

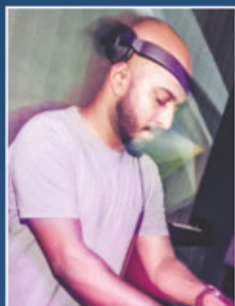
# PALM<sup>TM</sup> technology

SOUND & STAGE • LIGHTING • INSTALL SOUND • MUSIC PRODUCTION • DJ TECHNOLOGY

EXPO PUBLICATION



**Trending Tech -**  
DJ's Scratching  
on Favourites



**Product Focus:**

**Festival Pros:** Line-up of tour grade amplifiers

**The DJ Platter:** Line-up of DJ Turntables

**Big Stage Events:**

Global Citizen Festival India; EDC

**A Note from the Editor:**

Indian stage tech leaders' collaboration  
produces world class Coldplay act



*Integration for Entertainment*  
The latest hotspot - PLAYBOY, Mumbai

## 11 Questions



**Fuat Koro**, Director of Global Sales  
& Marketing, Bose Professional

**BIG STAGE DJ ISSUE**



# serato X Roland

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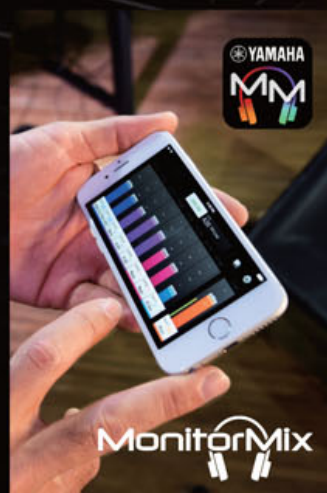
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## Indian stage tech leaders' collaboration produces world class Coldplay act

Big stage DJ issue is rocking with recent acts such as Coldplay and EDC, we cover both events on the tech side profiling best of class live stage design, gear, installation, and am glad to point out, real cooperation and joining of forces and putting productive minds to give Indian stage scene a good name globally. Am more than confident that the success of these mega events is going to drive others here which means impetus to investment. The good part is that having delivered a big one, the experience factor will drive investment driven the gaps felt and defined. Roger Drego the pioneer of live big stage sound in India, Manish Mavani of Sni Pro, Santana of J Davis, Navneet of Audio Design and Porus from Effects Tech, did India proud. Kudos.



**Rorger Drego with the Electrocraft and SNL Pro teams who worked together as a cohesive unit to deliver a spectacular audio treat**

get seen and heard, and talent sourcing at PALM DJ Championship. Am proud how well the championship actually works. We hunted down some past winners to know and it's all praise. At the risk of sounding immodest our commitment, consistency, and persistence has indeed contributed to the DJ world with a most respected DJ Championship that drags out new talent each year.

Big stage DJ issue rocks with the Product Specialist. This species is many a times a DJ who is obsessed about the product he uses and understands more and shares his knowledge with others. Meet three of them on [page 46](#).

Big stage DJ issue rocks with PALM Technology being invited to the Playboy DJ club open in Mumbai, [page 20](#), screaming with lights and more lights and even more lights, with a MA Lighting grandma lighting console. Milind Raorane's design and accoustics and sound specified for DJ action does this place proud. Australian brand Sonicsss' Dave Ward has struck lightning with probably the biggest install in a long time.

A macro view of pro audio is for the asking in the year end issue. Samsung's Harman acquisition created a buzz and 2017 will witness the impact if any. I personally believe Samsung's breathless innovation, depth of digital communication tech, manufacturing strength will work for Harman like never before. Korean engineering and global sales drive will impact pro audio industry worldwide.

With demonetised cash-in-the-bank and easier resources I expect far greater business for international brands in 2017. Brand play on stage encompasses events at all level, even tier 3 cities. Pro Audio industry is estimated at US\$ 350 million in 2017. Growth is registered at a CAGR of 18%. The expanse and breath of the market is supporting new brands as well. Good distribution and product support with service guarantees your brand good sales in India. 2017 is the year to play the Indian market full swing for international brands, which includes upmarket Chinese brands.

FOH is the theme of 2017 first issue, as big stage live events grow and major acts perform, all ears are tuned to the FOH engineer who can deliver as much as he has on stage and vice versa. PALM Technology will review the scene.

The January issue will also list the eagerly awaited TOP 50 products of 2016. We compile the product for tech innovation and business sense each year. Ensure you remain subscribed not to miss out on your future.

Cheers!

Anil Shiv Raj Chopra - Editor



**PALM's long journey with DJ Championship started in 2011, in a moment of epiphany on a chance meeting of the Editor with Championship Director, Reji at Zeni in Bandra**



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Leading music festival - Electric Daisy Carnival (EDC) made its debut in India in November. Event production and technical reinforcement was completed by SNL Pro

**“** One cannot model oneself by looking into someone else's success story. It's all connected to finding one's USP, where one needs to reach, and who they need to work with and lastly what would be the right steps to go ahead and take it from one point to another. **”**

**58** DJ Reji - Director, PALM DJ Championship



Latest hotspot - Playboy Mumbai; the biggest lighting install in Mumbai in a long time

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// We see that our customers are really seeking value. If we can provide a performance level that is commensurate with price, our customers are very receptive to that. //

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Fuat Koro - Director of Global Sales & Marketing, Bose Professional





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## REYNOLD'S INC. AND SUN INFONET HOST A&H WORKSHOP

Sun Infonet along with Hyderabad-based Reynold Inc. conducted a one-day workshop in September, which focused on Allen & Heath's dLive digital mixer and covered complete

of the console using dante network card. The workshop, which was held at Hotel Katrina & Towers in Hyderabad, was open for sound professionals, sound engineers and rental companies.

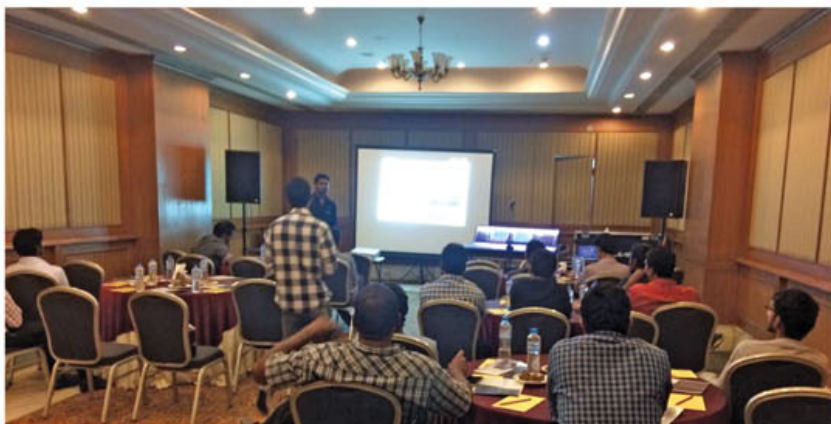
more about dLive."

Reynold Inc. Hyderabad has been selling pro audio equipment to sound professionals and corporates since 2010, and it regularly conducts workshops in partnership with Sun Infonet.

Mr. Nandan, Branch Manager, Reynold's Inc. commented, "By conducting such workshops, participants keep themselves updated with the latest features of Allen & Heath mixers and also gain hands-on knowledge and experience".

Riding on the success of the workshop, Sun Infonet and Reynold Inc. will

conduct similar events more frequently in the coming future, ensuring that industry professionals are continuously updated on new technologies and innovations.



Rohit Reddy, Product Manager at Sun Infonet led the A&H Workshop in Hyderabad

training on the desk's installation, operations and troubleshooting.

The dLive S7000 was demonstrated along with DM64 Rack to show the advanced features and network ability

Rohit Reddy, Product Manager at Sun Infonet, led the sessions at the workshop. He said, "I was surprised to see the interest shown by participants as they wanted to know more and

## ATC ANNOUNCES AVAILABILITY OF P2 PRO

ATC announced the upcoming availability of the P2 PRO Dual Mono Power Amplifier - a dual mono design delivering 300W of continuous power simultaneously from both channels to drive the most challenging loudspeaker loads with wide bandwidth and ultra-low distortion.

Hand-built by ATC in the UK, The Class A/B P2 PRO Dual Mono

available from the other.

Within a new low-vibration 19-inch rack-mount chassis design featuring a precision machined 12.7mm brushed aluminium front panel, the P2 PRO Dual Mono Power Amplifier's layout includes a massive, custom-made 400 VA low-noise transformer for each channel and an output stage involving three pairs of MOSFET

of mechanical hum/buzz along with convention cooling are vital features if the amplifiers are to be used in control rooms designed with lowest possible levels of background noise."

Gain matches that of the P2 PRO Dual Mono Power Amplifier's lower power P1 PRO Dual Mono Power Amplifier sibling so that they can be used together in passive bi-amp or tri-amp systems connected via 'Link' phono inputs/outputs.



P2 Pro Dual Mono Power Amplifier

Power Amplifier is a dual mono design, keeping the power supplies, signal, and return paths discrete. This approach ensures that the amplifier will achieve maximum signal separation with minimal crosstalk and that intermodulation between channels via the power supplies is reduced to an absolute minimum across a frequency range of 400kHz. It also means that the power delivery from one channel cannot affect the specified power

devices per channel to achieve peak current output of over 15 amps.

ATC Technical Sales Manager, Ben Lilly said, "The final design of these transformers is the result of seven design iterations with the goal of achieving best possible audio performance and lowest possible mechanical noise. This was achieved by using a very high-grade steel core which is then vacuum-impregnated with high-temperature resin, post-winding. The exceptionally low levels

## QSC - A GLOBAL PRESENCE ALLIANCE (GPA) ACCREDITED VENDOR

QSC, LLC has announced that it is now a Global Presence Alliance (GPA) accredited vendor. The GPA was formed to help customers have one global source for all audio, video and unified communications solutions and is committed to deliver consistent, standardized services worldwide.

Joe Pham, CEO, QSC said, "We understand that our end user customers are looking to integrate global standards-based technology throughout their enterprise. However, with this desire comes unique need in different regions. This partnership expands QSC's global reach and provides our customers with the increased level of local support, design expertise and consistent user experience they are accustomed to. We look forward to serving our global clients and becoming an even more strategic partner."

Byron Tarry, Board President, GPA said, "QSC is a tremendous example of a traditional AV manufacturer making the transition into the converged digital reality of our market today. They are exhibiting great leadership and innovation; and have shown great alignment to the GPA's goal and delivery model. We're excited to add them to the growing list of market-leading technology vendors that are committed to a better and a more efficient model for global delivery through the GPA."

## ARENA GROUP ACQUIRES RIM SCAFFOLDING

Arena Group has acquired the event equipment, management and operational teams of Leeds-based Rim Scaffolding. As a result of the acquisition, Arena Group will extend its global event infrastructure and

carpentry services.

The acquired business is now known as Arena RIM Scaffolding and while developing new opportunities, it will continue to manage relationship with the existing clients and enjoy

the benefits of a more rapid growth with financial as well as operational backing as part of the Arena



offer to a wealth of sporting and live event clients. It has added significant amounts of scaffold systems, glass handrails, viewing decks, sub platforms for temporary structures and ice rinks, camera platforms and

Group. The clients of the existing Arena Group will benefit from the key investments into equipment and resources with a full turnkey offering value for money and a shared ethos for delivering projects to the highest of standards.



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## FREQUENCY PROFESSIONALS PURCHASES TW AUDIO'S VERA36; ORGANIZE DEMO

Pune-based rental company, Frequency Professionals Services has purchased TW Audio's VERA36 system after the company had been introduced to the product range by TW Audio India's Managing Director - Krishna Pratap Singh at the PALM Expo Mumbai 2016 trade show. The new system will cater

to Frequency Professionals Services' mid-range to large events requirements and was supplied by the manufacturer's Indian distributor, Acoustic Arts.

