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**CHRISTIE PROJECTORS CREATES THE PAST, PRESENT
AND FUTURE OF SHANGHAI FOR WH MING HOTEL**



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**INSTALL
REPORT**

**D.A.S. AUDIO SYSTEMS CHOSEN FOR EXTENDED
SOUND SOLUTION FOR TRENDY I-BEAM BAR**

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COPY**

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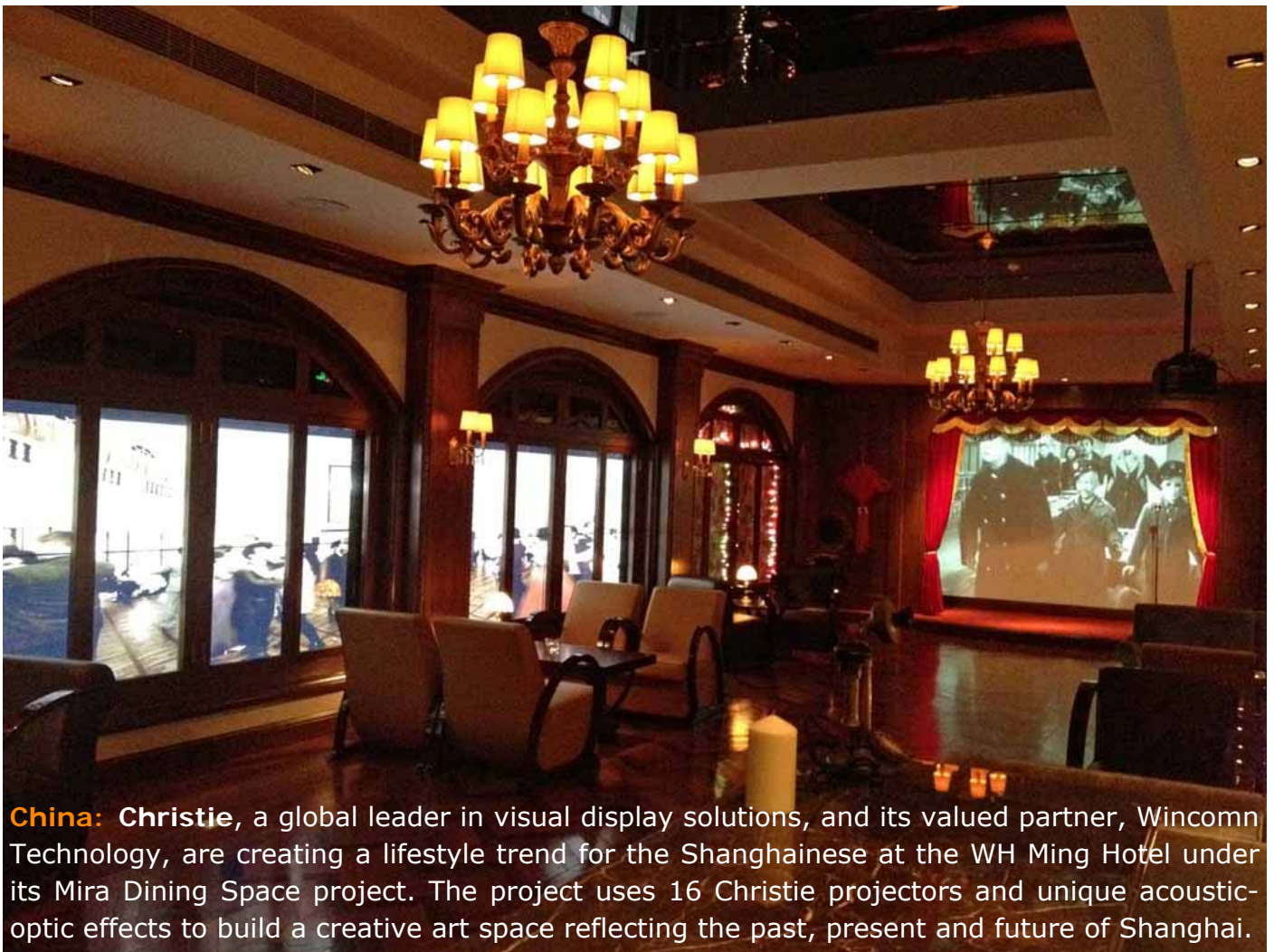
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Christie Creates A Lifestyle Trend Integrating The Past, Present And Future Of Shanghai



China: Christie, a global leader in visual display solutions, and its valued partner, Wincomn Technology, are creating a lifestyle trend for the Shanghainese at the WH Ming Hotel under its Mira Dining Space project. The project uses 16 Christie projectors and unique acoustic-optic effects to build a creative art space reflecting the past, present and future of Shanghai.

WH Ming Hotel is a five-star hotel brand of Xiao Nan Guo Group, a world-renowned leader of exquisite food and fashion lifestyle. Mira Dining Space, located on the fifth floor of WH Ming Hotel, is a creative art space co-designed by Sherwood Hu, a famous film director, and Huimin Wang, the hotel founder. Drawing inspiration from the Shanghai Pavilion's theme video featuring the history and future of the Shanghai transportation system, the Mira Dining Space tells a Shanghai story through various styles of cuisine in different eras. As guests enter the Time Tunnel, they are immersed in different time zones showing specially-designed images displayed by the Christie projectors. At the exit of the Time Tunnel is a foggy gate with a maid from Qing Dynasty's imperial palace created by

Christie projectors and a fog screen. Then a magnificent Nobility Restaurant of Qing Dynasty comes into sight after passing through the foggy gate. This scene uses a 25 percent blending projection generated by Christie projectors on a 12.36-meter wide and 2.83-meter high curved screen. Together with the images of the new Qingming River Scene, it creates an immersive environment for the guests. Across the Christie-created virtual revolving door is the Paramount of old Shanghai with a small stage at the front projecting old Shanghainese movies. The guests then proceed to the Stone Gate of old Shanghai city. The Stone Gate is a life-sized modeling screen measuring 2.7m by 1.8m, with a 9:16 contrast ratio provided by Christie projectors. ▶



Across the Christie-created virtual revolving door is the Paramount of old Shanghai with a small stage at the front projecting old Shanghainese movies

The cascading projection technology makes use of the high-tech images to bring people back to the modern time.

"The Mira Dining Space project of WH Ming Hotel took more than nine months to complete," mentioned Li Yuqiang, head of the project, Wincomn Technology. "Compared with the conventional luxurious decoration style, it creates a new fashion for the hotel industry with the virtual decoration of artistic space through acoustic-optic image technology on a large scale. Wincomn Technology is honored to bring the artists' creative ideas into reality by cooperating with the world's leading projector manufacturer, Christie."

The next stop is a factory canteen where the Christie projectors and short zoom lenses present the canteen's windows, which show the virtual scenery outside the window of textile mill employees getting off work. The impressive images bring people to the old days. Finally, the guests arrive at an area laid out in contemporary Huangpu River style. Here, four Christie projectors in a two by two setup provide a 20 percent blend on a quarter of a semi-spherical screen, a curved screen, a dome screen and a rectangular screen.

"Together with WH Ming Hotel and Wincomn Technology, we are pleased to be involved in creating a lifestyle trend in Shanghai," said Lin Yu, vice president, Christie Asia Pacific. "As business entities recognize the importance of visual display technology, the Mira Dining Space project is a testimony to how the modern world is adopting the technology to create a lifestyle statement. With WH Ming Hotel as an adopter of our technology, we hope to work with more aspiring individual artists and companies to make a difference to the modern world."

Visit Christie at www.christiedigital.com

I-Beam Bar Amps Up Their Sound With More D.A.S. Audio Systems



Malaysia: In less than a year the I-Beam Bar has become one of Malaysia's trendiest disco clubs. The hotspot, with room for 1,500 guests, combines both live music and DJs in a high-tech venue with the latest in lights, effects and sound. Located in Batu Pahat, Johor, around a two-hour drive from Malaysia's capital city of Kuala Lumpur, the venue is well-known amongst clubbers even in the capital, who know that making the trip to Batu Pahat is worth it for I-Beam's incredible club experience. The bar's popularity led owners to decide to expand their entire sound system a mere six months after opening their doors, doubling the number of the existing D.A.S. products in time for the club's one year anniversary in November. Installation for the extended system started in early August 2012 and was completed

less than a month later. Club owners contracted **Search Music Sdn Bhd**, D.A.S. Audio's exclusive distributor in Malaysia, to handle the complete installation of the new D.A.S. Audio products. Dennix Yeow, Managing Director of Search Music, worked closely with **D.A.S. Audio Asia** Systems Engineer Ron Koh on systems design and set up.



D.A.S. Aero 8A

The biggest challenge for sound techs at a venue of this size - the I-Beam Bar has a 90 x 80 feet main area with ceiling heights ranging between 17-20 feet - is achieving even, solid coverage throughout the entire bar. To meet this challenge the sound team doubled the number of units in the club's main FOH system: four new **Aero 8A** units were added to I-Beam's eight existing units, bring the total to 12 **Aero 8A** systems flown in equal clusters per side. Eight of the compact, full-range **Avant 15A** systems were added to the mix as delay fills for an extra punch. Sound techs opted to boost the low frequency support by adding additional **D.A.S. Audio LX-218CA** systems for a total of eight units set up in a typical left-right configuration. Four new **Avant 12A** serve as DJ monitors and four **Action M12A** speakers as stage monitors. **Avant 118A** handled side fill and the system was rounded out with a **D.A.S. DSP-2060** and **DSP-4080** digital signal processor.



The upgraded sound with the expanded professional D.A.S. Audio systems has been a resounding success and I-Beam Bar's one-year anniversary was an event to be remembered. As the owner of I-Beam Bar affirms, "I am very happy with this system, it really performs very well every night... I'm glad to see how the customers enjoy music to the full."



