find more information <u>www.chauvetprofessional.com</u>

AVL TIMES PRODUCTS

CHAUVET Professional Ovation Rêve E-3



- Full-spectrum LED ERS-style lighting fixture for theatre, film and production
- Linear color temperature presets from 2800 K to 8000 K with high CRI and CQS
- Virtual color wheel with color matched to popular gel colors
- +/- Green adjustment and emulated red-shift via DMX or on-board control
- RDM (Remote Device Management) for added flexibility
- Adjustable PWM (Pulse Width Modulation) to avoid flickering on camera
- Virtually silent operation for use in studio, film and theatre applications
- Ultra-smooth 16-bit dimming curves and speeds to complement any lighting scheme.
- Innovative adjustable yoke for mounting in low clearance areas
- Direct power/data connection and control options for the Ovation GR-1 gobo rotator
- USB port for fixture software updates

Ovation Rêve E-3 is the brightest, multi-color LED ellipsoidal that also has the capability of producing perfectly tunable whites. It's a new kind of epic story-telling machine that fuses the best of both worlds into one totally reimagined LED light source.

Color Temperature presets ranging from 2800K to 8000K maintain outstanding brightness and a high quality of light, with an emulated "red shift" for a tungsten feel. Ovation Rêve E-3 also features several dimming curves, a virtually silent operation with fan-off modes, and a series of technician-friendly features such as an innovative, adjustable yoke that makes mounting in low clearance situations a breeze.

With Ovation Rêve E-3 you can seamlessly transition from captivating a wide range of saturated colors in class-leading output to distinct whites with +/- green adjustments using one fixture. No ifs, or buts. Simply and categorically unrivaLED.



Click the link below to find more information www.chauvetprofessional.com



Claypaky SKYLOS Ultra-versatile, weather-resistant and incredible light output



Large searchlights have written one of the most glorious pages in the history of professional show lighting. Yet today they are considered unviable since many firms are not open to investing in a technology that often has weight, size, operating cost and maintenance drawbacks.

Claypaky's SKYLOS aims to quash these uncertainties and comes with a long list of features and performance specs that make it much more than just a simple searchlight. The Skylos is an extremely versatile fixture in every way, which will certainly also be appreciated in the touring sector, where LDs are constantly on the look-out for dense, solid beams of light and ever-greater light output.

The Skylos fits a custom 300W white light laser source, which provides an extremely parallel, uniform beam, while attenuating the well-known temperature and safety issues found with units that use Xenon lamps. Considering the light output, its power consumption is not even close to that of traditional searchlights. With a power consumption of only 600W, the Skylos has the same light output as a 4000-watt Xenon lamp!

The beam pours out from a large 300mm front lens, specifically designed in Claypaky's R&D department. In combination with the light source, it produces a dense, full-bodied column of light, which is highly visible even from afar. The beam is perfectly uniform and parallel, with no visible hotspots. The beam angle can be adjusted from 0.5° to 5° resulting in exceptional light intensity, which cannot be produced by a LED or traditional light source.

Its range of effects includes a slot for customizable gobos and a battery of prisms, which distinguishes it from other fixtures. On one wheel, we find



a rotating six-sided prism and a rotating five-sided linear prism. And on a second level, we find a fixed 4-sided prism, which can be superimposed on the other two to achieve a breath-taking Moonflower effect and many other fantastic never-seen-before mid-air effects. Laser technology adds outstanding optical contrast, making all light projections razor-sharp. Its body is IP66 protection rated and marine grade. So, it is capable of working in any weather conditions and in environments with high marine salinity and a high risk of corrosion. A sophisticated internal heating system designed specifically for this product means it can even work at very low temperatures (as low as -40°).



Click the link to find more information at www.claypaky.com

AMX New Line of CE Series Universal Control Extenders

HARMAN Professional Solutions, the global leader in audio, video, lighting and control, today introduced the CE Series, a new family of professionalgrade Universal Control Extenders. The new line delivers AMX-quality hardware control to any system that supports IP connectivity, making these units ideal for corporate spaces, colleges and universities, and government facilities.

AMX debuted four models, including CE-IO4 with 4 I/O Ports, CE-IRS4 with 4 IR/S Ports, CE-REL8 with 8 Relays, and CE-COM2 with 2 Serial Ports.

An open control API makes it simple to integrate CE Extenders with any IP control systems or apps and the integrated web interface enables configuration without specialized applications. HARMAN's HControl protocol enables auto-discovery by next generation AMX control processors and other HARMAN Professional products. PoE power and a compact footprint simplify installation and concealment.