Vaibhav Shinde and Nitish Desai, Managing partners, Frequency Professional Services made a purchase of 12 Vera36 units with eight B30 and

four BSX subwoofers. To amplify the system, the company also invested in six K3D5P and six K10D5P amplifiers from Powersoft as well as AFMG's EASE Focus 3 and Rational Acoustics' SMAART software.

Vaibhav Shinde and Nitish Desai decided to celebrate their purchase with a demo in August.

Krishna Singh said, "Frequency Professional Services have done a very good job organizing this demo day at very short notice. It was the perfect setting for the VERA36 system."

Siddharth Chhibber, Managing Director, Acoustic Arts said: "FPS has invited a lot of customers and the response was incredible. The interest in the system left the company with immediate bookings of the VERA36 for the season."

"It was clear that the VERA36 system is the right choice for our purposes. And we are already looking into investing in more TW AUDIO products. We are convinced by the sound, the performance and the easy handling of the systems," said Vaibhav Shinde and Nitish Desai.



The Frequency Professionals team at the demo organised by the company. From l to r: Ninad Naik, Assistant Engineer; Nitish Desai, Managing Partner; Vaibhav Shinde, Managing Partner; Kalpesh Tawde, Chief Engineer

## JBL CELEBRATES 70 YEARS

Harman International, the leading connected technologies company for automotive, consumer, entertainment and enterprise markets, celebrated 70 years of its renowned audio brand, JBL and introduced limited edition commemorative **Platinum JBL Everest Elite 700 headphones** to mark its platinum anniversary.

JBL's GRAMMY and Oscar-winning audio technology has been behind pivotal moments in music that includes revolutionary recordings, legendary concerts like Woodstock and record-breaking rock tours. For the last seven decades, it has delivered one of the industry-leading audio in entertainment venues, in the home and in the car. JBL audio systems are used in thousands of the world's most notable performing art venues, stadiums, arenas, recording studios and THX-certified movie theatres.

### JBL History

Founded in 1946, JBL was has consistently contributed to the evolution of audio reproduction in professional, home, automotive, multimedia applications and now connected technologies.

JBL in the 1950's had become a major contributor with the introduction of legendary products such as the Hartsfield and the Paragon. In the 1960s, JBL continued to create a series of remarkable loudspeaker designs including the renowned 4310 Studio Monitor which was adapted for consumer use as the

famous Century L100 in the 1970s.

Throughout the 1980s and 1990s, the company also witnessed the emergence of acclaimed models such as the L212 designed with one of the first satellite/powered subwoofer designs, the Everest and the JBL Synthesis- the ultimate-performance complete home theatre audio systems.

JBL loudspeaker designs continued to embody the company's heritage of excellence in early 2000's with high-performance models such as the K2 S9800 and Project Array loudspeakers. Additionally, recording studios, concert halls and movie theaters around the world were outfitted with JBL loudspeakers. JBL's "Pro Sound Comes Home" design philosophy also offered consumers the same clear, accurate and dynamic sound heard by professionals at home.

In 2010s, JBL continued to grow its consumer line by launching new headphone and portable speaker technologies that provided connected and personalized experience such as the JBL Everest Elite 700 with sound calibration and active noise cancellation. JBL further permeated culture by becoming official sound for the NBA. With innovations such as the JBL Trip in-vehicle portable communication and entertainment system, the Under Armour Headphones Wireless Heart Rate, engineered by JBL, and the JBL Charge 3 waterproof portable Bluetooth speaker, JBL unites lifestyle

(Continued on page 14)



## dLIVE TAKES CENTRE STAGE AT BACARDI NH7 WEEKENDER

Allen & Heath's digital mixing system was employed on the main stage of the Bacardi NH7 Weekender which was recently held at RBD SA Sports Complex in Shillong, India. The annual multi-city festival is one of the largest music festivals in India which hosts

based distributor, Sun Infonet.

Madhur Hastikar who served as the band mix engineer during the set of Farhan Akhtar's act said, "This was my first experience using dLive and there are several features about the board which really stand out. Firstly, the headroom is simply



SNLPro deploys the S7000 and DM64 at the event

emerging local artists along with major international acts.

Since the inception of the event, PA company, Sound & Light Professionals has managed the sound reinforcement for the main stage. To meet the technically diverse demands for monitoring on stage, the company deployed its recently purchased dLive S7000 Surface and DM64 MixRack supplied by Allen & Heath's Delhi-

remarkable and also the dual Touchscreens make the GUI very intuitive to the average user. The rotary controls feel very responsive similar to that of an analogue desk which makes dialling parameters or gain a lot smoother."

Manish Mavani, Owner, Sound & Light Professionals concluded, "With dLive, my team was confident it would be able to cover each section of the stage."



## BOSE DEMOS SHOWMATCH IN MUMBAI

Bose Professional which began global demonstration events of its new **ShowMatch DeltaQ Array** in September, hosted its first demo in India in Mumbai on 21st October 2016 at the Hotel Holiday Inn, Andheri.

Fuat Koro, Director, Global Sales and Marketing at Bose Professional, set the scene by calling ShowMatch DeltaQ "a category defining product line".

A senior engineer from Bose took to the stage to provide comprehensive overview of the versatility and flexibility of the array. "Each module features field changeable waveguides which provide the flexibility to create 8 unique horizontal and vertical coverage patterns for the creation of DeltaQ arrays. ShowMatch has the flexibility to be configured as a J array or as a Constant Curvature array or as a Delta Q array. No other product offers the flexibility of all three array configurations from one product type," he said.

The basic demo system set-up on stage consisted of two arrays of ShowMatch DeltaQ on each side of the stage. Besides vocal performances, a track featuring both male and female vocal and accompanied by percussion,

bass, keys were played using the main arrays only. This allowed listeners to experience the full range of performance of just the arrays. Later there was another demo wherein an EDM track was played using arrays and subs to fully demonstrate the transient response and output of the ShowMatch system.

Later on, a five-member all-male band took to the stage to perform. Guests were then invited to walk around the demonstration area, to get the feel of the system from every corner of the room while ace FOH - Sameer Kriplani took to the console.

The product which is aimed at both the installation and rental markets, attracted a lot of interest and many big names from the Indian pro audio industry such as Roger Drego, Sunny Sarid, Milind Roarane, Dinesh Mandot, Davinder Wadhwa and Arun Kalra were seen absorbing the demo in Mumbai.

The range will be rolled out globally in November, which is also the planned release date for the latest version (6.9) of Bose's Modeler software. In India the product will be available in December. For more information on the product, turn to "11 Questions with Fuat Koro" - pg. 71.



Bose Professional's ShowMatch DeltaQ Array demo at the Hotel Holiday Inn, Andheri, Mumbai. The product which is aimed at both the installation and rental markets will be available in India in December.

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## HARDIA SOUND EXPANDS WITH JBL VTX SERIES AND CROWN I-TECH AMPLIFIERS

Hardia Sound, Indore has acquired a total of 18 units of the JBL VTX V25 full-size line array elements, 18 S28 subwoofers and a total of 16 units of the Crown I-Tech 12000HD series amplifiers to power the loudspeakers and subs. The entire system was purchased from Mumbai based Dev Electronics, a comprehensive technical solutions provider and one of the leading distributors of Harman Professional audio products in the country.

The JBL VTX V25 is a true 3-way system design featuring JBL's proprietary D2 Dual Diaphragm Dual Voice Coil compression driver, which delivers dramatically increased high-frequency sound pressure levels and power handling with greatly reduced distortion. The V25 employs two 2267H 15-inch Differential Drive woofers, four 2169H 8-inch ultra-linear midrange transducers and three 2430K D2 dual drivers. Its Radiation Boundary Integrator (RBI) waveguide provides a more seamless transition between the high-frequency and midrange drivers and its S.A.F.E. suspension system provides improved hardware that enables faster and more secure

rigging.

Mahesh Hardia, Director, Hardia Sound talks about the key factors that influenced the company's purchase of the JBL VTX rig and said, "Without a doubt, the VTX system is super powerful, super-efficient, super reliable and super easy to use and work with; and when combined with the awesomeness of the V5 presets and the industry leading Crown I-Tech HD amplification, the system becomes extraordinary without a doubt. We were impressed with the performance and delivery of the system the moment we heard it, and there was no doubt about us purchasing the system thereon."

Hardia Sound has been involved in gigs in Indore and surrounding areas, with event and concert organizers, corporates and luxury hotels seeking the company's expertise in sorting the audio delivery for their respective events. With the recent expansion in the gig scene in India over the recent times, Hardia Sound has further reinforced their commitment in

providing clients with efficient live sound by adding Harman's JBL VTX Series line array system and Crown I-Tech HD Series amplifiers to their inventory.

"From experience, we always knew how crucial it was to purchase the rig from a source that was trustworthy, reliable and customer friendly especially from the sales, engineering and technical support and service point of view. And there was absolutely no doubt that we would be doing business only with Dev Electronics owing to their stellar reputation in the market for delivering quality solutions and backing it up with great



The JBL VTX featuring JBL's proprietary D2 Dual Diaphragm



Mahesh Hardia, Director - Hardia Sound, Indore

## MOVECAT INTRODUCES PLUSLITE 1000-4

The new PLUSlite 1000-4 launched by Movecat, satisfies the wish of many users for a single chain fall D8 Plus rigging hoist with a lifting capacity of 1000 kg at 4 m/min. The Movecat PLUSlite 1000-4 is based on the current DIN 56950-1: 2012-5 and meets the requirement of BG in full. The mechanism is designed for twice the nominal load and the load chain exhibits dynamic safety factors of 8:1 and 10:1 respectively.



With its compact aluminium housing, 9 x 27 load chain, two robust handles and total weight of 115 kg with a hoisting height of 18 m, it is suitable for day-to-day touring and rental applications. When used as a climbing hoist in combination with Movecat cases, the chain-hoist can climb

and retract independently drawing its power from the case.

It is supplied with hoisting capacities of 18 or 24 metres, a single hole suspension eyelet, two robust handles, a permanently installed textile chain bag, screwed cable glands with 360° anti-kink protection, DC versions with an H07RN-F connector cable with a black CEE 4-pin plug and RC versions with a black CEE 4-pin plug for power and a yellow CEE 4-pin plug for remote control.

The PLUSlite 1000-4 chain hoist is recommended for day-to-day rigging use when building up and dismantling stage, concert and studio sets in the touring business as well as in the theatrical, studio, multifunction hall and trade fair sectors.

sales and after-sales service and support. Needless to say that the experience we had in dealing with the entire team at Dev Electronics was absolutely fabulous. We are absolutely thrilled to have the new JBL VTX rig and we are confident that this move will do wonders for an enhanced scope of business in the days to come," Hardia added.

Dilip Devjani of Dev Electronics said, "Dev Electronics has always strived to deliver the best possible solutions customized to suit users' needs and we are absolutely elated to have been of service to Mahesh Hardia and his team at Hardia Sound Indore, in helping them successfully achieve their goal of acquiring their new JBL VTX system powered by Crown I-Tech HD amplification. Staying true to our eternal objective of delivering the best sales and after-sales experience to all our clients, we welcome Mahesh and his entire team at Hardia Sound into the Dev Electronics family of happy customers, and we look forward to serving them with their future technical solution requirements, just as we have for many of our other satisfied clientele across the country".

(Continued from page 12)  
design, meaningful new technology and seamless connectivity for a powerful acoustic experience.