Visit D.A.S. Audio at www.dasaudio.com

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NEWS

Allen & Heath Appoints Seapower As Distributor

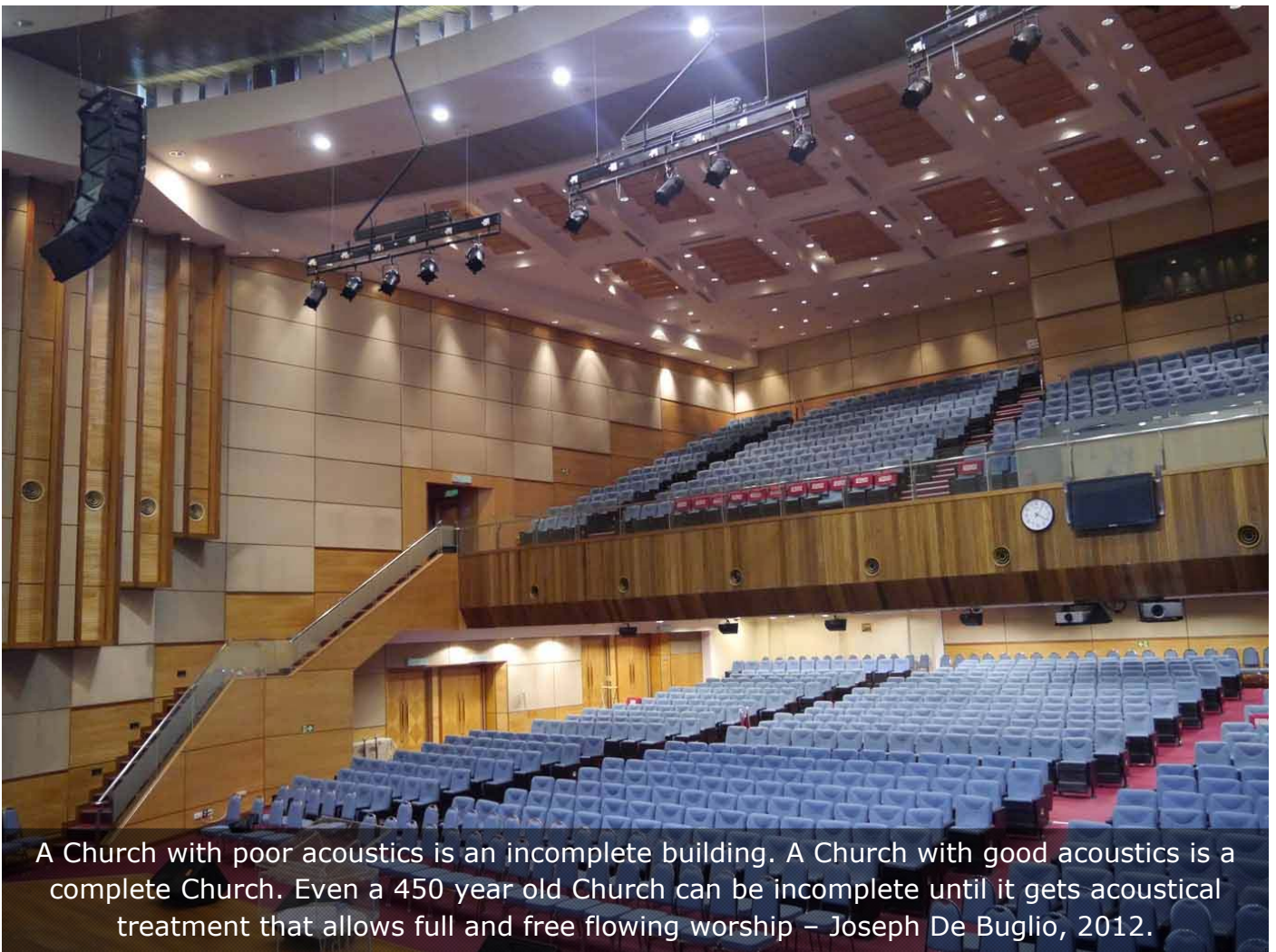
Taiwan: Allen & Heath has appointed **Seapower Technology Co., Ltd** as their distribution partner in Taiwan. Seapower has close contacts with A&H's China distributor, **Sanecore**, and therefore has access to a wealth of product knowledge and experience with the brand. "We are honoured to have been appointed to distribute the prestigious Allen & Heath brand. In particular, we see a lot of potential for the digital products and look forward to professionally supporting these products as the brand grows in Taiwan," comments Douglas Chang, owner of Seapower. "We are very excited about this new relationship with Seapower. I've known Douglas for many years and I've been very impressed with his professionalism and his team's technical expertise. I look forward to a successful relationship," comments Bardy Hayes, director Global Market Management and Allen & Heath's regional sales manager.



Seapower's pro audio sales and technical staff

Visit Allen & Heath at www.allen-heath.com

Audio Solutions Equips SIB KL Auditorium And The SMCC With Full NEXO Sound Solutions



A Church with poor acoustics is an incomplete building. A Church with good acoustics is a complete Church. Even a 450 year old Church can be incomplete until it gets acoustical treatment that allows full and free flowing worship – Joseph De Buglio, 2012.

Malaysia: Audio Solutions Sdn Bhd, the Malaysian distributor for NEXO, and a related company to Concept Associates (KL) Sdn Bhd, has recently equipped the Bangunan Yin Auditorium for the Sidang Injil Borneo KL Church's (SIBKL) which is located in the township of Damansara, Kuala Lumpur, with a full NEXO sound solution. The Bangunan Yin Auditorium which can seat up to 1,400 people is currently being used for worship purposes. Audio Solutions' installation of the Church's previous NEXO sound reinforcement system has been used by SIBKL in Bangunan Yin for over a year (and still counting), and so far the system is reported to be running smooth and performing well. One of the recent upgrades in the Church is the pairing of the main PA system with a **Yamaha M7CL**

digital sound mixing console to achieve its optimum sound quality.

In recent times, with the expansion of the Church and its need to reach out to its growing ranks of members, the Church has built a new sanctuary in Kelana Jaya, in the Sunway Mas Community Center (SMCC).

NEXO Systems in Bangunan Yin Installed by Audio Solutions

- | | |
|------------------|----------|
| • NEXO GeoS12 | 12 units |
| • NEXO PS10R2 | 4 units |
| • NEXO PS8 | 8 units |
| • NEXO RS18 | 2 units |
| • NEXO NXAMP4x4 | 1 unit |
| • NEXO NXAMP4x1 | 1 unit |
| • NEXO PS8UTD-V3 | 1 unit |



Bible preaching
In progress
With NEXO

NEXO Systems in SMCC Installed by Audio Solutions

- NEXO GeoS12 13 units
- NEXO PS10R2 4 units
- NEXO RS18 2 units
- NEXO NXAMP4x4 2 units

Likewise in Bangunan Yin, sound quality is one of the main influencing factor to ensure that church members enjoy the worshipping, bible preaching, jamming sessions and event celebration experiences. Obviously, very delighted by the favorable sound quality of the NEXO speaker systems in their old sanctuary and a good working experience with Audio Solutions, the management of then Church once again decided to install another NEXO sound reinforcement system in their new SMCC sanctuary.

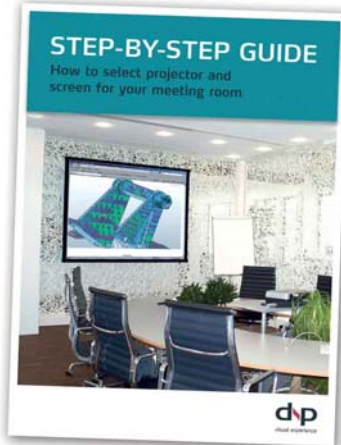
"We felt honoured that SIBKL has called us again to repeat their order for another

NEXO system. The persons in charge of SIBKL, Mr. Wong and Mr. Andrew Chan, are very knowledgeable on sound systems and any issues related to acoustics. When they awarded us with the second contract, we knew that we had already met with their expectation in Bangunan Yin, and now they expected us to impress them once again in SMCC with the extraordinary sound quality from NEXO systems," said Rico Yong, the system engineer of Audio Solution.

Rico also commented how Audio Solution had tried its best to assist SIBKL to achieve a richer worship experience in their new sanctuary, not only at the installation and system configuration, but even until the 'on-show' time. The Audio Solution team was always nearby to avoid mistakes from happening. "Working with SIBKL was a great pleasure, and we truly appreciate the opportunity and positive affirmation given by SIBKL to NEXO and our company," exclaimed Rico.

Visit Audio Solutions at www.audiosolutions.com.my

dnp Makes The Most Of Meeting Room Presentations



Manufacturer: As specialists in providing optimised conference room displays, **dnp denmark** have published a new 13-page step-by-step guide on their website, in the form of a sub-page in its Conference Room section.

The Guide answers the questions that any meeting convener, onsite AV/IT manager, systems integrator and supplier should be asking in order to get the maximum impact from each and every AV presentation. This includes type of screen, size and format (whether plain white or optical), the required projector brightness and lens – and image sources/presentation software.

The brochure takes as its premise the belief that most presenters today prefer a well-lit meeting room, where they can see their audience and read facial expressions and body language. However, this requires ambient room lighting, and thus a badly advised projector/screen combination can wash out even the best presentation.

The Guide takes readers on a seven-stage journey towards achieving the optimum matched projector and screen combination so that there is no need to dim the lights.

Visitors to www.dnp-screens.com can request the conference room mini guide by submitting the webform. This will give them access to the downloadable PDF.

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From the ballpark to the ballroom, from a rock concert in an outdoor venue to an orchestral performance in a theatre and from a House of Worship to the nightclub, the **New FBT MITUS Powered and Passive Line Arrays, Speakers, Subs and Stage Monitors** fit the bill. Everywhere.



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Crestron Asia Reinvents Presentation With DigitalMedia All-in-one Solution Series



Mr. Jason Tirado, Crestron, Executive Director of Crestron Electronics, Inc.



Through the powerful DMPS series, the violin live performance was perfectly broadcasted live to all screens of the ballroom, without any delay or quality loss

China-Hong Kong: Crestron Asia Limited ("Crestron Asia"), the Asia headquarters of Crestron Electronics, Inc., has launched the new **DigitalMedia™ Presentation System (DMPS) Series** at the "Experience the power of DigitalMedia Presentation (DMPS Series) Revolution Seminar." The new features of the all-in-one solution set the bar for presentation technology and introduce Crestron's new brand positioning, **Integrated by Design™**. Crestron products are **Integrated by Design** to deliver complete technology solutions.