HIGHLIGHTS:

- COMPATIBLE WITH ANY IP CONTROL SYSTEM An open API makes it possible for any control system or application to control CE Series Universal Control Extenders.
 Whether part of a larger HARMAN Professional installation or the only AMX product in an install with products from other manufacturers, the open API allows seamless integration.
- COMPACT FORM FACTOR The compact form factor of CE Series Universal Control Extenders is not much larger than a deck of playing cards. This small size, combined with the simplicity of being PoE powered, makes for easy mounting and concealment.



- LOW-COST, PROFESSIONAL-GRADE EXPANSION OPTION CE Series Universal Control Extenders are perfect for applications that require a low-cost control extension solution with the professional-grade quality and security of an AMX product.
- WEB CONFIGURATION INTERFACE The included web interface simplifies configuration and provides device control capabilities for testing during commissioning.
- HCONTROL NATIVE The HControl protocol enables CE Series Universal Control Extenders to be autodiscovered and integrated seamlessly with next generation AMX control processors and other HARMAN Professional products.

"We couldn't be happier to introduce this new line of Universal Control Extenders," said Nick Czapla, HARMAN Professional Control Solutions Product Manager. "These boxes make it super simple to extend control well beyond typical point-to-point connections to just about any device within reach of the IP network – it really is that easy. The open control API and web interface also make integration quick and painless."

REST

Click the link below to find more information

JBL Professional COL Series Slim Column Loudspeakers

HARMAN Professional Solutions, the global leader in audio, video, lighting and control, announces the launch of two new JBL Slim Column Loudspeakers, COL600 (24-inch 600 mm) and COL800 (32-inch 800 mm), that are ideal for a variety of applications, including conference and meeting rooms, lecture halls, retail stores, concourses, transit spaces, fill applications and more.

Featuring wide horizontal and narrow vertical coverage with a built-in 10° down-tilt to the aim, both COL Series models deliver optimum coverage for most listening areas while allowing the speaker to be installed flat to the wall. Racetrack woofers provide maximum radiating area in a column form factor. Multi-tap transformers allow for use on either 70V or 100V distributed speaker lines, while the speaker is switchable for direct 8-ohm operation.

Available in black or white, versatile installation is accommodated by two included L-brackets, which can be installed on either the top or bottom panels. These speakers can be installed indoors or outdoors and feature an IP54 rating (per IEC60529) for protection against ingress of dust or water. The drivers are water-treated, the grille has a water-backing, and a cover is included to protect the input terminals.

"We are extremely pleased to introduce these COL Series loudspeakers that solve so many installed audio needs and are ideal for completing our Control Contractor Series product family expansion," said Rick Kamlet, HARMAN Professional Solutions Senior Manager, Installed Loudspeakers. "They combine an incredible package of performance and aesthetics and deliver beautiful coverage both vertically and horizontally, we can't wait to get them out supporting real-world market applications."



REST



Click the link below to find more information

www.avltimes.com

www.jblpro.com



Kino Flo MIMIK 120



The Kino Flo MIMIK 120 is a revolutionary full spectrum image-based lighting tile that mirrors video content, while applying a higher tonal and color rendering range. MIMIK delivers extended spectral bandwidth and cinematic color fidelity when lighting talent and set elements in virtual production environments. Utilizing Kino Flo's patented Matchmakker[®] technology, it translates an incoming RGB video signal into five individual emitters (warm white, cool white, red, green and blue), generating synchronized foreground lighting that creates the utmost realism on virtual sets. **kinoflo.com**

Power supply option for ETC F-Drive

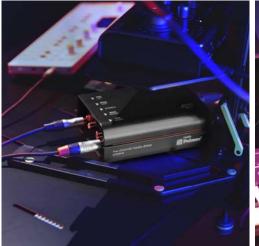


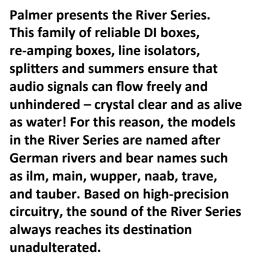


The F-Drive R12 can now serve a wider range of installations with the new F-Drive Power Supply from ETC. The new, reducedcost supply is perfect for sites with simplified power requirements. Now, customers can choose a dedicated 1000 W or 1800 W option with a simpler installation and reduced noise profile. ETC still offers the industrial and expandable Mean Well RKP-1U Rack System with RCP-2000-48 power supplies. We recommend this solution for installations where multiple power supplies and F-Drive R12 units are connected together or where in-line, always-active power supply backup is necessary. etcconnect.com



Palmer River Series - audio tools for a pristine signal flow





The Palmer River series is available now. The River Series comprises 13 models and covers the central requirements of musicians and sound engineers – whether live or in the studio, in the rehearsal room, or at a spontaneous street gig.