JBL has delivered premium sound to Toyota vehicles for more than 20 years and has worked with Ferrari since 2008, providing these automakers

along with others- the efficient sound performance in the car.

"Today, as over the past seven decades, JBL is the leader in revolutionary sound and continues to push audio boundaries through innovative, connected and personalized sound technology," said

Michael Mauser, President, HARMAN Lifestyle Audio Division.

"Whether for consumers at home, in the car and on-the-go, or in large scale spaces like sports arenas and concert venues, JBL's signature sound offers unprecedented performance for authentic audio experiences," he added.



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## SHIVA SYSTEMS SHOWCASES VERSATILITY WITH THE D&B AUDIOTECHNIK V-SERIES

Live sound and lighting rental service provider, Mumbai-based Shiva System has expanded its audio system rental inventory with the purchase of d&b audiotechnik's V-Series speakers. Ansata, the official distribution partners for d&b Audiotechnik products in India, facilitated the sale.

The investment comprised of eight units of the V8, four units of the V12 line array elements along with six units of the B22 subwoofers that included accessory kits for transport, rigging and covering the speakers and four units of the D80 amplifiers to power the loudspeakers and subs.

The d&b Audiotechnik's V-Series is suitable for medium

to large scale sound reinforcement application. All the 3-way passive loudspeakers share the same dipolar driver arrangement while all the subwoofers exhibit d&b cardioid technology.



Shiva Systems and Ansata team at the Mud Rush Festival where the V-Series was deployed. From L to R: Mahesh Kambli (Ansata-Service Manager); Yatin Tawde (Ansata-Mumbai Branch Manager); Senthil Kumar (Shiva Systems-Partners); Sumit Aggarwal (Shiva Systems-Partners) and Neil Lean (Ansata-Live Sound Product Specialist)

Mr. Senthil Kumar M, director of Shiva Systems said, "The system is extraordinary in terms of its output to size ratio, the units are lightweight and compact which makes it super easy to transport and rig.

And despite the compact frame, the power, dispersion and coverage, is equivalent to speakers that are twice its size. Also, the arraycalc software makes tuning the system an absolute ease and ensures that the eventual output is absolutely perfect. So there was no doubt in my mind that we were going to purchase the d&b V-series. The icing on the cake was doing business

with Mr. Leslie Lean and his team at Ansata, as they lived up to their stellar reputation in the market for delivering quality solutions and backing it up with great sales and after-sales service and support. We're extremely happy to with our decision of choosing the d&b Audiotechnik V-series!"

Soon after acquiring the new V-series system, Shiva Systems put it to field as the main PA solution for the recently concluded Mud Rush Festival 2016 in Mumbai, where according to Senthil, the system delivered stellar performance.

Leslie Lean, Managing Director, Ansata commented, "We're proud to welcome Shiva Systems into the ever growing family of happy d&b Audiotechnik users in India. With the purchase of their new V-series system, we believe Mr. Senthil and his team at Shiva Systems have just upped the game for sound rental providers across the city of Mumbai."

## SAMSUNG ELECTRONICS ACQUIRES HARMAN

Samsung Electronics and Harman International Industries, Incorporated announced that they have entered into a definitive agreement under which Samsung will acquire Harman for \$112.00 per share in cash or total equity value of approximately \$8.0 billion.

The transaction will give Samsung a significant presence in the large and rapidly growing market for connected technologies, particularly automotive electronics which has been a strategic priority for Samsung; and is expected

to grow to more than \$100 billion by 2025. Harman is the market leader in connected car solutions with more than 30 million vehicles currently equipped with its connected car and audio systems including embedded infotainment, telematics, connected safety and security. Approximately 65% of Harman's \$7.0 billion of reported sales during the 12 months ended September 30, 2016 are automotive-related and its order backlog for this market at June 30, 2016 was

approximately \$24 billion.

Harman's experience in designing and integrating sophisticated in-vehicle technologies as well as its long-term relationships with most of the world's largest automakers will create significant growth opportunities for the combined business by enabling it to leverage Samsung's expertise in connected mobility, semiconductors, user experience, displays and its global distribution channels. In



addition, the combination of Harman's brands and audio capabilities and Samsung's expertise in consumer electronics will deliver enhanced customer benefits and elevate user experiences across Samsung's complete portfolio of consumer and professional products and systems.

Oh-Hyun Kwon, Vice Chairman and  
(Continued on page 72)

## DJ GAURAV MALVAI AND SUNNY KALRA ADD MA LIGHTING DOT2 CONSOLES

Modern Stage Service has advanced the usability and ease of MA Lighting dot2 console and has recently supplied MA Lighting to two renowned Lighting Rental companies, headed by DJ Gaurav Malvai and Sunny Kalra. Gaurav Malvai, a renowned DJ and is present at all the "Big Fat Indian Wedding" in India and abroad. He runs

a successful light and sound rental company based in New Delhi which started about 15 years ago.

"I bought the Dot2 because of the ease it provides to programmers and I can actually run most of my shows

using the board. It's very user friendly and is a perfect solution for rental companies," said Gaurav Malvai.



Gaurav Malvai from Global Pro Audio Management (I) and Sunny Kalra

Sunny Kalra, a Delhi based light engineer commented, "MA dot2 XLF is the latest and most innovative console which is the major reason why we as a lighting rental company required something new, above the edge, different and innovative console. Its handy, saves lot of space, powerful and most importantly dependable because of the non-stop support from Sahil Wadhwa, owner of Modern Stage Service."



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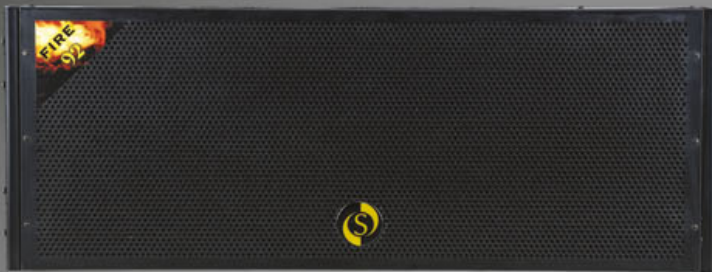
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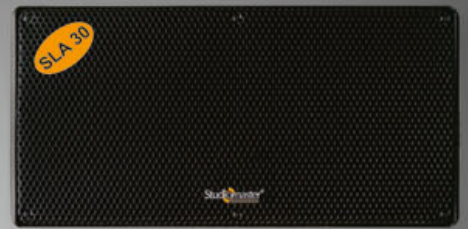


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## SONOTONE ANNOUNCES BIG SALES FOR PRINCIPALS DYNATECH

Sonotone - renowned distributor of audio & cinema equipment in India, representing top industry names such as P. Audio, Mackie, JTS Microphones & Dyna Group Taiwan reported that Dynatech had fostered heightened sales and has fast become a preferred choice by many rental companies in India. The company recently announced the purchase of Dynatech Systems by four prominent rental companies, which included, JK Sound and Saurashtra Pro Audio from Rajkot, Modern Radio & Electronic Service

extremely efficient in terms of logistics makes it an even bigger asset to us. Extremely happy with the purchase, and we're seriously thinking about adding some more whenever the need arises."

Saurashtra Sound, another rental company in Rajkot confirmed that the secret to their success in the rental services business in the local scene was courtesy their top notch inventory that comprises of a loudspeaker system that is powered by a comprehensive line of power

The Sound Control - a key dealer of Dynatech products in the region along with other brands like P. Audio, Mackie and JTS.

Mr Bhaskar of Modern Radio & Electronic Service said, "We are extremely pleased with our new Dynatech DVX212LA line array system and power amplifiers. The quality of sound and performance is absolutely fantastic and unbeatable and it is extremely easy to use and maintain. Absolute value for money. Absolutely love this system!"

Shoeb Khan of Royal Sound World said, "There's no doubt in my mind about the quality and performance of Dynatech products be it the DEL123LA, or the CX-15 or the V series amplifiers. The DEL-123 and the CX-15 are amazingly powerful yet deliver clean and crystal clear sound with great tonality, while the amplifiers deliver clean, impactful performance while being extremely efficient in every sense. Plus, the use of an all Dynatech system allows us to maintain a constant high



**Dynatech V Series powers Rajkot's JK Sound**

from Assam and Royal Sound World from Bhopal.

### **Dynatech V Series powers JK Sound and Saurashtra Pro Audio**

Rajkot based rental company, JK Sound have further added five units of V3000 power amplifiers from Dynatech's V-Series. This was in an addition to their existing inventory which already comprises of multiple units of the V Series amplifiers.

According to Kalpeshbhai of JK Sound the investment was made as a result of a sharp increase in the scale and magnitude of events that the rental company has been commissioning in the recent past.

He spoke about the purchase and gave his feedback on the Dynatech V Series power amplifiers and said, "We are known for delivering quality sound solutions and that's a reputation that we work hard to live up to every single day. The fact that we choose to invest money and faith into the Dynatech V Series V-3000 power amplifiers says everything about the quality of performance and dependability of these amplifiers. The amps are rock solid in its build quality and their performance is absolutely brilliant. Powerful and clean output is what makes them a star in terms of performance and the fact that it is

amplification from the Dynatech V-Series products.

Speaking about the purchase Arjun Maher of Saurashtra Pro Audio said, "Saurashtra Pro Audio is synonymous with delivering quality live sound solutions and therefore we are extremely conscious about the gear we use. The fact that we choose to invest money and faith into the Dynatech V Series V-series power amplifiers says everything about the quality of performance and dependability of these amplifiers. The amps are amazing in its build quality and their performance is unmatched. The output is powerful and clean and they are extremely easy to port around which makes logistics so very efficient. It's a true value for money investment and we're extremely happy with our purchase."

### **Dynatech's DVX212LA is the premium choice for Modern Radio & Electronic Service**

Modern Radio & Electronic Service, Jorhat, Assam is recognized as the trusted source for quality sound reinforcement in the area and the Dynatech DVX212LA line array system, powered by the Dynatech V-5000 power amplifiers forms the heart of their pro audio inventory.

The purchase was made from



**Rajkot's Saurashtra Pro Audio relies on Dynatech V Series**

Atanu Mal of The Sound Control commented, "Dynatech products are known for their top quality performance, efficiency and reliability. We at The Sound Control are happy to be of service to the entire team at Modern Radio & Electronic Service and wish the entire team at Modern Radio & Electronic Service the very best for the future with their trusted Dynatech system."

### **Bhopal's Royal Sound World chooses an all Dynatech inventory**

Royal Sound World, an audio rental company in Bhopal, has confirmed that their success is due to the performance of their comprehensive audio system which comprises of a fine amalgam of products from Dynatech and the reputed rental company's loudspeaker setup hosting the state of the art line array system which includes the DEL123LA and multiple units of the subliminal CX-15 multi-purpose loudspeakers, while multiple units of the powerful and efficient V series power amplifiers form the formidable power source for the loudspeakers.



**Modern Radio & Electronic Service purchases Dynatech line array system - DEL 123LA**

quality sound signature that has now become synonymous with Royal Sound World!"



## STUDIOMASTER PROFESSIONAL'S RELEASES D.MIX 20 AND SLA 30

Studiomaster Professional's recently launched 20 input digital mixer, D.Mix 20 along with SLA 30 Line array as an addition to its ever expanding range of professional Line Array systems.