Attended by Mr. Jason Tirado, Crestron Executive Director from Crestron global headquarters, the prestigious tour seminar began in Beijing on 25th October, Shanghai on 30th October and Hong Kong on 1st November. In Hong Kong, he was joined by Mr. Kanny Leong, Director, Asia Operations of Crestron Asia Ltd. The tour seminar aims to demonstrate Crestron Asia's commitment to increasing productivity in offices and schools through innovation and integration.

"The new DMPS Series raises the industry benchmark for presentation solutions," said Mr. Tirado. "The DMPS is easy to install, affordable, and allows designers, our partners and customers to enjoy crystal

clear audio and high-definition video directly out of the box. No more fussing with wires, components and integration problems."

"The seminar allows our partners to experience first-hand the power of the new DMPS Series," said Mr. Leong. "We will demonstrate the system and show attendees how deploying state-of-the-art audio and video can be greatly simplified with our all-in-one approach. Guests will receive a wealth of valuable knowledge from Crestron executives about selecting the best presentation solution."

The new series features three models, including the DMPS-100-C, DMPS-200-C and DMPS-300-C. Each is designed for different levels of performance and venue sizes. Together, they offer a complete presentation control and signal routing solution, featuring integrated control system, multimedia matrix switcher, mic mixer, audio DSP and an amplifier - all from a single 3U rack mount. There is no need for separate components.

To thank guests, three cash prizes, valued at HK\$90,000, were given for purchase of Crestron DigitalMedia™ products as part of a lucky draw.

Visit Crestron Asia at www.crestronasia.com

MA Lighting grandMA2 light In Control At BCEC



Australia: The Brisbane Convention and Exhibition Centre (BCEC) has taken delivery of a **MA Lighting grandMA2 light** console which will become the venue's main, large show lighting console. "It was time we upgraded and the grandMA2 is an awesome console," remarked Brian Nash, AV and Production Services Manager. Michael Hughes, senior lighting operator at the BCEC, took delight in taking the grandMA2 out for its inaugural run and he was thrilled with its performance. "I've used the classic grandMA light for many years but the grandMA2 light is great," he said. "I found the transaction between the grandMA 'series 1' and the grandMA2 very easy. After a few hours on the new board I knew I was going to be confident using it for the first time on one of our larger shows for the year."

The grandMA2 light is the perfect tool to control all kinds of lighting genres like conventionals, moving lights, LEDs, video and media and supplies an intuitive and fast

control of all connected fixtures and channels. The grandMA2 light can handle an almost infinite number of presets, cues, pages, sequences and effects.

"I really like the layout of it: a screen that's stacked vertically, flat faders and the keyboard being inbuilt," added Hughes. "It's just way more comfortable to sit at and very easy to use." The grandMA2 light has 4,096 parameters, 15 motorized executor faders and two touchscreens available.

"I like the executor buttons which I use a lot because many of the shows at the BCEC require quick access," said Hughes. "For the same reason, I like that the cross fade across all the palettes is adjustable really easily. It's great that everything is customizable and easy to change."

Show Technology Australia is MA Lighting's exclusive distributor in Australia.

Visit MA Lighting at www.malighting.com

Alcons Reaches A New Peak With Install In Nepal



Nepal: Investment in **Alcons Audio** systems is being made by cinema owners in an ever-increasing number of countries across the globe. The company has recently broken yet more new territory with the installation of systems in Nepal. Located in the Sundhara district of the capital Kathmandu is QFX Civil Mall, the country's largest shopping area, covering a total of 25,000 sq feet. This houses a new three-screen multiplex cinema, the QFX Cinemas, which are capable of seating up to 939 viewers at any one time. This is Nepal's first truly world-class Cineplex and is one of a trio of cinemas owned by QFX in the city. QFX is the brand name of Quest Entertainment (QE), which was launched in Nepal a decade ago with the QFX Jai Nepal Cinema. The company is also involved in film distribution and production and as such has a thorough understanding of how important high quality sound is to modern cinema audiences.

Installed by Indian audio company **Balaji Sound**, the Alcons systems at QFX Civil Mall feature **CR2** and **CR4** systems, **CB362** subwoofers, **CCS8** high-power surround speakers, all of which have been specifically designed for the cinema market, and **ALC2-ST** amplifier-controllers. "We identified a need for a consistent cinema experience in Nepal," says Bhaskar Dhungana, who along with partners Rajesh Siddhi and Nakim

Uddin owns QE and has developed the QFX brand. "We did a lot of planning and research and have built a brand that provides the Nepali market with an experience that everyone can enjoy. Central to that was making sure that we had the right equipment, which we've sourced from around the world. "Part of that requirement was a top of the range digital sound system and for that we went to Alcons in The Netherlands. Alcons' technology has been extensively used in Japan and Malaysia, but Nepal is the first country in the South Asia region to benefit from it."

"Many of our customers have mentioned that the Alcons systems sound better than those used by our competitors," says Sunita Rana, office executive at Quest Entertainment. "They feel that it sounds more sophisticated and modern, which perfectly complements our aims. We are very happy with the performance of the Alcons loudspeakers."

"I am very pleased that high profile cinema operators in an ever-increasing number of countries are recognising the many advantages that our systems bring," says Alcons Audio co-founder Tom Back. "In providing a superior experience for the audience, they also reflect the quality and aims of the operators, which brings further benefits to the cinema companies."

Visit Alcons Audio at www.alconsaudio.com

Dynacord Vertical Array Systems Take To The Stage For A Live Introduction In Malaysia



Malaysia: In a grand event held in Empire Hotel Subang, Kuala Lumpur, **Bosch** impressed the attendees with the latest **Dynacord Vertical Array Systems**, adding more variety to the range of loudspeakers systems from Dynacord. The Dynacord Vertical Array Systems launch event was attended by 120 people, including Bosch Security Certified Partners, system integrators, various end-users and consultants. The live product demonstrations wowed the audience as they were given a firsthand experience on the compact yet versatile loudspeakers with amazing audio quality.

The event featured a live performance which showcased the quality of the Vertical Array Systems as it blew the audience away. The launch event was a great success thanks to the support of Bosch Security's Malaysia team as well as the people who attended the event.



Visit Dynacord at www.dynacord.com

d&b audiotechnik Installed In Zhongshan Hall



Taiwan: Originally used as a town hall, Zhongshan Hall in Taipei City has continued to host a series of important functions since it was built in 1928. From serving as a venue to presidents such as Richard Nixon of the United States, and Syngman Rhee of South Korea, to the signing of the Sino-American Mutual Defense Treaty and other governmental ceremonies, Zhongshan Hall has earned its designation as a Class Two National Historical Site. Today, the hall is used as a traditional art & culture centre.

First renovated in 2001, the main hall, Zhongzheng Auditorium, seats over one thousand people and these days it serves mostly as a venue for cultural performances. In 2012, the building decided to upgrade its sound system, using **d&b audiotechnik** loudspeakers. With help from system integrator **WeiShin Co., Ltd**, co-designers Alex Poon (d&b China) and audio consultant

Mr. Liu of **Topsound Co., Ltd**, the team created a solution using **Q-Series** and **E-Series** elements from the d&b range to fulfil the exacting requirements of the Zhongshan Hall's management. "We selected d&b's dedicated installation **Qi-Series** loudspeakers for the main system," explained Poon. "Qi is ideal for theatres and venues such as Zhongzheng Auditorium. The sound produced is rich full spectrum; can achieve high sound pressure levels and considering its relative size and light weight, has all the character of a much larger PA." The Zhongshan Hall design comprises **Qi1/Qi7** loudspeakers for main line array, with **E6** as frontfills. Completing the system d&b **MAX12s** were included for stage monitoring. All loudspeakers are powered by the d&b **D6** and **D12** amplifiers. No doubt the next eighty years of Zhongshan Hall's existence will be equally illustrious, filled with more history and wonderful sounds.

Visit d&b audiotechnik at www.dbaudio.com

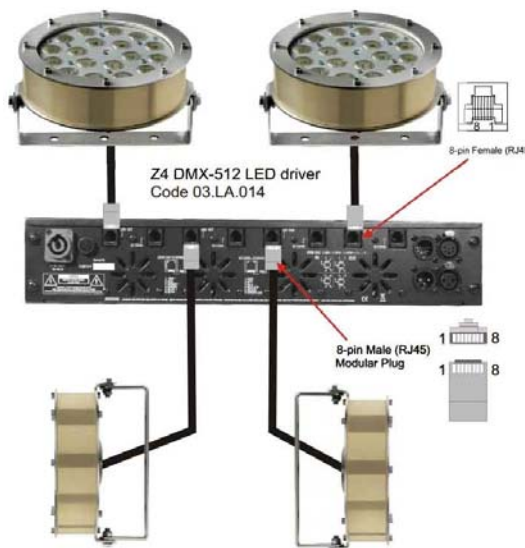
D.T.S. HELIOS And DELTA LED Projectors High-Lights The Dancing Fountain



Japan: The Gotenba Kogen is a luxury resort hotel with a beautiful view of mount Fuji, located in the city of Shizuoka. Among the attractions offered to the resort guests, there is a large hi-tech dancing fountain which impresses with the articulation of its jets and variety of the figures obtained. The hotel has recently added a new wonder to the fountain: a powerful jet of water 70 meters high.

The management of the Gotenba Kogen entrusted **Monarque Co.** – a Tokyo-based company that specializes in this type of work – the task of adequately

illuminating the large fountain and the water jet. Monarque installed an articulated lighting system made of **D.T.S. LED** projectors.



104 **HELIOS BRONZE RGB** underwater projectors fitted with spot lenses light the fountain and the base of the water jet; the HELIOS are powered by 13 **Z8** power supplies / controllers. 4 **DELTA 8 RGB** high-power LED projectors fitted with spot lenses light the water jet, up to a height of 70 meters.

Visit D.T.S. Lighting at www.dts-lighting.com

Alcons VR8 Pro-Ribbon Systems At The Alexis Club



The interior of the Alexis Club



VR8 pro-ribbon full-range speaker

Malaysia: Established in 1995, Alexis Group has five premises in Kuala Lumpur, Malaysia. There are a variety of elements that make the Alexis experience so special: stylish interiors; warm hospitality; delicious food; and the finest jazz music in town. Nestled in Kuala Lumpur's commercial and embassy district, Alexis Ampang's acclaimed programme of jazz performances on weekend nights showcase internationally renowned musicians and local legends. "The installation of **Alcons** systems has certainly fine tuned the premise's in-house live acoustic, which met the musicians' demands for superb sound and delivered listening pleasure for its audience," says Alexis' Eleen Ng, manager of Alexis.