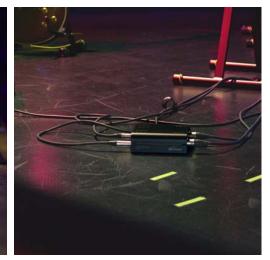
Based on high-precision audio circuits, the solutions developed in Germany support a transparent signal flow that – not unlike a river – results in a large, open (sound) structure.

Based on an unmistakable and uniform design language, all Palmer River Series product enclosures are made of solid aluminium and feature a robust front made of steel, which guarantees years of reliability in a hard everyday life on stage and in the studio. This is one of the reasons why Palmer offers a 5-year warranty on all products.









<section-header>

palmer-germany.com

ADJ FOCUS SPOT 7Z





The Focus Spot 7Z is the latest addition to ADJ's extensive Focus Series of LED-powered moving head fixtures, which all offer carefully curated feature sets, robust build quality, and excellent value for money. Powered by a potent 420-Watt white light LED engine, which has a native color temperature of 8000K, the unit's high-quality optics ensure a crisp even output. The LED engine offers an impressive 20,000 hour average lifespan, effectively removing the inconvenience and expense of lamp replacements. It also supports smooth 16-bit electronic dimming as well as variable speed strobing from 1 to 20Hz. adj.com



ADJ expands Encore Profile Pro Series

Two new high definition zoom lens options are now available for ADJ's popular Encore Profile Pro WW and Encore Profile Pro Color ellipsoidal theatrical lighting fixtures. The new EP LENS 2550Z (25 - 50°) and EP LENS 1530Z (15 - 30°) make these already versatile fixtures even more convenient to use, allowing for field angle adjustments to be made quickly and easily without the need to swap lens assemblies. Both lenses have been meticulously designed and precision engineered to ensure maximum efficiency and flawless output. Their optical systems each incorporate a plano-convex aspheric front lens,



combined with a bi-convex aspheric rear lens, which have both been treated with an anti-reflective coating. In addition to manual zoom, the lenses also offer manual focus control, allowing adjustment of the beam edge from soft to hard. The lens movement is designed to be smooth and effortless, allowing for easy adjustment with just one hand. This enables a single user to simultaneously set the field angle and focus, ensuring a quick and efficient workflow. 20-gauge stainless steel 4-blade shutter assemblies allow for meticulous sharpness without any halation. In addition, on the front of the lenses are sturdy gel frame holders, each with two accessory slots and a top mounted, quick release, electroplated black gel frame retainer. adj.com

AVL TIMES PRODUCTS

Laserworld RTI NEO 12



With the release of the RTI NEO 12, the very successful RTI NEO 6 got a powerful sibling. RTI NEO 6 has been the first laser beam array bar with scanners in the world, and the demand for the same durability and build quality but with higher powers came up over the years. With the RTI NEO 12 this demand is satisfied: With 12W power this laser beam array bar with scanners is nearly eight times as powerful as the NEO 6. It has a color balance of 6 x 600mW red, 6 x 600mW green and 6 x 800mW blue, so the RTI NEO 12 has extremely good visibility and is even suitable for large scale festivals and big concerts. The excellent beam specifications maintain good visibility even from longer distances. It has the same professional DMX control features as the RTI NEO 6, so seamlessly integrates with existing NEO 6 and goes very well with any lighting or multimedia setups. The good scanners in the RTI NEO 12 create crisp patterns and draw accurate corners, which is important for professional use.

laserworld.com

Modulo Pi Modulo Kinetic Version 5



Modulo Pi is pleased to announce the immediate availability of Modulo Kinetic Version 5. The media server new version offers a full array of features for interactivity. Enhanced with these new capabilities, Modulo Kinetic is positioned as the fullyintegrated solution for immersive and interactive experiences. Designing the next generation of media server solutions, Modulo Pi is pleased to announce the official release of Modulo Kinetic V5. Modulo Kinetic V5 adds the support of various sensors to meet the needs and budget of any type of project: 2D LiDAR from Hokuyo and Leuze, 3D



LiDAR from Ouster, but also Azure Kinect, Orbbec cameras, Leap Motion... Integrated into Modulo Kinetic's internal library of devices, the sensors can be calibrated in seconds, allowing the media server to flawlessly retrieve the position of one or multiple users to generate the interactive experience. A library of effects available as nodes is also embedded in Modulo Kinetic. The media server's nodal compositing tool allows nodes to be chained and cumulated to create unique effects. Modulo Kinetic's timelines system makes it easy to mix interactive layers and pre-calculated media for smooth playback. modulo-pi.com