With supreme touch screen technology for the digital console, intuitive interface, powerful DSP design and effortless navigation functions, D.Mix 20 is ideal for real-world live mixing applications. Its user interface and compact design makes it exemplary for medium to large stage applications. D.Mix 20 caters to rental companies, House of Worship and freelance sound engineers to name a few. Due to its

considerably light weight and sleek design, it is also used for touring purposes. The mixer boasts of 16 mono input channels with assignable controls, 2 stereo channels along with a provision for +48V phantom power. The 8 outputs featured in this console can either be used as 4 aux sends and 4 subgroups or totally as 8 aux sends. The console also features 2 integrated DSP's, compressor/limiter,



**Studiometer Professional's D.Mix 20 digital mixer and SLA 30 Line Array**

noise gate, delay and a 100mm motor-driven fader, for optimized audio levels.

Also onboard is a dual high quality digital EFX processor with editable parameters as well as a Digital 4-band parametric

EQ per channel & 31-band graphic EQ on master. The 6 DCA groups provide uncompromising and total audio control to the user. The console also has the facility to store and recall user presents as well as copy paste the same. Also, the user can set passwords for their presets. The colour LCD touch screen ensures great precision with the operation while routing, navigating and setting up the console. With its splendid features, compact design and user-friendly interface, the D.Mix 20 is the an efficient Digital audio mixer for the serious, creative and innovative users.

Specifying the SLA 30, it is a premium quality Compact, 250W RMS, Active Line array system designed to deliver clean, legendary Studiometer Professional sound quality and reliability that professionals can depend on. The system boasts of a single 8" Low frequency driver & two 1.5" high frequency drivers. These high quality transducers coupled with a high quality H Class amplifier are housed in a factory designed and tuned, attractive, highly durable, abuse resistive black plastic

cabinet deliver incredibly smooth Low-midrange and finely-detailed high frequency response. The line array has an incredible SPL of 123dB and sensitivity of 96dB with a wide frequency response of 85Hz-19KHz. Each Studiometer Professional SLA 30 unit has a horizontal coverage angle of 100° and vertical coverage angle of 10°. The system also has a HF level attenuation switch to adjust the tonal balance to suit different system configurations.

The SLA 30 system's specially designed Constant Curvature waveguide offers unprecedented array coherence. An important aspect of a good line array system is the control over the splay angle. The variable splay angles in the SLA 30 ensure that the system can be configured into several formations like straight array, curved array, J- Array etc.

With its exceptional sound quality, powerful response and long throw, the SLA 30 is a product backed with reliable after-sales support and cost-effective pricing, and is set to cater to plethora of applications ranging from professional touring and install.

## MARTIN AUDIO DELIVERS SIGNIFICANT UPGRADE TO MLA SOFTWARE

Martin Audio has announced a significant upgrade to Display, the software brain of the MLA Series. Jason Baird, Research & Development Director, Martin Audio, describes it as, "the world's most accurate prediction and optimisation array software, bar none."

Display is the numerical optimisation process that eliminates

lengthy trial-and-error tuning sessions making the MLA Series system achieve the required audience coverage straight out of the box.

The upgradation is based on a highly accurate acoustic model of array behavior and gives a very precise prediction of the direct sound produced over the audience as well as areas where sound is to be minimised. Generating ready-to-use DSP filter configurations and comprehensive rigging information it includes mechanical load safety analysis.

The patented optimisation process evaluates thousands of potential array configurations against multiple target functions such as frequency response, flatness and sound leakage into non-audience areas. With the computer working behind the scenes, the engineer retains full artistic control over the system's balance or 'house curve'. Display simply replicates what the engineer hears at the mix position to the entire audience.



## CAMCO ACQUIRED BY L-GROUP

L-Acoustics' holding company, L-Group, has announced the acquisition of Camco.

Camco is the manufacturer of high-end amplified controllers, DSP and audio network solutions for the professional audio industry. Based in Wenden, Germany,

the industry's leading professional sound system manufacturers.

Hervé Guillaume, Managing Director, L-Group said, "For over a decade, Camco has been a key supply partner of L-Acoustics. Their expertise in electronics for the professional sound industry has contributed to the success of the L-Acoustics amplified controllers."

"Welcoming them into the L-Group family of companies will allow both L-Acoustics and Camco to continue growing our research and development expertise. This merger will give us the tools to develop future products to better serve our clients and explore new markets," he added.

Camco will maintain its full team and headquarters in Germany and continue to manufacture its signature i-series, Vortex, D-Power and Q-Power amplified controllers while also developing OEM solutions for L-Acoustics and other manufacturers. Camco will keep its brand name and will become a sister company of L-Acoustics.



**From l to r: Hervé Guillaume, Managing Director at L-Group; Reiner Sassmann, managing director at CAMCO; Joachim Stoecker, Managing Director at CAMCO; Christian Heil, founder and president at L-Group**

Camco counts 50 employees and distributes its products in 60 countries around the globe and also supplies components to





# GOING BIG WITH

## *SuperClub indication of evolving markets for pro-audio and lighting*

The Playboy Club founded by media baron Hugh Hefner, first opened its doors in the 1960s in downtown Chicago and instantly became successful as a popular nightlife destination, albeit for reasons other than sound and light. It took the 'Rabbit' more than five decades to traverse to India's financial capital, but when PB Lifestyle, the company in India with rights to the brand, finally opened its first Playboy club in Mumbai, it became an instant hit, as much for the sound and lighting at the venue, as for the magnitude of the venue and the entertainment value it offers.

A huge PLAYBOY signboard and several bouncers (right from the driveway to dance-floor inside) welcome guests

to the imminent grandeur that awaits inside, while a huge acoustic door which opens up to the dance floor gives patrons a sense of arrival. The Club, sprawling on 8,000 sq.ft. prime land in the Birla Centurion compound (erstwhile Century Mills) in Worli, Mumbai, is designed as the club's flagship property, replete with an avant-garde elite VIP members only lounge, a happening dance floor, a huge smoking lounge, with 25-ft long bars in each of these three sections and state-of-the-art sound and light technology on par with clubs across the globe.

The first Playboy Club opened in Hyderabad in 2014, but the Mumbai Club which launched this November, is the first SuperClub from the Playboy stable and matches the clubbing experience

at Playboy venues in maybe, Las Vegas or Ibiza.

According to Gaurav Bakaya, Director, FB at Playboy, the promoters of the club wanted to build India's first super luxury night club. "In India people generally relate luxury to the beauty and ambience of the place, but a night club is all about energy and this is where sound and light plays a huge role. My biggest challenge was to amalgamate both these characteristics to accomplish a great looking venue. Even our smoking room is one of the biggest. Most night clubs have these tiny spaces, but it was my idea to build a super luxury smoking space where people can actually go for a smoke and not get choked by the air. Fortunately we managed to achieve this with the help

of the right people, who we hired for the consultant panel."

Mumbai based Electroacoustic consultant **Milind Raorane** was sought out by the promoters to implement the sound at the venue.

### The Sound Element

Talking about his role in the project Milind says, "My first and primary role was that of an acoustic consultant, and at the fag end I got into the sound system design also. The PMC architect for the project had proposed my name to do the acoustics and **Arun Kalra** from White Eagle Entertainment was already on board as an equipment supplier and he recommended me for the sound



*With the audio and lighting market in India exploding, and this being the Big Stage DJ issue, PALM Technology decided to explore the latest "Big Nightclub DJ Stage" in tinsel town – The Playboy Club Stage. A massive investment by PB Lifestyle promoters – Parag Sanghvi and Naitik Goyal has brought back the limelight to Mumbai. The Playboy stage is a classic example of just how big a DJ driven club can get. The superclub has given a major impetus to new brands trying to get a foothold in the Indian market. Gaurav Bakaya - Director F&B at Playboy Lifestyle India and the driving force behind the success of the venue, along with Milind Raorane- Acoustic and Sound Systems Consultant for Playboy Mumbai gave the PALM Technology team a tour of the club. Smita Rai reports.*

too that were taking the sound up. Even on the outside of the venue, there was a huge space between the outer glass façade and the inner wall through which the noise could filter out. I implemented a lot of corrective methods like sealing up the gaps, closing or blocking all the loose openings and improvising on all the glass joints to stop the sound from going out into the structure and into the adjacent lobby of the office premises. All the air-conditioners were housed up in the ceiling and all the ducts going in and out were sealed properly."

According to Milind, one major concern was correcting the sound inside, due to the scale and size of the venue which is about 100 ft. long, 50 ft. wide, and around 35-40 ft. tall. And since the venue has a complete glass façade on the outside, reflections had to be taken care of.

"No special claddings have been done on the inside. It is the surfaces that have been taken care of, so that we don't have reflections and the interior design of the venue is such that it covered up the glass automatically and acted like an absorber. So I didn't have to do any unique arrangements as such, other than the

sound traps on the ceiling." The ceiling of the venue contains 50 number of 4ft x4 ft, sound trap boxes made with absorptive material, all hanging on top. "The most humongous effort was hanging these boxes in the ceiling. They are in a sequence and they are all the way across. Each box weighs around 25-30-kgs, and then hanging those at 40 feet, plus we have the air conditioner and rig hanging from there, so putting it all together was a humongous task. The sound traps help me control the bass reverb, so even if you play the system loud, you will not find any boom, which will otherwise occur in such a big room. It's now all dry and clean sound. I first studied all the parameters and then we engineered. We had a targeted approach rather than just going all out and spending humongous money just because the project is big and there is money to be spent "says Raorane.

Bakaya said, "We had to reinforce the space with a lot of things at the back end, to achieve this in the front end. Because all these structures weigh tons and tons, it was not something possible given the original plan of the building. If you see our décor we were very clear

# PLAYBOY

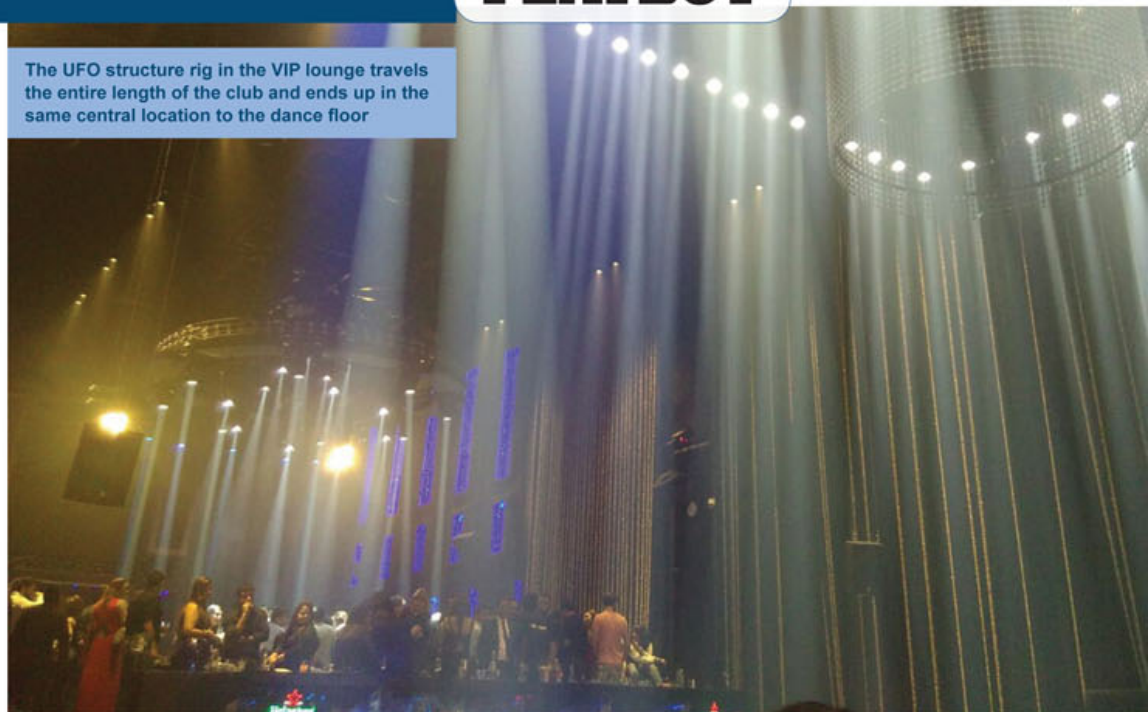


The UFO structure rig in the VIP lounge travels the entire length of the club and ends up in the same central location to the dance floor

system design as well, and that's how I started my work on this project."