The system comprises two **VR8** pro-ribbon full-range loudspeakers and two **BF181** long-excursion 18" subs, controlled by two **ALC2** amplified loudspeaker controllers of 2x 1kW output each, with SDP speaker drive processing modules. Featuring an Alcons proprietary **RBN401** 4" pro-ribbon driver, the VR8 combines remarkable clarity and intelligibility with high SPL. The unit includes dedicated filtering, with system equalization

done by the ALC, which means the power capacity of the speaker components is fully utilized. **Signal Integrity Sensing™** (SIS) pre-wiring ensures complete cable/connector compensation between the VR8 and ALC, while the asymmetrical enclosure design provides for very flexible mounting options.

Meanwhile, the BF181 features a deep-tuned cabinet, vented double-spider frame and SIS pre-wiring, delivering a high quality, tight and accurate sub-bass response. This makes the BF181 the ideal complement to the VR8 for high fidelity reproduction of jazz, acoustic and classical music. "We needed a system that was compact but could produce the Hi-Fidelity audio quality that we required at both low and high sound pressure levels," says Alexis' Eleen Ng. "The Alcons pro-ribbon technology delivers superb sound and its precise dispersion pattern reduces the acoustic difficulties that we previously experienced. Combined with the excellent sound quality, the Alcons system has proven to be the ideal solution for delivering the high quality sound reinforcement that our customers demand."

Visit Alcons Audio at www.alconsaudio.com

Visual Unity Launch New Version Of 4K Gateway Real-Time Streaming Device



Manufacturer: Visual Unity has a new version of its award-winning product - 4K Gateway for the next generation of 4K content distribution supporting low-latency internet video up to 3D 4K. Hailed as the latest step in the evolution of online video, 4K digital video offers approximately four times the resolution of the most widely-used HD television format, and 24 times that of a standard broadcast TV signal. The cost-effective 4K Gateway streaming device allows film, post production and visualisation companies to harness the power of 4K over unlimited bandwidth/distance in collaborative environments.

The 4K Gateway is currently being integrated into Visual Unity's **vuMedia™** solution. vuMedia™ is a PaaS (Platform as a Service) that includes a comprehensive suite of modules, enabling content owners to deliver video through the internet. The current version operates in uncompressed mode providing bit-by-bit precise 3D 4K transmission with very low latency. JPEG 2000 compression with a DCI profile and subframe latency will be available in the forthcoming release.

"With the broadcast market discovering 4K format, and 4K taking off in the worldwide film industry, there is an increasing call for 'faster-than-software' based compression solutions," says Jakub Kabourek, CEO of Visual Unity. "Working in conjunction with our partners, we have now integrated JPEG 2000 FPGA-based compression technology into 4K Gateway so that we can meet the new challenges of this growing market."

4K Gateway has been developed in cooperation with Visual Unity, an international system integrator and Czech academic association CESNET and Prague-based independent post-production facility ACE.

Operating over dedicated photonic networks or shared Internet, 4K Gateway offers very low latency of less than 1 ms plus networking delay, thus ensuring a truly interactive experience. Higher buffering can be optionally selected to compensate for high network jitter or for special applications. 4K Gateway uses industry standard HD-SDI interfaces for eight video inputs and eight video outputs, all working simultaneously in multi-channel full-duplex operation to deliver 4K video. Each HD-SDI channel can operate in full mode (all areas of a frame transmitted) or view mode (only selected areas of a frame are transmitted). The latter allows the transmission of eight HD-SDI channels over a single 10 Gigabit Ethernet interface, thus enabling uncompressed 3D 4K or 4K RGB (4:4:4) transmissions.

Visit Visual Unity at www.visualunity.com

EV Speakers Produce Audio Excellence In Vidya Pratishthan University's GaDiMa Auditorium



India: Founded in 1972, Vidya Prastisthan University has been establishing itself as an institute of excellence and propagator of value-based education complemented by state-of-the-art technology. The school firmly believes that entertainment and co-curricular activities go hand in hand with the school syllabus to create a holistic form of education, and the revamp of GaDiMa auditorium is the perfect testament to that belief. With the major facelift GaDiMa auditorium is going through, a world class auditorium was beginning to take shape, which meant that the end-user needed a world-class audio system as well to complement the auditorium which seats more than 2000 people. The end-user requirements were specific; the audio systems had to be user-friendly, functionally effective and aesthetically pleasing, which by no measure was an easy task. This led the end-user to engage Mr. Vijay N Purandare as a consultant to this project due to his expertise in this area. After much deliberation and evaluation, the end-user zeroed in on Bosch's EV line of products, in view of its high quality, exceptional sound and slick aesthetics.

Installed by **Microline India Pvt. Ltd.**, the **EVA** line array speakers - **SX300** first ring speakers and **ZxA5** monitor speakers - astonished the end-user with their incredibly clear sound and beautiful design. **CPS 2.9** amplifiers were installed and **Net Max System Controller** was utilized to help manage all aspects of the professional sound systems in the auditorium. The ease of installation of the various systems also meant that a lot of time and effort was saved as well. Customer experience was enhanced with high quality EV wireless hand held and Lapel Microphones.

The one-brand solution coupled with system management by Net Max controller made it very user-friendly for the end-user to operate and maintain the systems as a whole. A one brand solution makes for ease of operation and maintenance. The exceptional sound quality of the speakers allow for more effective usage as well as a greater user experience. Also, the sleek outlook of the speakers complemented the façade of the auditorium very well, enhancing the intended image of a world class facility.

Visit Microline India at www.microlineindia.com

Crestron Asia Opens Its Beijing Showroom



China: Crestron Asia Limited has opened its new Beijing Showroom. Guests of honour Mr. Tony Yeung, the Director of Crestron Asia, Ms. Phoebe Chu, Assistant Marketing & Communications Director, Crestron Asia and Mr. Vincent Qin, General Manager, North China, Crestron (China) led the ribbon cutting and toasting ceremony. The prestigious event was also attended by several renowned distributors of the region.

The establishment of Beijing Showroom not only marks a new milestone in the Crestron-Beijing office, but also underscores Crestron Asia's commitment to promoting intelligent living in China.

"With the rapid growing demand of intelligent technologies in residential and commercial markets in China, this fully functional Showroom will definitely offer visitors more opportunities to experience the most advanced control and automation products of Crestron, and see firsthand how technology can be artfully blended into our homes and workplaces," said Mr. Tony Yeung.



The conference area with the CaptureLiveHD™ system

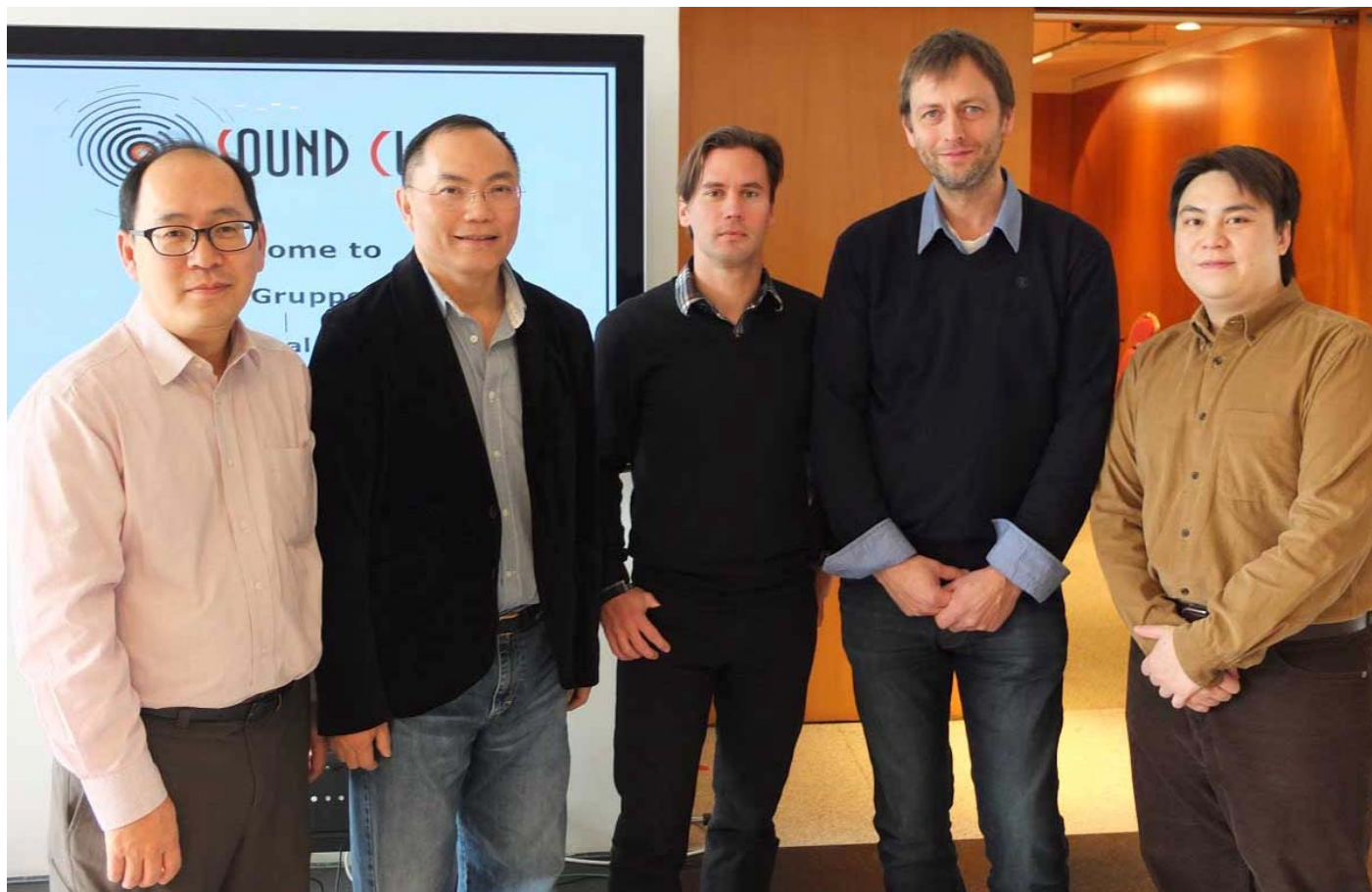


The visitor-friendly touchpanel and keyboard area

Showcasing full spectrum of intelligent products with new concept, the Crestron Asia Beijing Showroom features six main areas – DigitalMedia™ area, lighting area, home area, conference area, touchpanel & keypad area and new product area.