Being a commercial building with offices on the top floor of club, there was a clear brief that no sound should filter out into the top floors and the outer premises while also ensuring optimum sound volume and crisp and clear sound inside. A high-end set up was brought in and a mock test was conducted to gauge how much sound was leaking out into the rest of the building and the outer premises.

"We had this issue of sound travelling up to the floors above through various avenues, like for instance there was a common shaft going up across all the floors and the shafts were taking all the noise up. There were other openings







The central dance floor truss is shaped like a square with a cylindrical LED 50x50 pixel chandelier in it

that we wanted to have Dubai's Cavalli look; we wanted to create something beautiful yet something that is very tech heavy. To get this sort of height is again very difficult so we knew we had to be in a mill. In Bombay we can only get this height in an old mill. We had to do a lot of reinforcements, tests, get in a lot of structural people and make sure we get all the permissions."

"As soon I stepped in, I knew that the original sound design and the ease simulation were not enough to really work out because it had been designed like a stage FOH system and not like a night-club. There were many shortfalls, like for instance, the base was very located and it was not giving an enveloping feel. Also, when you are dealing with large

surface areas, the magnitude of problem is also larger, plus you were coming into a property that was built for something else. Arun Kalra's team was there to help and I made certain changes, added some speakers and subs, realigned the entire sound system again and we had to do some EQing to clean up the sound. The VIP member's lounge has been powered with 6 tops and 4 subs. We then had a trial show for the client, who liked it a lot."

The sound inventory supplied by Delhi based White Eagle entertainment includes brands like Outline, Amate and Lake. At the venue, the line array of choice is Outline. The company deployed an extensive Outline loudspeaker system, comprising 8 arrays of Butterfly CHD to handle sound reinforcement at

the venue.

The boom of Indian DJs/ producers in the country has resulted in a paradigm shift in the nightlife scene in India, which is now no more confined to gliding through a hotel lobby to get to a typical bar belting out Bollywood music. India now boasts of stunning, design-led rooftop cocktail bars and standalone clubs (such as Playboy), with the best of Indian and International guest DJs playing retro rock, pop, EDM, Deep house, progressive and more.

"I had made it very clear from the onset that we would be getting great DJ talent from across the globe to perform here. So if you are getting DJs of that caliber, they naturally expect a great sounding venue. Milind has done a great

job. If you walk around the club you will not get a feeling that there is a drop somewhere or suddenly it is unnecessarily loud. We were very clear that the energy levels will not drop anywhere in the club right from the entry, till the VIP lounge. The balance he has created is what we exactly wanted," reiterates Bakaya.

Lighting is a major highlight of the venue and one of the world's leading designers of special effects, Lighting & Sound - **Dave Ward** of Sonicsss.com, a professional audio and lighting company based in Australia, was chosen to bring in something special to the lighting at the venue, as PB lifestyle wanted a very "Las Vegas style" club for Mumbai.

## The Lighting Element

"What I wanted was to conceptualize a design that's really interactive. Many years ago I did a Club called Juliana's Tokyo, which too had a big interactive chandelier in the center of the venue, very much in the same mould as PB, Mumbai. I designed the lighting system at PB almost as a tribute to Juliana's Tokyo. I enhanced the design to be unique for INDIA and to be interactive, cool and to be able to connect with the Indian patrons. The owners were open to a lot of suggestions and Parag Sanghvi (chairman, PB Lifestyle) & Natic Goyal were visionary in accepting my vision," says Dave.

The ceiling height allowed Ward to do lots of different things. Truss tracks were created on the ceiling to enable



There are seven lighting trusses in the venue, all of which move up and down on wireless hoist mechanisms

## Sound System Inventory Supplied by White Eagle Entertainment

Outline Butterfly CHD x 8  
DBS18-2 Sub x 4  
LAKE LM26 Controller x 1  
T9 Amplifier x 4  
T11 Amplifier x 2  
Amate Audio KEY15 Loudspeakers x 2  
Amate Audio KEY10 Loudspeakers x 2  
Amate Audio KEY18W Sub Bass x 1  
Amate Audio KEY15W Sub Bass x 1  
Amate Audio HD2000 Amplifier x 3  
T five amplifier x 1  
F8+ Loudspeakers x 2

### VIP AREA 2

1 Outline Eidos X123 Loudspeakers 6  
2 White Acoustics WS218 sub = 2

### BAR LOUNGE AREA

1 Outline Eidos X123 Loudspeakers 2  
Toilets  
1 Outline Eidos 6.5 Loudspeakers 4

### ELECTRONICS

1 Outline IP24 Digital Controller 3  
2 Outline M5000-4 Amplifier 3



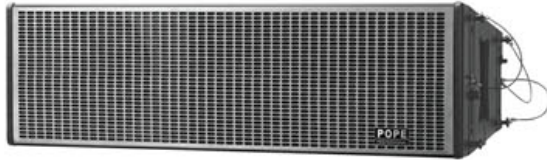
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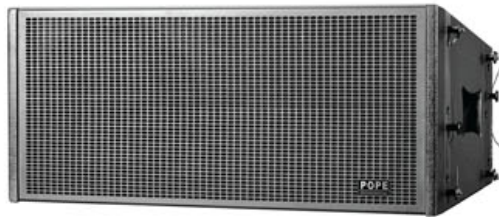
**GL-28** TWO WAY SPEAKER 960W



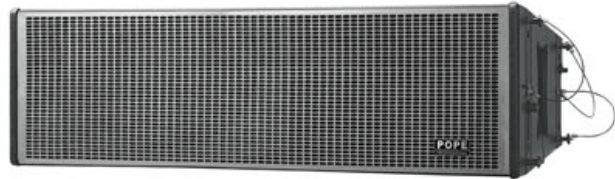
**GL-10** TWO WAY SPEAKER 700W



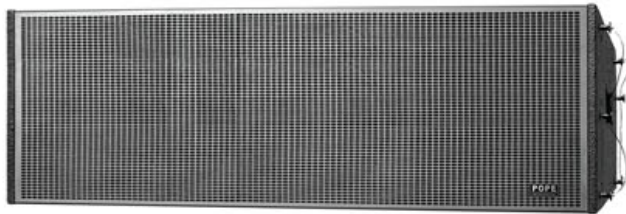
**GL-12** THREE WAY SPEAKER 1800W



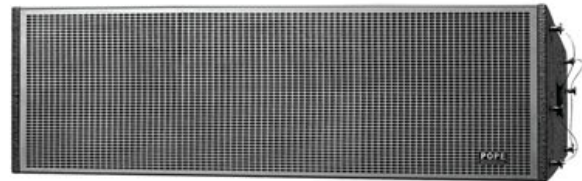
**GL-210** TWO WAY SPEAKER 1300W



**GL-215** FOUR WAY SPEAKER 3400W



**GL-212** FOUR WAY SPEAKER 2400W



## ELECTRONICS

### XD/XP-SERIES DSP



XD-4080



XP-4080

### M-SERIES AMPLIFIER



M-1.0



M-1.5



M-2.5

### MAC-SERIES AMPLIFIER



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MAC-7202



MAC-8202

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The lighting inventory includes the MA Grandma lighting console, Haze machines, smoke machines, binders and more than 150 moving heads

backward and forward movement of two main Lighting Truss rigs in order to create different ambience and lighting effects.

The central dance floor truss is shaped like a square with a cylindrical LED 50x50 pixel chandelier in it, which actually moves towards the DJ box tilting at 45°,

becoming the crown of the DJ box. "I did this to create space on the dance floor for the UFO structure rig in the VIP lounge to travel the entire length of the club and end up in the same central location to the dance floor. Originally the VIP UFO was only supposed to travel up and down. So originally we had planned

two big light rigs - one for the VIP lounge and one for the main dance floor but then we decided that with a little additional investment and minimal extra steel work, we could extend the tracks to go the entire length of the club hence moving the VIP UFO not just up-and-down but also laterally," says Dave.

There are seven lighting trusses in the venue, all of which move up and down on wireless hoist mechanisms and Grade A safety chains. Ward informs that initially a much smaller budget was allocated for the lighting of the venue but was expanded to incorporate the moving trusses.

The club is predominantly DJ driven and Sonicsss.com was entrusted with the design for the DJ stage as well. "We created two long truss arms that hold our moving head mad panels, CO2 effects machines, blinders the Pj89 flexible curtain screen and more. These arms and DJ truss surround the main Sonicsss P4 & P9 Sonicsss high definition LED screens providing a full effect." When the famous Playboy logo isn't on the giant screen, you can catch glimpses of 'real' Playboy parties from across the globe.

"I was asked to assist the interior designer **Ashu Somani** with a lot of LED architectural lighting as well, in order to highlight the décor and as you can see the decor is 2nd to none; Ashu did a great job. This was however totally separate from my original lighting design. All of the LEDs in the club are controlled from the DJ box using DMX, so we can change everything in the club to whatever colour we like; this way we can

*(Continued on page 56)*



Dave Ward of Sonicsss.com was chosen to bring in something special to the lighting at the venue

## All Lighting, LED & Effects - designed, supplied and installed by SONICSSS.COM & SONICSSSPROGEAR.COM

### LED Screens:

- 1 x Sonicsss SSS P4 indoor HD led screen 7 m x 4.5
- 2 x Sonicsss SSS P9 Flexible Led curtains 7 m x 3.5
- 20 x SQM Sonicsss P50 RGBW Led Curtain
- 2 x Speed leader HDMI splitter signal processors
- 180 x Sonicsss Pixel discs

### Sonicsss Brand Lighting:

- 48 x Sonicsss SSS MAX BEAM 50 LED
- 2 x Sonicsss SSS C4 MULTI BEAM with Wireless Dmx receivers
- 30 x Sonicsss SSS LEDSPOT 150 with Wireless Dmx receivers
- 32 x Sonicsss SSS LEDBEAM 150 with Wireless Dmx receivers
- 10 x Sonicsss SSS MADPANEL 251S with Wireless Dmx receivers
- 10 x Sonicsss SSS LED PAR 1604 RGB
- 4 x Sonicsss Wireless DMX Transmitters

### Sonicsss Brand Effects:

- 10 x Sonicsss SSS CO2 LED FXXX MACHINE
- 2 x Sonicsss SSS 330 FOG FXXX MACHINE
- 4 x Sonicsss SSS 800 PRO FOG FXXX MACHINE
- 4 x Sonicsss SSS HAZE 700 HAZE FXXX MACHINE
- 2 x Sonicsss SSS Confetti Cannons

### Trussing & Wireless Motor Controls

- Various Sonicsss Spigot Truss ( Black powder coated )
- 16 x SSS 500 Wire Hoists
- 8 x SSS 1T Trolleys
- 28 x Sonicsss wireles hoist controls

### Lighting control surface:

- Grand Ma CMD Wing & Fader Wing





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## PIDECK PROJECT RELEASES LOW-COST DIGITAL VINYL SYSTEM FOR RASPBERRY PI

64 Studio has announced the first official release of the PiDeck project which is an open source hardware and free software project retrofitting the Raspberry Pi onto any turntable. The software is based on the ARM Hard Float port of Debian GNU/Linux and xwax and is built into a custom single-purpose distribution which users can modify or use as it is by copying the image to a micro SD card for their own Raspberry Pi.

Digital vinyl systems are useful because it saves the user from carrying heavy boxes of

rare and valuable vinyl from place to place. However, laptop-based digital vinyl systems are complicated

often proprietary and incompatible and require cables to be switched between DJ sets. Laptops are also hard to share between DJs which makes turntablism less accessible for the people who are just starting out.

PiDeck project combines the digital convenience of a USB stick with the hands-on usability of the classic turntable, in a way which is affordable and accessible.

Daniel James, Director, 64 Studio said, "PiDeck doesn't have any mixing, sync or playlist features so that the DJ can take full credit for the sound of the mix. We have deliberately put no configurable options in the interface and

there are no personal files stored on the device. This helps to ensure that the PiDeck becomes a part of the turntable and not unique in a way that a laptop and its data is. This makes the PiDeck easier to share with other DJs so that there should be no downtime between sets and should make it easier for budding DJs to get a turn on the equipment. If a PiDeck breaks, it would be possible to swap it out for another PiDeck device and carry right on."

As the PiDeck software is fully open source and available on GitHub, developers can use it for new ideas in DJ'ing. Multiple PiDeck devices could be networked together or used to control another system via the turntable.



**PiDeck project combines the digital convenience of a USB stick with the hands-on usability of the classic turntable**

## KORG ANNOUNCES NEW MONOLOGUE SYNTH

Fully programmable, analog synthesis for all players, monologue is an advanced monophonic synthesizer with a new voice and features. It has a sleek layout, knob-per-function workflow and high quality construction like the minilogue and is a unique new synth for all types of musicians featuring new voicing and sound sculpting abilities. Its completely new filter, modulation, drive and LFO can generate powerful basses and sharp leads creating good mono sounds.

an unprecedentedly ultra-high-speed range to generate substantial space-shattering sounds.

The 16- step sequencer of the monologue has been significantly enhanced to deliver musical, complex rhythms that are easy to capture, see and edit. The monologue also has a set of factory tunings and well as 12 user slots and is compatible with MIDI Tuning Standard 3Byte messages. Its compact and light weighted body is only 1.7 kg / 3.78 lbs. providing an unprecedented combination



**Monologue-monophonic analog synthesizer**

The structure is 2VCO, 1VCF, 1EG, 1VCA, and 1LFO. The monologue contains monophonic analog synthesizer circuitry that builds on the circuitry of the minilogue. It has an efficient power that comes from a redesigned envelope section, modulation routing and a filter with a powerful low-end punch. Also, the LFO rate can be adjusted into

of toughness and portability. In addition the monologue can operate on batteries. With its Audio Sync connectivity, it allows it to play in time and integrate seamlessly with KORG volcas, electribes, minilogue and SQ-1. Available in five colours, it gives the users an extensive choice. The instrument is expected to start shipping in 2017.

## PIONEER DJ INTRODUCES THE DJM-450 – TWO-CHANNEL MIXER

DJM-450, a new two-channel mixer joins the Pioneer DJ range. Inheriting features and design elements from the flagship DJM-900NXS2, the DJM-450 is the ideal mixer to partner with XDJ-700 multiplayers or PLX-1000 turntables to create a professional-style set-up.

Precise and smooth mixes becomes easy by using the EQs and channel faders which features curves equivalent to those on the DJM-900NXS2. The Magvel crossfader, inherited from the DJM-900NXS2, gives an accurate response and assured feel during complicated scratch techniques.

The mixer is also equipped with Sound Color FX and Beat FX with parameter control adding professional creative flair to the mixes. High quality audio is ensured from both analogue and digital sound sources as a result of the 64-bit digital signal processor which uses dithering technology.



**Pioneer DJ DJM-450**

The built-in sound card allows users to connect the DJM-450 to your PC/Mac with a single USB cable and use the bundled rekordbox dvs application to control the digital tracks with turntables and the dedicated control vinyl.



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DMX CHANNELS :	24 CH
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## MASTERSOUNDS AND UNION AUDIO JOIN FORCES; LAUNCH ROTARY DJ MIXER: RADIUS 2

Audio accessories company, MasterSounds has announced the release of the Radius 2, a hand built analogue rotary DJ mixer.

Master Sounds founder Ryan Shaw has teamed up with Union Audio to create a Rotary mixer with a prime emphasis on quality of sound.

The Radius 2 offers an efficient clean, open and dynamic sound on both LINE and RIAA inputs as well as great usability. The mixer also features easy-reading VU meters, a responsive Master EQ/Isolator, a smooth natural sounding hi-pass filter on each channel and an AUX send/Return system for easy integration of external effects.

The new compact and highly



Rotary DJ Mixer: Radius 2

portable mixer has been developed by Union Audio at their Cornwall based workshops over the last twelve months. Andy Rigby-Jones who was a former head of design for Allen & Heath Xone DJ mixer range; has designed, built and tested

the analogue electronics, while Ryan's family owned metalworking factory manufactured the mixers outer casing.

Each mixer is hand built, tested and shipped by Andy himself, ensuring the ultimate in quality, reliability and performance.

Andy Rigby-Jones said, "The heart of the Radius 2 is a carefully designed audio signal path, marrying classic analogue circuitry to the latest high performance components and design techniques, all of which contribute to the superb transparency of the mixer. The main focus was on accuracy of audio reproduction, with minimal distortion, low noise floor and high headroom, aided by only using components of fine quality".

## NUGEN AUDIO INTRODUCES MASTERCHECK PRO

NUGEN Audio had announced the launch of MasterCheck Pro, a new loudness, dynamics, and codec toolset for music professionals on 14 November, 2016. MasterCheck Pro enables producers to hear and visualize the playout encoding and loudness matching techniques now in use by music streaming service providers such as Spotify, Apple Music, YouTube, and Digital Radio. Ideal for both, mix and mastering engineers, MasterCheck Pro enables producers to audition different codecs in real time to help avoid codec distortion or over-compression, resulting in masters that are perfectly tuned for each digital music streaming service.

"Consumer demand has never been higher for music on streaming apps, download stores, websites, and podcasts. All of these services use data compression and/or loudness matching, which can affect mixes in various unforeseen ways," said Jon Schorah, Founder and Creative Director, NUGEN Audio.

"With MasterCheck Pro, producers can take back control of the listening experience and mix to the streaming services' criteria. They can identify problems ahead of time and optimize their mixes, resulting in music that reaches the

listener sounding exactly as originally intended," he added.

With MasterCheck Pro, producers can instantly hear how their tracks are affected by loudness matching algorithms on different devices and services. Real-time codec auditioning helps users understand how masters respond to different codecs and bandwidths by giving them the ability to preview the mix through different encoding schemes and quality settings. Industry-standard meters show loudness and peak-to-loudness ratio (PLR or dynamic range) and how these factors are affected

when the music is played on the target platform. Producers can also A/B the master FX chain with other reference tracks or with the uncompressed mix.

In addition, MasterCheck Pro's loudness auditioning reveals any level changes that may be applied by the streaming service. MasterCheck Pro's true-peak metering ensures the mix is within the delivery spec and guarantees the music won't be clipped at later encoding stages.

Schorah said, "With regard to loudness and codecs, most playout services have a 'letter box' through which they deliver audio. If the music doesn't meet those criteria, then it will be forced to fit. A heavily maximized master might win the loudness war on a CD, but would simply be turned down on a music service or player - leaving valuable headroom that could have been used for transient detail and punch. With MasterCheck Pro's loudness and PLR features, producers can find the sweet spot between perceived loudness and dynamics, resulting in a master that's optimized to the format."

The plug-in supports AAX, VST, AU, and RTAS for both Windows and OS X operating systems.



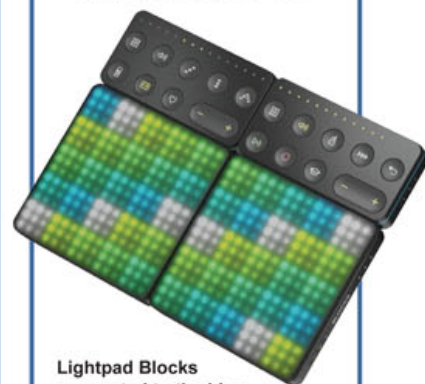
MasterCheck Pro

## ROLI LAUNCHES BLOCKS

ROLI has launched, BLOCKS which is an affordable LEGO-like music creation system. Each individual Block offers unique capabilities that allow users to create music in simple but far-reaching ways. The Blocks connect together to create customizable kits that suit any budget, skill level and musical style. With a click of magnetic connectors, music-makers can now build their instruments as they go.

Three Blocks were launched on 1 November, 2016. The Lightpad Block features a tactile, glowing surface that allows people to shape music through presses, glides and other natural gestures. The Live Block and Loop Block have controls that make it easier to perform and produce in real time. BLOCKS is powered by NOISE, a free music app for iPhone and iPad that is now available at the App Store. NOISE connects to BLOCKS wirelessly over Bluetooth becoming the system's sound engine as well as a standalone app.

Roland Lamb, founder and



Lightpad Blocks connected to the Live Block and Loop Block

CEO of ROLI, and also the inventor of BLOCKS, said, "Many areas of life have been transformed by the digital. Music, though, remains a universal language that everyone understands but only a few can speak. BLOCKS will change that and enable people around the world to experience the joy of music-making for the first time."

The Lightpad Block, Live Block, and Loop Block are exclusively available at ROLI.com, Apple.com, and Apple Stores around the world.



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# DJs Scratching on Favourites

2017 is set to be another fun-filled action-packed year in clubland! **SOMYA KEDIA** tracks the trend and highlights the toolkit of some of the top DJs in the country.

## DJ Akhil Talreja

Akhil Talreja known for his popular song 'Tenu Le KeJaana' sways the audience with his fantabulous mixes and ultra groovy beats. Winner of 15 War of the DJs championships, he is also the brand ambassador of the Party Map DJ Academy. His albums - Akhilicious and ReRun have won massive popularity among EDM enthusiasts in India. The audience witnesses a whole new experience of interactive clubbing with his exuberantly lively music that puts him on the map of India's dance scene. Travelled within the country and many places abroad, he has ensured that the force for his passion of his life is conveyed to one and all. Sharing his unique style in DJing, Akhil commented: "Taporimusic is what I am famous for as I believe however sophisticated the crowd may be, my music gets the real party animal out of them."



### Favourite Gear:

**CD Player:** Pioneer High End CD Player  
**Turntable:** Pioneer CDJ 2000 Nexus  
**Mixer:** DJM 900 Nexus  
**Headphones:** V Moda

## DJ Anish Sood

With his in-depth understanding of crowd, dance floors and electronic music, Anish Sood, has his originals and live sets sprawl across House, Electro and Techno. His weekly podcast, 'Suburn on Air' is India's premiere online podcast showcasing the latest and the one of the best in Dance Music from around the world. 'Opening for David Guetta in Pune, March 2012 is the most memorable moment for me; it was for the first time I ever played for more than 10k people. It still gives me the chills!' Sharing insight on his unique style in DJing, he commented, "I play using three CDJs and use the third player for sampling loops and acapellas. Playing around with the reverb time on DJM-900 to create interesting build up and down effects, gives astounding results."



### Favourite Gear:

**Controller:** Pioneer CDJ2000 nexus  
**Mixer:** Pioneer DJM-900nexus  
**Synthesizer:** a) Hardware synthesizer - KorgMinilogue  
 b) Software synthesizer - Sylenth1 and MASSIVE  
**Headphones:** Pioneer HDJ-2000MK2.