Visit Crestron Asia at www.crestronasia.com

TC Group Takes It Sound Clinic On Tour



L-R: Chan Wei Him, Director of Sound Classy Holdings Ltd., Patrick Lau, Export Sales Manager (Asia-Pacific) of TC Group International, Miguel Hadelich, VP of International Sales of TC Group International, Thomas Vestergaard, Technical Sales Manager of TC Group International, and Chris Fung, Director of Sound Classy Holdings Ltd.

Asia: In order to provide better support to the Asia countries, TCG Group Export Sales Manager Patrick Lau organized a 3-city Sound Clinic Tour to support their distributors in Vietnam (*Hanoi, 9-13 Jan*), Hong Kong and Macao (*Hong Kong, 13-16 Jan*), and the Philippines (*Manila, 16-20 Jan*). TC Group's new Vietnam distributor, **Viet Thuong Trading Service Manufacturing Corp.**, welcomed Graham Hendry, VP of AET and Thomas Vestergaard Technical Sales Manager of TC Group International to run the product training of Tannoy and Lab.gruppen/Lake products for their staff. The seminar definitely gave the Viet Thuong team a better insight of Tannoy and LAB/Lake products. The team also took a day off to visit some of the churches in Ho Chi Minh City, and Graham and Thomas gave the local engineers advice on which

product to use for which specific application. Mr. Miguel Hadelich, VP of International Sales of install and tour joined the TC Group team in Hong Kong to meet with their tour sound distributor **Sound Classy Holdings Ltd.** They also met senior consultants, David King and Zane Au, Director of Shen Milson & Wilke Ltd (Hong Kong), along with Ian Harris, Managing Director, and Louis Chui, project engineer of **ihD Ltd.** A LAB/Lake product seminar was presented to system integrators, rental owners, and Hotel/Casino operators in Macao. Alan James Jewell, Executive Director of **Big Events** was also keen to know if TC's product range can fit into his upcoming projects. **Tannoy CMS** ceiling speakers were installed in the Venetian and Wynn Hotels, while **Lab.gruppen C Series** power amplifiers are installed in the Galaxy Resort.

Visit TC Group International at www.tcgroup-international.com

NEC Establishes Branch In Myanmar

Myanmar: **NEC Corporation** has announced the establishment of a branch office in Yangon, aiming to develop the country's information and communications technology (ICT) and social infrastructure. The new office is scheduled to begin operations in January 2013.

NEC

"NEC has been contributing to Myanmar's communications infrastructure for 35 years through the provision of telephone switchboards, wireless equipment, satellite ground stations and broadcasting systems," says Shin Sakamoto, general manager, Greater China and Asia Pacific Sales Division, NEC Corporation. "In the future, NEC aims to continue responding to local needs and strengthening regional business through the provision of international communication networks such as submarine cable systems, ICT infrastructure for industrial parks, disaster prevention systems, security systems, e-government systems and mass-market products such as servers." Going forward, NEC also plans to open a branch office in the city of Naypyidaw as part of its ongoing contributions to the development of Myanmar's ICT technologies.

Visit NEC Corporation at www.nec.com

Studio Equipment Corporation Adds On ARX



STUDIO EQUIPMENT

Japan: **ARX Systems**, the Australian based designer and manufacturer of Digital and Analogue interface and signal processing products has appointed Tokyo based **Studio Equipment Corporation** as their new Distributor for Japan. Specialising in the Broadcast, Studio, and Installation markets Studio Equipment Corporation exhibited ARX products at last months Interbee Exhibition in Japan. ARX's Managing Director Colin Park said "Studio Equipment Corp's Toshihiro Inada told ARX that the exhibition was very successful for them with many visitors expressing interest in the ARX product ranges, especially the USB Direct Box and MSX Mic Line Splitter ranges which were being exhibited in Japan for the first time."

"We're excited to be working with the Studio Equipment Corporation team in Japan, they're enthusiastic about the possibilities for ARX and our products amongst their extensive client base." Along with ARX Studio Equipment Corporation also represents manufacturers including Harrison, HME, Trilogy and Dorrough in Japan.

Visit Studio Equipment Corp. at www.studioequipment.co.jp

Relacart Sponsors CA 001 Audio Training Course



Outdoor training being conducted using the HR-30S UHF Single Channel True Diversity Wireless Systems

China: The 10th CA 001 Audio Technical Training Course was conducted at the Guangdong Electronic Technician College from November 3, 2012, and goes on for 20 days. The training curriculum is mainly about communication and practices of audio technology, and as part of the lessons, it featured a demonstration using the **ER-3300** UHF Dual-channel Wireless Microphone System and **HR-30S** UHF Single Channel True Diversity Wireless Microphone System manufactured by **Relacart Electronics Co., Ltd.**

For an outdoor training exercise, it was the HR-30S Receiver unit which captured the attendees' attention. This is truly because of its state-of-the-art technology and elegant design such as its "AFS" (Auto Frequency Selection) button in which the 3S and the receiver will auto-scan and lock-on to an open, interference-free frequency. It also has a built-in Ethernet interface for monitoring and controlling system parameters with



Course attendees showing a lot of interest in the systems

"RWW 1.0" Control Interface software. It was obvious during the course that the attendees were very impressed with the HR-30S' wireless technology and presented a lot of questions to Mr. Zhang, the Sales Director at Relacart Electronics. A man rich in experience and technology, Mr. Zhang answered all the questions with a dash of humour which helped to make the training an enjoyable experience for everyone.

Visit Relacart Electronics at www.relacart.com

SINGAPORE**February 5-7, 2013****Introduction To Crestron**

Venue: Crestron Asia (S) Pte Ltd
701 Sims Drive, 01-04 LHK Building
Tel: +65 6846 0215
Email: Ms Rena Ong rena@crestronasia.com

February 19-20, 2013**Commercial System Design**

Venue: Crestron Asia (S) Pte Ltd
701 Sims Drive, 01-04 LHK Building
Tel: +65 6846 0215
Email: Ms Rena Ong rena@crestronasia.com

July 17-19, 2013**PALME ASIA & INSTALL ASIA**

Venue: MBS Expo & Convention Centre
Website: www.pamleseries.com/asia

MALAYSIA**March 14, 2013****NEXO STM Product Launch**

Concept Associates (KL) Sdn Bhd
Venue: Selangor Turf Club, Sungei Besi
57100 Kuala Lumpur
Tel: +603 9131 4399

March 18-22, 2013**PROLYTE ASIA PACIFIC****18th Basic Rigging Training & Workshop**

Venue: Lot 59-1 Jalan 51/205,
The Highway Centre, PJ, Selangor
Register at: www.prolyte-asia.com
Email: infopap@prolyte.com

INDIA**September 17-19, 2013****INFOCOMM INDIA**

Venue: Bombay Exhibition Centre, Mumbai
Website: www.infocomm-india.com

May 30 - June 1, 2013**PALM INDIA**

Venue: Bombay Exhibition Centre, Mumbai
Website: www.palmexpo.in

Oct 9-11, 2013**BROADCAST INDIA**

Venue: Bombay Exhibition Centre, Mumbai
Website: www.broadcastindiashow.in

MIDDLE EAST**March 12-13, 2013****CABSAT**

City/Country: Dubai, UAE
Venue: Dubai
Website: www.cabsat.com

May 14-16, 2013**PALME MIDDLE EAST**

City/Country: Dubai, UAE
Venue: Dubai World Trade Centre
Website: www.palme-middleeast.com

CHINA**March 9-12, 2013****China International Expo on Pro Sound & Light 2013**

Venue: Guangzhou
Website: www.soundlight.cn

March 21-23, 2013**CCBN**

Venue: Beijing
Website: www.ccbn.cn

April 10-12, 2013**INFOCOMM CHINA**

Venue: Beijing
Website: www.infocomm-china.com

Jun 14-16, 2013**PALM EXPO CHINA**

Venue: Beijing
Website: www.palmexpo.net

VIETNAM**November 6-8, 2013****PALME VIETNAM & INSTALL VIETNAM**

City: Ho Chi Minh City
Venue: Saigon Exhibition & Convention Centre
Website: www.palme-vietnam.com

Waveform Integrity Testing

White Paper by Flare Audio

Background

The visual information supplied by loudspeaker manufacturers at the point of sale is of vital importance to the customer. Quality of sound is difficult to communicate to the end user without actually hearing the product, yet potential buyers form initial judgments on loudspeaker products based on a wealth of visual material, from written brochures to a variety of graphic devices such as audio test measurement charts. Currently, standards of information provided by audio manufacturers to assist the buyer in their choice of product are not high enough. This white paper asserts that current information supplied to the user is incomplete, and that a Waveform Integrity (Wi) test should be adopted as standard by the audio industry in all loudspeaker sales

Current Information

The test data usually provided by manufacturers as a measure of loudspeaker quality is the frequency response graph (FRG). The frequency response refers to the range in which the speakers can reproduce sound in a fairly uniform manner. An FRG will produce a simple frequency response (SFR) and it is commonly accepted that a wide SFR does show value. But, on its own, is not an accurate indicator of sound quality.

What is Missing?

At its core, frequency response is a measure of uniformity, not quality. Quality can only be measured by looking at the original source data, the input sound, and comparing it to the sound reproduced by the loudspeaker. Digital Signal Processing (DSP) can correct frequency imbalance, but it cannot repair sound damage.

A test showing frequency sensitivity becomes irrelevant on its own as every loudspeaker could display a flat sensitivity response through the use of DSP. Therefore a test that attempts to measure pure sound output is required.

Pure Sound

Pure sound is the ultimate goal of every loudspeaker manufacturer. In reproduction, it retains all its original detail as the artist intended and is therefore a more accurate depiction of the musician's art. By retaining its detail, pure sound is perceived more readily by the listener. There is no need to "turn it up" to try to hear detail. Pure sound is more controllable and can be more easily coupled.

Why is loudspeaker sound not pure?

Sound is a series of pulses of air pressure created by a force. In the case of a loudspeaker, this force is the driver. In a loudspeaker enclosure, however, this pure sound is corrupted. There are a number of issues that affect the sound quality produced by a loudspeaker, but the most damaging are resonance and reflection. Resonance and reflection degrade sound waves as energy is absorbed or reflected by the loudspeaker enclosure.



Flare Audio Space S1 have been designed with the objective of Waveform integrity

Loudspeaker manufacturers have spent decades and millions of dollars to try to decrease or correct an enclosure's resonance and internal reflections through dampening, design and/or DSP.

Loudspeakers typically operate between 20-20,000 Hz and play a wide variety of information that can include a whole manner of resonance and delay already in the source material that needs to be reproduced accurately. Electronically created music tends to have less information than that of a live band. This is due to instruments in a live band having their own individual reflections of sound, which give them their character.

Waveform Integrity

Waveform integrity (Wi) is a new term used by this white paper to refer to the degree to which a frequency produced by a loudspeaker can be compared to the electrical input supplied to it.

Loudspeakers should not change or colour the artists original sound. For sound to remain as close to the original as possible, the original sound wave should retain its integrity as it is passed through the loudspeaker.

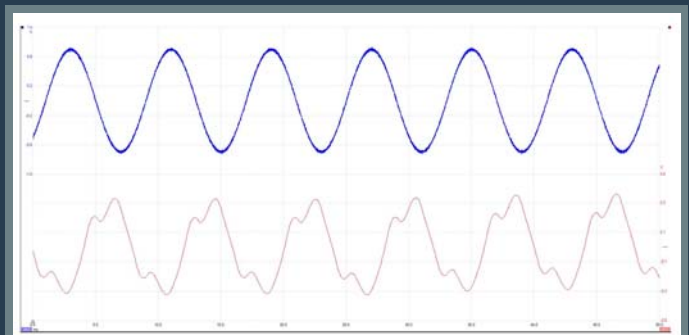
The Test

A Waveform integrity (Wi) test is carried out on a dual channel oscilloscope using an RTA microphone, ideally a higher resolution version. It is in the interest of the tester to use an anechoic chamber, but good results can be achieved in heavily treated spaces. A source signal direct from the generator needs to be fed into the oscilloscope channel A to achieve a reference. The information received by the RTA microphone will be shown on channel B.

Oscilloscopes record wave activity over time, which allows individual waveforms to

be examined in the greatest detail. To carry out a test, a sine wave is generated at a specific frequency from the loudspeaker. This wave energy is captured by an RTA microphone and displayed on the oscilloscope. The RTA microphone should be placed 30cm from the sound exit of a sealed enclosure speaker. In the case of a multi exit (such as a ported or multi-horn loaded loudspeaker) the microphone should be equidistant from the exits. In the case of a multi-way loudspeaker each channel should be tested separately.

The graph below shows an example of a typical sealed box loudspeaker test result at 125 Hz, uncorrected by DSP. The reference signal is channel A and shown at the top (blue) with the recorded result of the loudspeaker performance on channel B (red). What can be seen by this test is that the subject loudspeaker suffers from 125 Hz resonance. The secondary peak information is the delayed sound reflected internally by the enclosure walls.

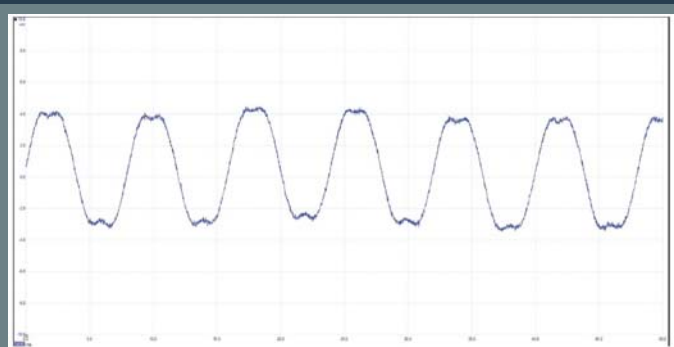


This interference results in a degradation of true sound quality at 125 Hz

The Waveform integrity test is not intended to replace other testing methods, but to provide further information to the user in order to better evaluate the sound quality of a loudspeaker. Sound emitted from a loudspeaker can be measured and evaluated with this test in order to show additional resonance, and therefore sound wave.

The Effect of DSP on Waveform Integrity

DSP is used with loudspeakers primarily to correct for resonance created by the loudspeaker enclosure. DSP does not “fix” a damaged sound wave however, it is only able to mask the damage. To highlight this issue in graphic form, a third Wi 125 Hz test was carried out on the standard sealed loudspeaker with the use of DSP:



Example Sealed Enclosure Loudspeaker Wi 125 Hz test with DSP applied (-6dB at 125 Hz)

What can be clearly seen is the flattening of the dual peaks when DSP is used. While DSP is controlling the energy at 125 Hz, the Wi test clearly highlights the damage that has been done to that frequency by flattening the peak transient.

Flattening of the peak transient means a loss of detail. The sound, although “flatter”, becomes lifeless and dull. This has long been asserted by industry specialists, but Waveform integrity testing as standard disclosure will highlight the difference to users.



Flare Audio Quadhorn Q15 have been designed with the objective of Waveform integrity

Test Criteria

Test criteria should be set to standardise test results between different types of loudspeakers. For example:

Sub Bass: 40 Hz	Low Mid: 200 Hz	High Mid: 5 KHz
Bass: 80 Hz	Mid: 1 KHz	High Frequency: 8 KHz

When a loudspeaker has a limited frequency band, say for example a bass enclosure, the frequency criteria should be adjusted and spread over its usable range. For bass enclosures this should be 30 Hz, 40 Hz, 50 Hz, 63 Hz, 80 Hz, 125 Hz.

Test Disclosure

A Wi graph for each of the tests applicable to the loudspeaker should be shown alongside a frequency sensitivity graph in order to show both the loudspeaker’s sensitivity and quality.

Wi testing will enable users to make an informed decision before hearing a particular loudspeaker. Over time, seasoned users looking at these combined tests will be able to initially judge the audio quality of a new loudspeaker without even hearing it.

Conclusion

We believe that both the user and the industry will benefit from the application and disclosure of Waveform integrity tests.

This white paper calls for European and International standards organisations to raise the level of disclosure by audio manufacturers for their potential customers by requiring that Waveform integrity test results be included in user information for every loudspeaker sold.

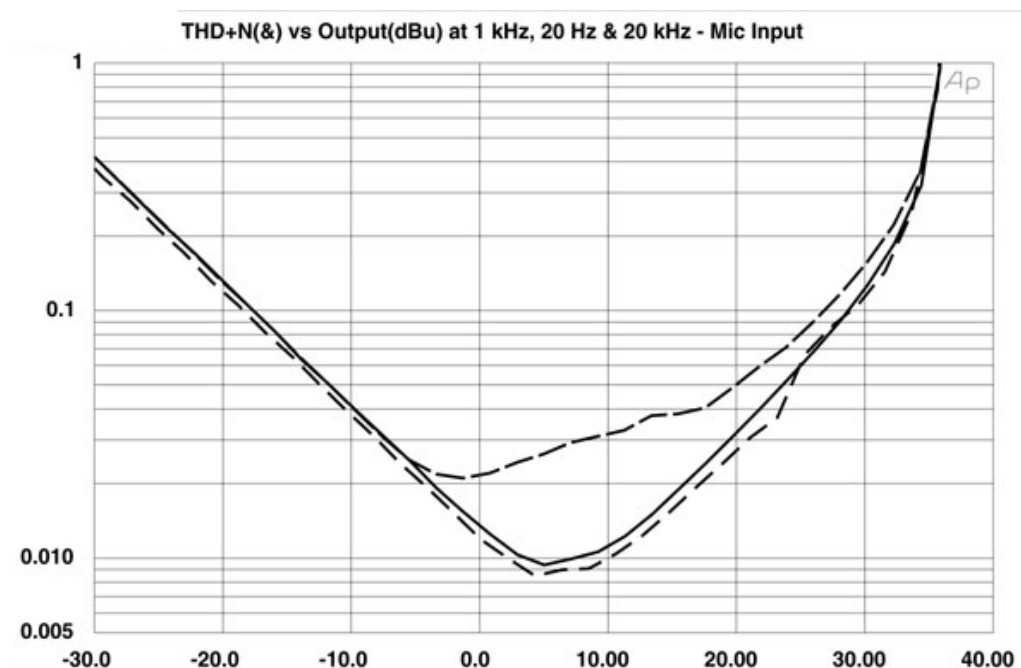
For more info visit www.flareaudio.com



Alan has been active in the Singapore entertainment scene since 1984. His experiences include being a DJ, emcee, radio DJ, studio engineer, professional soundman, club and pub sound and light installer, technical writer, and a whole lot more. Alan currently runs his own company which provides consultancy to the IT and audio industry.

Gain Structure

by Alan Oliveira



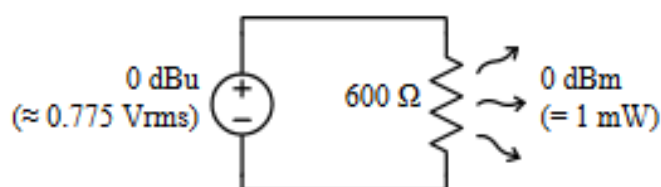
Gain Structure

It was a New Year's Eve event. I was hired as the sound engineer for the event because in addition to having a DJ, they also had a live band. The sound system and band instruments were provided by an audio rental company. They told me that they would set up the sound system and all I had to do was show up and do my stuff. I said I would come earlier and make sure all was setup properly. They agreed and we agreed on a time which was about three in the afternoon. Imagine my surprise when I got there at three in the afternoon and saw that the system had been set up already! Two huge powered speakers and two powered subwoofers, 16-channel mixing console, two wireless microphones and a whole lot of wires snaking on the stage, attached to instruments like the synthesizer, drumset and the like. The band came on to practice shortly after I arrived at the scene so I did not have much time to check the stuff...something which I always do. I just went on the stage, positioned some microphones, checked the connections to the console and that was that. The band got ready

their first practice song and I un-muted the channels. When the guitar first came on, the sound from the speakers was loud, deafening and distorted. What in the heck was going on I thought? The answer to that riddle, dear readers, I will explain at the end of the article.