## DJ NYK - Nikhil Sahni

NYK has won the hearts of many music experts and masses alike. Experimenting with genres like ambient, euro, trance and break-beats, even before the trend came in, he has also made his name through unique podcasts which has bagged him huge popularity. His desire to constantly discover new and sensational music takes his audience to a completely new level of musical hysteria. Catapulting himself into the modern dance movement as both a DJ and a producer, he never fails to pour every drop of his passion into each project he takes on. Talking about his live show, NYK said: "Electronyk Show – an audio-visual spectacle is an immersive experience for the crowd and is very popular in the campuses. I have taken the show to Dubai and Spain as well." The show tickles the retinas of the music lovers with sense altering visuals, lighting and breathtaking music that is beyond genres.

### Favourite Gear:

**Controller:** Pioneer DDJ-SX2

**Mixer:** Pioneer 900 NXS

**Keyboard:** Yamaha Motif XS 6

**Headphones:** Synnheiser HD 25 II



## DJ Arjun Vagale



Arjun Vagale is one of India's most coveted DJs and is a part of an exclusive new breed of cutting edge producers who are making a massive global impact. He plays incessantly in the country and tours regularly in Europe, the USA and Asia. Holding true passion for the underground music, he effortlessly plays, produces and promotes it. His knowledge and use of technology is unrivalled as he innovatively wields drum machines and samplers to create a uniquely raw, electrifying and radically twisted set.

Winning huge recognition in the Electronic Music scene, Arjun's absolute dedication to house and techno is distinguishable.

### Favourite Gear:

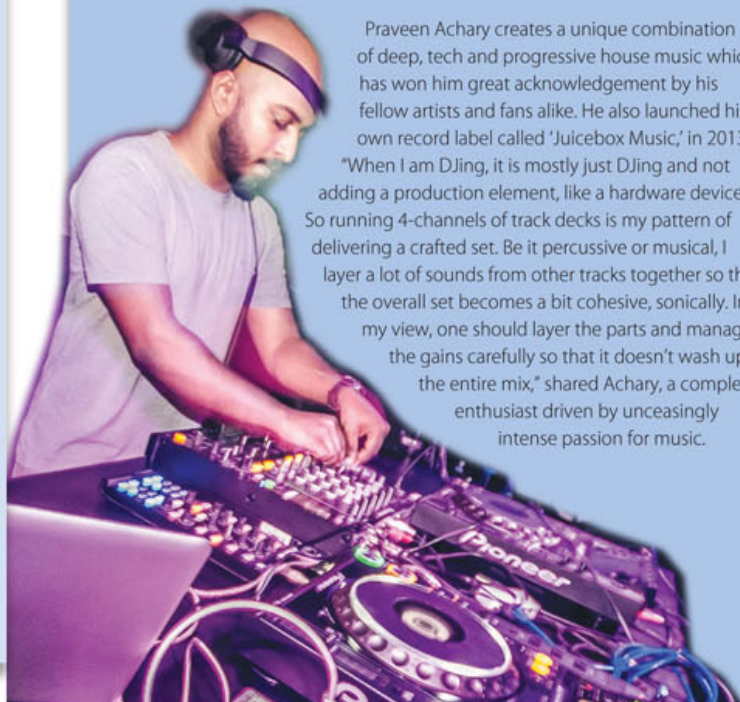
**Controller:** TRAKTOR KONTROL X1

**Turntables:** Technics

**Mixer:** Allen & Heath

**Headphones:** Sennheiser HD 25

## DJ Praveen Achary



Praveen Achary creates a unique combination of deep, tech and progressive house music which has won him great acknowledgement by his fellow artists and fans alike. He also launched his own record label called 'Juicebox Music,' in 2013. "When I am DJing, it is mostly just DJing and not adding a production element, like a hardware device. So running 4-channels of track decks is my pattern of delivering a crafted set. Be it percussive or musical, I layer a lot of sounds from other tracks together so that the overall set becomes a bit cohesive, sonically. In my view, one should layer the parts and manage the gains carefully so that it doesn't wash up the entire mix," shared Achary, a complete enthusiast driven by unceasingly intense passion for music.

### Favourite Gear:

**Controller:** NI Traktor Kontrol X1

**Mixer:** XONE:92 - Allen & Heath's

DJM-900NXS AND DJM-900NXS2 - PIONEER

**Headphones:** AIAIAI TMA-1



## DPA AND ANSATA EDUCATE TRIVANDRUM ON QUALITY MICROPHONE TECHNIQUES

Recently, the team-work of DPA microphones and their Indian distribution partner, Ansata came together and hosted a seminar-workshop in Trivandrum. The educative session gave local broadcast and production sound engineers an in-depth look into best microphone techniques and

Ansata, involved extensively sharing knowledge on microphone placement and positioning, frequency dependent radiation patterns for human speech, transparency in the audio chain and the importance of linearity in the frequency response on and off axis. Post the seminar, audience members also participated actively.

and energy of the attendees."

Bo Brinck shared that the audience in Trivandrum were well-versed with their craft, and much to his happiness, they stayed actively involved in the session as they voiced their questions and ideas, making it a pleasant symbiotic exchange of knowledge and

supplying world class equipment to the industry, we also want to endow professionals with invaluable practical and theoretical knowledge that will help them further their skill and understanding of technology in general. Our vision is to see the Indian market brimming with homegrown world-class professionals can match up to the best in the world and for this very reason, we are going to do our part and continue conceptualizing and organizing such workshops and seminars on a regular basis. We are thankful to our partners and our family of customers for all the love and support we have received and we assure them nothing but the fullest extent of our commitment and service in every sphere."



Broadcast and production engineers attending the DPA seminar-workshop

practices while emphasizing DPA's dexterous range of microphone technologies. It was attended by the local broadcast and production engineers of different networks such as Asianet, Amrita TV, Janam TV, Jai Hind TV and Mangalam TV in addition to a few live sound rental engineers from Melody Sound and Aarabhi Recording Studio.

The interactive workshop by Bo Brinck, Global Sales Support Manager, DPA Microphones in unison with Dipanshu Mitra, Product Manager, Pro Audio at

Dipanshu Mitra said, "Bo's unparalleled expertise got the audience acquainted with precise nuances of various microphones and their adaptations in various on-field scenarios. Also the live miking examples using various DPA microphones explaining applications for various on-location and broadcast scenarios helped in educating users on how to get great quality audio capture in a quick and efficient manner through the use of world class technology. Needless to say, the session really fed off the enthusiasm

information.

As the official distribution partners for DPA Microphones in the country, Ansata has made the entire range of DPA microphones for broadcast, live and music applications available across India.

Leslie Lean, Managing Director, Ansata re-affirms that their objective is not just to count in the number of sales, but to give back to the industry qualitatively in terms of valuable knowledge dissemination and holistic training initiatives.

He said, "We're not just about

## SENNHEISER BRINGS SOUND IMPRESSION ROADSHOWS TO RAIPUR

Sennheiser, showcased audio solutions - The successful Sound Impression series in Raipur on 9 December, 2016. The roadshow put forth an intriguing session and exhibited a wide range of Sennheiser's products along with Neumann Studio monitors and Apart audio solutions. Over 100 musicians, budding artists, sound engineers, AV rental houses and dealers attended the event.

The session was held for the first time in Raipur and it aimed to inform the audio enthusiasts on latest happenings in the world of sound.

Vipin Pungalia, Director, Professional Segment, Sennheiser Electronics India said, "With our focus on pursuit of perfect sound, Sennheiser launched the Sound Impression series in 2013 to share the experience of perfect sound with professionals and audio enthusiasts. We are thrilled to have provided people with latest happenings in the world of sound. The love and enthusiasm from people all around has encouraged us to make this successful series bigger and better with every edition. With every edition, we want to reach out to more people and thus taking the series to Tier 2 cities like Raipur which gave us an over whelming response."

Sennheiser Sound Impression, a part of Sennheiser Sound Academy (Germany), travels to different corners of India with the aim of reaching out to audio professionals, aiding them to understand techniques and update them on the latest audio solutions.

## ROLAND AEROPHONE AE-10 DIGITAL WIND INSTRUMENT CREATES A REALISTIC PLAYING EXPERIENCE

In the studio and on stage, your trusty acoustic sax is always by your side. But if you work across a range of musical genres, imagine how useful it would be to own a single wind instrument that delivers every sound that's required. The Roland Aerophone AE-10 is a trailblazing digital wind instrument that fuses traditional sax fingering with the flexible onboard tones you need.

Its responsive SuperNATURAL sounds and a sensitive mouthpiece-mounted breath sensor replicates the acoustic playing experience and enables complete control over nuance and dynamics along with expressive elements like vibrato and pitch.

It provides a variety of additional acoustic instrument sounds like clarinet, flute, oboe, trumpet and violin along with others and efficiently

matches the behavior of the originals. After trying the individual sounds, it also gives an option to create one-man ensembles by layering multiple wind instrument sounds with the Brass Section setting.

The AE-10 is versatile with built-in speakers, battery power and DAW connectivity.

The six AA batteries provide mobile power and its onboard monitor speakers deliver comfortable sound for intimate performing situations. It can be directly connected to a PA or an amplifier for broader coverage eliminating the need to use a mic.

When there is a need to cover larger instruments like tuba and bassoon, the battery-powered Roland



The AE-10 fuses traditional sax fingering with flexible onboard tones

CUBE Street EX is a great option that delivers massive sound in a portable package. It can also be connected to smartphone via the Aerophone AE-10's stereo mini jack and jam; also provides an option to perform anywhere with the headphones option.



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**PX** SERIES  
 PX10 / PX8 / PX5 / PX3

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Flexible Connectivity, Durable Construction



Utilities for Safe and Secure Operation



Sophisticated Signal Processing



Smart Configuration Wizard



Powerful, Efficient Design



Easy, Intuitive Setup



Output Power		PX10	PX8	PX5	PX3
1kHz, Non-clip, 20msec Burst, Both channels driven	8Ω	1000W x 2	800W x 2	500W x 2	300W x 2
	4Ω	1200W x 2	1050W x 2	800W x 2	500W x 2
	2Ω	700W x 2	600W x 2	500W x 2	300W x 2
	8Ω/Power Boost Mode	-	-	800W x 1	600W x 1
	4Ω/Power Boost Mode	-	-	1400W x 1	1000W x 1

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## YAMAHA LAUNCHES NEW STUDIO MONITOR HEADPHONES - HPH-MT8 AND MT5

Yamaha announces the upcoming release of the latest additions to the MT Series professional studio monitor headphones, the HPH-MT8 and MT5/MT5W. The new models will replace the HPH-MT220 and HPH-MT120 and will round out the line-up of live audio and studio headphones. It is developed around the concept of providing the live and studio audio engineers with high levels of precision and fidelity required for professional monitoring environments.

Designed to deliver flat, high resolution sound with precise stereo imaging and faithful source signal reproduction, MT Series headphones will provide high level of isolation and comfort to prevent

fatigue during extended monitoring sessions.

The MT8 and MT5 feature custom drivers which are equipped with 45mm and 40mm CCAW voice coils respectively along with powerful neodymium magnets to gain precise definition and control even at the highest output levels. Made from aluminum wire coated in highly conductive copper, the lightweight yet powerful drivers deliver a broad frequency response of 15 Hz-28 kHz for the MT8 and 20Hz - 20kHz for the MT5.