Standard operating levels in the world of audio

Now this is not going to be a technical lecture in audio engineering but I will keep it brief. There are many articles on SOLs and decibels on the Internet and one can have a field day just looking them up and reading them. In a nutshell, dBu in this case refers to deciBels unloaded. dBu is derived from a 600Ω load dissipating 0 dBm (1 mW) as shown in the diagram below.



By and large, the table below shows the standard operating levels of various classes of equipment.

- + 8 dBu Broadcast audio
- + 4 dBu Professional audio
- -10 dBu Semi-professional audio
- -20 dBu Consumer audio

What this means is that for example, when you try to hook up a hi-fi pre-amplifier to a professional commercial power amplifier, the difference in headroom is more than 20dbu. You might not even get a whimper out of the professional power amplifier. Similarly if you try to hook up a professional broadcast open-reel tape recorder through a professional audio desk, you can overload the pre-amps, leaving a highly distorted signal. Always know your standard operating levels and hook up your gear accordingly to the right gear.

RMS (Root Mean Square) Power versus Peak Power

RMS literally means "root mean square"; it is a kind of average power. This is the actual power output of a piece of equipment like the power rating of a professional audio amplifier for example.

RMS power is different from peak power, and is a more accurate rating of power than peak. If a professional power amplifier lists a power rating in watts and doesn't say whether it is RMS or peak, you can assume it is peak, as peak ratings are typically much higher than RMS power. Manufacturers of high quality audio components will always list the RMS power of their amplifiers. Peak PMPO is a figure that is inflated, to get higher figures for audio equipment - for marketing and advertising purposes.

Now that that has been explained, always reserve some headroom for yourself. Never

push all the faders on your board to full, or all your gain-pots to full. Always put it at about a seventy-percent level, which is roughly what RMS is.

LINE level versus MIC level

Examples of LINE level outputs include microphone pre-amplifiers, audio mixers, the "line out" of an amplifier and some powered speakers. Inputs needing this level include power amps, most signal processors like effects units and some powered speakers. This is in contrast to MIC level which is the typical output of a microphone or DI box. A microphone input accepts signals from microphones or other devices that output at "MIC-level", which is very, very low. So those inputs include a preamplifier, which boosts the mic level by roughly 4 to 10 times. Generally speaking if you send MIC-level signal into a device that needs LINE-level input, you will get weak sound, inadequate processing, and probably extra noise as you boost the signal to compensate. If you send a line-level signal into a device that's meant for mic-level input, you will get distortion.



At an event once, I saw a DJ about ten metres away from the audio-console connect his DJ mixer into the afore-mentioned console by a very long RCA cable. By a rule of thumb, these unbalanced, line-level signals will have some audio loss in long cable runs. The best thing for this would be to get a direct injection (DI) box. What a DI box does is to convert high-impedance LINE-level signals which are about 50,000 ohms into low-impedance 600 ohm signals. Balanced audio cables can go for long distances without any loss in signal. ▶



So what is the secret?

Its no secret to have great sound at an event or premises. Besides some other factors like speaker placement and great acoustics for example, it is all about gain structure. Very, very important.

Oh yeah, what's that? You all wanted to know why the band I wrote about in the beginning of this article had bad sound? Simple. The setup guys had taken the LINE-level feed from the mixer and when they plugged the XLR cables into the rear of the powered speakers, they put the selector at MIC instead of LINE level. So in effect, they were sending a good, not line-level signal into an input where the mic-preamplifiers were engaged, leading to distorted sound! But then again, it was an honest mistake and when one sets up in a hurry, like those poor fellows were obviously guilty of, they may have overlooked that. But all was ok. The switch set to LINE level corrected that mistake.

So remember all you sound guys...take a break once in a while!

You can contact Alan at alan@akelasystems.com
or join his Facebook group sites at
www.facebook.com/groups/sgproaudio/
www.facebook.com/groups/singaporedj/



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MA Lighting MA 8Port Node & MA 4Port Node



With the increasing requirements of clients and designers in both fixed installations and events/concerts, the need for sophisticated solutions for signal transportation and data distribution is inevitable. Also, latest technical developments and requirements have to be met. The MA 8Port Node and MA 4Port Node set an additional benchmark in MA Lighting's networking product range as they feature the 1Gbit capability. They allow the conversion of Ethernet data into DMX or vice versa and fit perfectly into the MA system and its MA-Net2 protocol which is based on this high speed to ensure maximum performance. Optimised for touring and installations purposes, both have a rugged steel housing for a long life even under harsh conditions. The front panel offers a menu button, a USB connector and a 2" colour TFT as well as LEDs displaying the current status. All of these ensure a comfortable operation. The mains switch is located on the back, along with the powerCon and Ethercon connectors, as well as the eight (MA 8Port Node) and four (MA 4Port Node) DMX ports. The MA 8Port Node and MA 4Port Node are fully configurable from the grandMA2 consoles or from grandMA2 onPC. To achieve the highest flexibility, each DMX port can be individually configured as DMX-in or DMX-out.

Both models are also available as "onPC" versions, meaning that the MA 8Port Node onPC and MA 4Port Node onPC can be used in combination with the free-of-charge grandMA2 onPC software running on a computer to provide 2,048 parameters. Using this set up, MA's onPC Nodes turn your computer into a powerful show controller and also a handy backup solution. Furthermore both can be combined with the MA onPC command wing and MA onPC fader wing for parameter expansion. While the MA 8Port Node is available as a 19"/1HU version with all connectors located on the back, the MA 4Port Node is available in different fittings for adapting to multiple applications. First there is the basic version based on a 9" / 1HU housing, where all connectors are located on the back. Additionally an add-on fitting is available to mount this basic version into a 19" rack. Second a special fitting can be used where all connectors on the back of the MA 4Port Node are mirrored on an additional front panel for an easier access when rack-mounted. Third possibility is to combine two MA 4Port Node for rack use by adding rack mounting brackets and a special threaded fastener between the two single MA 4Port Node units. Fourth option is the additionally available rigging plate for mounting couplers or clamps on the MA 4Port Node.

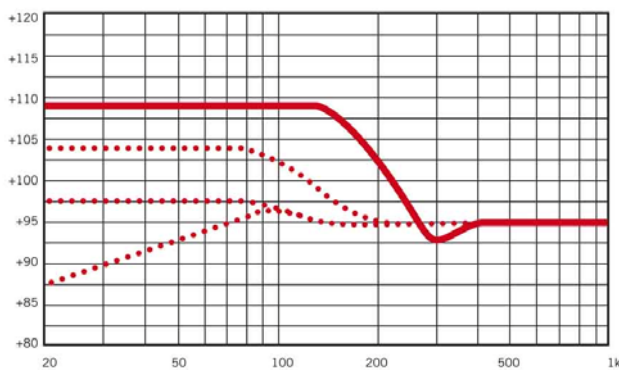
For more information visit www.malighting.com

beyerdynamic CUSTOM ONE PRO WHITE



The world's first interactive premium headphones are now also available in white: After presenting the black CUSTOM ONE PRO headphones, beyerdynamic, the audio specialist from Heilbronn, Germany, is introducing the brand-new CUSTOM ONE PRO WHITE. The cool, silver and white design is perfect for the latest smartphones and tablet PCs.

With flexible tuning, even the sound is interactive: The CUSTOM changes its sound characteristics from a clear analytical sound to booming colorful beats and back immediately.



4 preset sound patterns with up to 20 dB bass boost

Headphone design has never been so creative



The style doesn't have to be permanent: The style kits change the look of your CUSTOM headphones in a few easy motions. With a growing selection of accessories: rings, covers and cushions on the ear pads are interchangeable, as is the cushioned headband. You can customize the headphones online @ www.beyerdynamic.com/custom

And the new CUSTOM Headset Gear with a plug-in microphone turns the premium headphones into a premium headset. The CUSTOM ONE PRO always ensures optimal performance – for listening to music, gaming, Skype or recording tracks for your own audio podcast.

CUSTOM Sound Sliders: Easy-to-use sound tuning

The CUSTOM Sound Sliders is your tool for maximum listening customization: Flexible bass reflex vents on the ear cups change the sound characteristics in four stages. When the vents are closed, they keep the transducer membranes under strict control, which produces a streamlined, analytical sound. However, with every notch on the slider, the headphones add another layer of bass. The end user until can literally feel the air being pumped out of the headphones by the transducers.

For more information visit www.beyerdynamic.com

D.A.S. Audio Aero 50 Rack & V5.5 Presets



Over the past few years D.A.S. Audio Aero 50 systems have been handled by hundreds of national and international sound engineers in festivals around the world. After listening to their feedback and combining this with listening tests and a battery of measurements to determine the real effects on the Aero 50s, D.A.S. Audio has updated the presets for the control and digital processing of the Aero 50 systems.

Along with the presets D.A.S. Audio has launched the new A50 rack for aero 50 line array systems. This rack includes amplifiers, digital signal processors, power distro and input and output patch panels. Two different configurations are available: the first features three D.A.S. Audio D-100 Class D four channel amplifiers as well as a D.A.S. DSP 2060A digital signal processor. The second is available with six Powersoft K-6DSP AESOP Class D switching power supply amplifiers that incorporate their own digital signal processor.

The major technical features of the new presets include

- Modification of the systems HPF cut to 80 Hz, the same as the LX-218 subwoofers.
- Modification of the cross-over slope between the 15" and 8", offering higher definition for the mid-bass zones while also protecting the 8".
- Increase in the 8" HPF cut to 200 Hz, which provides higher definition and component protection.
- New EQ for the compression drivers, optimizing energy to further reduce distortion and control protection limiters.
- New approach for adjusting the array as a whole. The previous presets included an HF boost in its curve that acoustically compensated the summing of mids and bass when more units were added. Now, the preset leaves the response flat for a single cabinet, correcting the system response by way of a low shelving starting at 3 kHz usable with six (minimum recommended) or more cabinets per side .
- The new Aero 50 V5.5 presets are completely compatible with the three main platforms: D.A.S. DSP-2060A / 4080, Powersoft K-6 and Lake LM26 /PLM.

Download Aero 50 parameters @

http://extranet.dasaudio.com/ficheros_s/w/documentos/Technical/DSP_parameter_s/PDSP_AERO50_V5.5.zip

Download Aero 50 rack manual @

http://extranet.dasaudio.com/ficheros_s/w/documentos/Technical/manuals/AERO/A50RACK/A50rack_EN.pdf

For more information visit www.dasaudio.com

FBT Installed Sound - Archon Series



The FBT Archon series lines up three 2-way full range/bi-amp models and three 2-way full range compact models; in addition, two low-profile subwoofers (2 x 8" and 2 x 15") increase the low frequency extension of the desired systems. All Archon speakers are elegantly designed and crafted to meet the most demanding architectural design.



The FBT Archon series has been engineered to fulfill the need of high quality sound in bars, pubs, restaurants, retail shops, clubs, entertainment venues, fitness centres, conference rooms, theatres, educational institutions, houses of worship, museums, exhibition centers, cruise ships, corporate A/V, granting excellent speech intelligibility, wide and precise band coverage, ease of installation thanks to the flexible mounting hardware.

The Archon features are:

- Stylish architectural cabinet design.
- Acoustically transparent steel grilles with protection cloth.
- High SPL, fast responding dynamics, excellent intelligibility, wide band, extremely low distortion
- Baltic birch plywood cabinets available in black or white extra texture paint
- Choice of different RAL paint colours
- Choice of different paint finish: glossy, matt, textured and more
- Custom designed low frequency woofers, made in Italy
- Custom designed high frequency compression drivers, made in Italy
- Rotatable horns for optimal horizontal or vertical sound dispersion angle
- Selectable bi-amp/full range crossover network
- Full suspension possibilities through multiple M10 / M5 threaded rigging points and a wide range of mounting hardware
- Possibility to install line transformers for 100V/70V applications
- Possibility to order weatherproof versions for outdoor use
- Possibility to extend low frequencies performance through dedicated and compact subwoofers (Archon 208S, Archon 215S)

For more information visit www.fbt.it

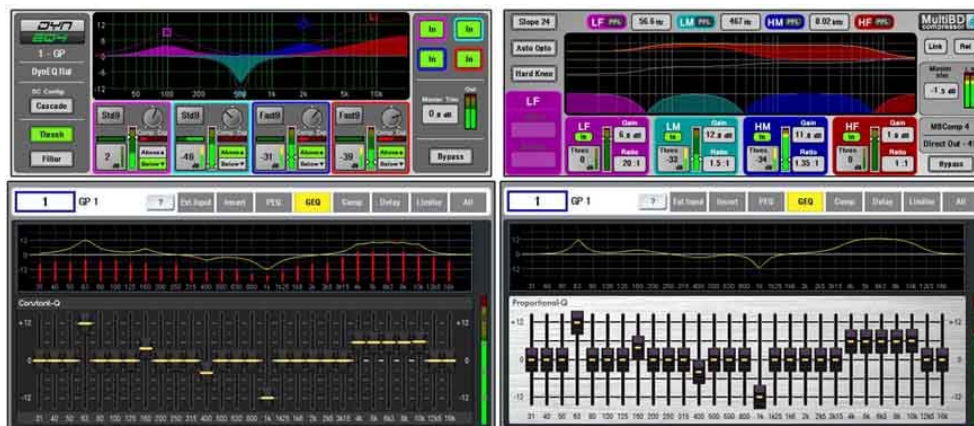
Epson EB-W16 3LCD Projector



The Epson EB-W16 delivers visibly brighter colour content than an equivalent single chip DLP projector, thanks to Epson's 3LCD technology. Combined with superb colour reproduction, the Epson EB-W16 delivers bright, easy-on-the-eye, high-quality 3D images, while a 5,000:1 contrast ratio provides superb detail for outstanding quality. With a pair of lightweight, rechargeable Radio Frequency (RF) active shutter 3D glasses², users can view their content without interference. Supporting all HDMI compatible 3D signal formats, the Epson EB-W16 displays side-by-side, top-and-bottom, and frame packed content, providing users with the ability to project the widest range of 3D content available.

For more information visit www.epson.com.sg

Allen & Heath V1.9 Firmware for iLive



The V1.9 version of its iLive firmware features a range of enhancements including new GEQ, Dynamic EQ and Multi-Band compressor emulations, increased MIDI control options, and improvements to the functionality in the supporting iLive Editor software and MixPad app. All 32 mix outputs now benefit from extra Graphic EQ Low Frequency bands and a choice of four GEQ emulations with accurate modeling algorithms: classic 1/3rd octave Constant-Q, industry standard Proportional-Q, Digi-Q for minimal band interaction, and a new asymmetric Hybrid - plus display of the resulting frequency response and a superimposed RTA view. All four models are available at a touch of a button and can be audibly and visually auditioned in real time.

V1.9 is available to download from www.allen-heath.com

NEC UM Series Projector



All UM Series models – UM330W, UM330X, UM280W and UM280X – come equipped with Automatic Power On, and take only 3 seconds to be ready for projection. The Quick Power Off and Direct Power Off functions are equally useful, allowing you to store the projector away immediately after use. Other innovations include a USB function that connects projector and PC with just one single USB cable, and wireless applications that gives you a free hand to send images to the projector from hand-held devices such as tablets, iPads, iPhones and even iPods. A new and interesting option is the interactive eBeam, a plug-in module that allows for easy annotation and comes with plenty of teaching tools.

For more information visit www.necdisplay.com

Novation MiniNova



Novation has announced MiniNova, an amazingly powerful but compact synthesizer that packs never-seen-before features, including push-button Animate controls and Novation's brand new voice effect: VocalTune™. Key Features: 37-note mini-keys synth with custom-designed Novation keybed; Extremely powerful sound and effects engines from Novation's flagship UltraNova synth; New VocalTune feature with feature-packed vocoder and included gooseneck mic; Arpeggiator with real-time rhythm performance editing; Animate function lets you warp your sounds while you play; 256 amazing factory patches included, with space for a further 128 user patches.

For more information visit www.novationmusic.com

PR Lighting XLED 1037



PR Lighting has added the new, super-bright XLED 1037 to its popular XLED moving head portfolio. Characterised by the use of 37 x 10 Watt RGBW LEDs (containing four colours in one), another outstanding feature is its wide linear zoom, with beam angle ranging from 12° to 54°. Additional features include a linear CTO from 3200K to 10000K, linear colour mixing with macro function, 0-100% linearly adjustable dimmer and an electronic strobe (0 to 25fps). In terms of movement, the XLED 1037 offers speed adjustable pan and tilt (with pan angle of 0°-540° and tilt of 0°-270°) with auto position correction function. There are various control options, since the XLED 1037 is Wireless DMX compatible and also supports the DMX RDM bi-directional communications protocol.

For more information visit www.pr-lighting.com

Symetrix SymNet xIn 12 xOut 12

Symetrix announces today the release of the cost-effective SymNet xIn 12 and xOut 12. These products increase a system's analog input or output channel capacity resulting in a reduction in overall price per channel. Designed exclusively for use with SymNet Edge and Radius DSP units, each of the twelve studio-grade analog inputs' and each of the twelve studio-grade outputs, along with bus assignments, are configured using SymNet Composer open architecture software. The xIn 12 and xOut 12 set-up is logical and fast with no requirement to use third party software. There are no mechanical switches or circuit board jumpers to set. Systems are simpler, cost less, and have fewer potential points of failure.



For more information visit www.symetrix.co

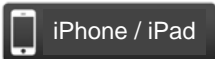
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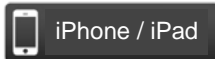
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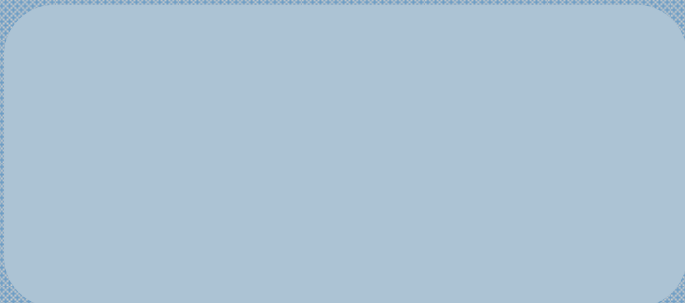
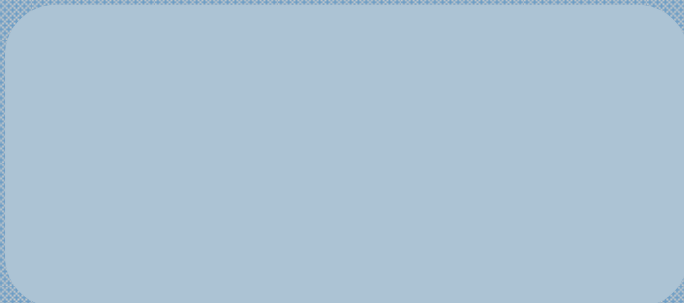
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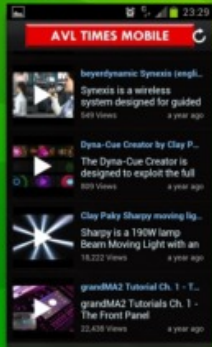
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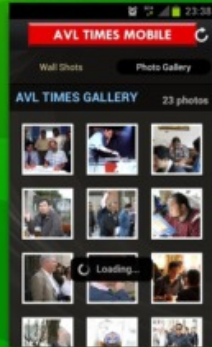
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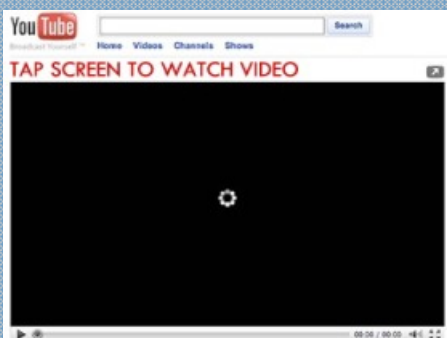
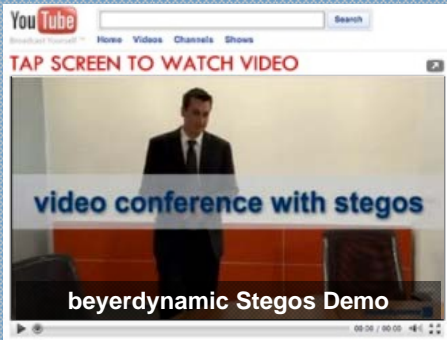
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