The model's sturdy design features a closed-back and circumaural configuration that offers a comfortable fit. Its sweat resistant headband ensures durability which is required for the rigors of road travel. The large ear pads are made from

smooth synthetic leather along with low-resistance cushions that absorb excess vibrations and reduce sound leakage providing outstanding isolation and stress-free wearability over extended period of time. A three-dimensional arm pivot construction and highly adjustable slider length allows the angle of the ear pads to fit the shape of the wearer's head perfectly. MT8 headphones also feature steerable ear cups for single-ear monitoring and a detachable straight 3 meter cord and coiled 1.5m cable that comes equipped with a corrosion-resistant gold-plated stereo

mini-plug and a gold-plated 6.3 mm stereo adaptor that allows them to be used with both professional audio gear and portable audio players.

Yoshi Tsugawa, Business Unit Director of Yamaha Commercial Audio said, "Ever since the development of the industry standard NS-10M studio monitors, we have maintained a uniform approach in all of our recording and sound reinforcement products that seek to achieve the purest sound reproduction possible; and give our users an ideal platform to work from when creating their own signature sound."



HPH-MT5W

## FREEDMAN PURCHASES SOUNDFIELD

The Freedman Electronics Group, home to pro audio brands like RØDE Microphones, Event Electronics and Aphex, expanded its company portfolio on 21 November, 2016 by purchasing the surround sound recording marque SoundField from TSL Products, the broadcast equipment manufacturer.

RØDE Founder and Managing Director Peter Freedman AM and TSL Products' Managing Director Chris Exelby sealed a deal that would now see Freedman Electronics take control over the entire SoundField company, including the current product line as well as all IP associated with the iconic brand. The existing product line will continue and all support and warranty for SoundField products will now be handled through the new entity. TSL Products will retain the upmix/downmix processing product range which will be rebranded.

Peter Freedman said, "I am extremely excited that we have added the SoundField product line to the Group. RØDE is a power player in studio and live microphones and the world's market leader in on-camera mics, so adding a product line like SoundField with its unique surround sound microphones and applications to our portfolio is a real step for the Freedman Electronics Group."

SoundField invented 360-degree surround sound or ambisonic – audio capture technology in 1978 and remains a leading brand. Today, the range includes innovative ambisonic microphones and systems/apps for broadcast, music and location recording.

"The applications for cinema, home theatre, music, and gaming and crucially the rapidly growing Virtual Reality medium are astounding. SoundField created the technologies

that are now benchmark equipment for capturing responsive atmosphere and a stunning sonic world. Oculus Rift, Playstation, Google, Samsung, HTC, even Facebook are all exploring and expanding their immersive VR experiences," added Freedman.

Chris Exelby commented, "We are proud to have brought the revolutionary SoundField microphone and processor range to its current prominence across many sectors from live sports and broadcast events to music recording and now to VR. It is fitting that SoundField has now found a new home with one of the world's most innovative microphone manufacturers, where it can be developed still further, while we at TSL Products focus on our core broadcast business and invest further in the crucial R&D that will lead to the next generation of broadcast control, monitoring and power management solutions."

TSL Products' Product Director Pieter Schillebeeckx will join The Freedman Electronics Group as New Product Development Director, in January 2017.

Pieter Schillebeeckx said, "I am looking forward to a terrific new challenge. RØDE is simply the envy of the audio industry and with Peter Freedman's vision on both product innovation and market strategy this is a great opportunity to develop new technologies and be part of the ongoing audio revolution that RØDE is building. To be able to live and work in such a beautiful country as Australia is really a bonus."

Freedman said, "I welcome Peter Schillebeeckx to the RØDE team. It's very exciting that someone so steeped in the SoundField microphone technology and history is enhancing our brains trust."

## ARTURIA ANNOUNCES MINILAB MKII

Arturia announces the release of MiniLab MkII which is a space-saving and high-quality controller well suited for musicians on the move. The latest in Arturia's range, it combines an expressive two-octave keyboard, RGB backlit

DAW functions. The two of the knobs are also clickable, allowing even deeper control of the user music-making. MiniLab MkII has an incredibly responsive touch strip controls for pitch bend and modulation along with sustain pedal

input to capture the authentic keyboard performance and dedicated octave up and down buttons for full creative access. Ableton Live Lite- an intuitive recording and performance software is included with MiniLab MkII,

which gives the user an access to record and produce songs straight out of the box. With the included Analog Lab Lite software the user can also access hundreds of iconic preset keyboard sounds taken from Arturia's award-winning V Collection 5, from electric pianos to analog monosynths, string machines to modular monsters. The owners of MiniLab MkII will be entitled to exclusive upgrade offers.

MiniLab MkII brings unmatched control to the project studio and provides performers with bus-powered and go-anywhere versatility.



Arturia MiniLab MkII

performance pads, 16 rotary knobs and an impressive suite of included software.

MiniLab MkII feature a 25-note slim keys and velocity-sensitive keyboard thus striking an uncompromising balance between size and playability. Its eight multi-purpose pads are ultra-responsive and RGB backlit, helping the user to easily identify the sound or controlling the function. With 16 rotary encoders, it gives the user full access to all of the important parameters of effects, synths and



## AUDIO-TECHNICA LAUNCHES E-SERIES PROFESSIONAL IEM HEADPHONES IN INDIA

Audio-Technica an innovator in transducer technology for over 50 years, has launched in India the E-Series Professional In-Ear Monitor (IEM) Headphones. Debuted at NAMM 2016, early this year, the three models in the E-Series have been designed to cater the demands of sound professionals and musicians from studio, stage and the DJ Booth. E-Series headphones are compatible with A-T's popular M2 and M3 in-ear monitor wireless systems together offering a comprehensive in-ear monitoring solution from Audio-Technica. They offer a perfect solution for use in any application requiring the use of in-ear monitoring.

### ATH-E70

The ATH-E70 is the flagship in-ear monitor model in the E-Series. Its accuracy allows precise balancing of the mix making it the perfect choice for monitoring on stage and ENG mixing in the studio. Offering high-resolution audio and an accurate sound stage the model is designed for sound professionals. Its features include:

- Three balanced armature drivers



**E-Series Professional In-Ear Monitor Headphones**

- Flexible memory cable loops over ears for a custom fit and long-wearing comfort
- Specially designed housing provides maximum isolation
- Detachable cable offers durability and optimized audio performance
- Includes a carrying case, silicone ear tips and Comply foam ear tips

### ATH-E50

The ATH-E50 features efficient

isolation that ensures confident and comfortable stage performance. To address the evolution of modern music production, this model provides a consistent reference in every sonic environment making it the ideal choice for the producer on the road. Its features are as follows:

- Powerful single balanced armature drivers provide accurate full-range response
- Flexible memory cable loops

- Specially designed housing
- Detachable cable
- Includes a carrying case and silicone ear tips

### ATH-E40

The ATH-E40 has a proprietary dual phase push-pull driver design which improves fidelity and efficiency. The ATH-E40 delivers powerful bass along with balanced mid and high frequencies to convey the full emotion of the music from the stage to the street. Its features are:

- Proprietary dual phase push-pull drivers excel in monitoring applications by providing exceptional accuracy and clarity
- Flexible memory cable loops
- Specially designed housing
- Detachable cable offers exceptional durability and optimized audio performance
- Includes a carrying case and silicone eartips

Audio-Technica's new E-Series professional in-ear monitor headphones will be available in India from Dec 2016.



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## Creativity – The Heart of Stage Events

2017 is shaping up to be an exciting year with a line-up of magnificent events which are ready to take place. It becomes important to be well versed with the latest trends in the event industry; like for example, the overall experience and engaging attendees throughout the event will help make an everlasting impression. Also, upgrading the approach and skills will engage the attendees on a deeper level. It is necessary to produce creativity with an improved interaction, networking and by creating marketing opportunities for organizers and suppliers.

The industry is expected to grow on an upward curve and the technology will play a key role to create a meaningful impact. When planning the strategy for the upcoming year, the event technology should align with the goals of the organization with focus on convenience. Talking about venues, it is getting bigger and there is an increasing demand of new locations. Organizers are looking for modern and exceptional places to conduct their next event thus challenging the visitors' way of thinking and making them actively engrossed. The venue itself breathes life into the attendee's experience.

Talking about venues, a space can take a show from completely forgettable to exceptional, like the **Magnetic Fields Festival**. It took place at a lavish 17th century palace property sprawling over more than 10 acres in the Rajasthan village of Alsisar and presented the latest sounds created in India and featured gypsy, jazz, dubstep electronic and alternative rock. An aural treat for the discerning music fan, it showcased freshest Indian sounds accompanied by some of the most exciting underground international stars along with a cultural pro-

gramme of local legends with a view of an indulgent backdrop.

A similar magnificent venue was witnessed at the **Ziro Festival of Music** that was set in the lush valley of Arunachal Pradesh and offered the fans a breathtaking view of the Himalayas. The festival highlights a mix of Indian and International bands as well as electronic, rock and folk-jazz acts. With wonderful new artists and cultures, the festival was held in one of the world's most picturesque locations.

Another example of the mesmerizing venue is of the **Flamenco and Gypsy Festival** Jodhpur which was

Marshall amplifiers and all the other bells and whistles that the artists require for when creativity strikes.

Taking forward, the live events are incomplete without the experience it has to offer. Rounding out the list of the upcoming musical extravaganzas; celebrate New Year's Eve with **Sunburn Hills** that plans to take its electronic music fans by storm. The musically charged venue will draw a packed house and is scheduled to be held from **December 28 to 31** at Kesnand district of **Pune**. This rocking extravaganza will witness some of the biggest techno and electronic mixing masters from around the globe

they are set to start 2017 in a trailblazing fashion.

The **SulaFest 2017** a festival amid lush Sula Vineyards, **Nashik**; does capture the imagination of the visitors and is scheduled to be held from **3-5 February, 2017**. In the beautiful open-air surrounding of the winery and Greek-style amphitheatre, the rock music festival is being annually organized at Sula Vineyards and this will be the 10th edition. It is all set to delight people with irresistible performers playing rock, folk, blues, electronic and reggae music.

To be held from **20-23 December 2016**, **Mood Indigo** is the annual cultural festival of IIT Bombay and showcases the devotion of the students working for it and they urge to deliver the maximum. It will witness a lot of performances and visits by acclaimed Indian artists. From shows by legends like Asha Bhosle, Ustad Zakir Hussain to Bollywood sensations like Sonu Nigam, Shankar Ehsaan Loy

and Vishal-Shekhar; Mood Indigo has also played host to concerts by various international artists like Porcupine Tree, Simple Plan, Neal Morse band featuring Mike Portnoy, Akcent and Sander Van Doom.

**Vh1 Supersonic**, the iconic Dance Music festival by Viacom18 will be held from **10-12 February, 2017** at Laxmi Lawns, **Pune**. The 4th edition will offer a rich experience for all, it is a celebration of every reveler with non-stop music from renowned dance music DJs in the country and the world. Supersonic was a grand success in its year of inception in 2013. Showcasing quality music, the festival has grown over the years in terms of audiences, experience, vibe and offerings. Pune with an enjoyable weather will also offer better traveling and accommodation options.



held at Mehrangarh Fort. Situated at about 410 feet above the city, the splendid craftsmanship of Jodhpur was perceived in the fascinating sandstone palaces within the Mehrangarh Fort. The main objective of the festival was that it connected Rajasthan folk musicians and Flamenco along with the gypsy artists from different parts of the world. It provided a platform for the creative energy to be shared with the world.

A distinct yet creative venue is featured by the **Red Bull Tour Bus**, a gig machine that travelled across the country spreading the joy of music. The part stage, part bus provider of great music has been connecting musicians with their fans since 2013. The 6000cc behemoth comes packed with a set of six bunk beds with a complete music system that includes the Pearl drum set, a Hercules Keyboard,

including EDM powerhouse Armin Van Buuren, Axwell & Ingrosso, Afrojack, Dimitri Vegas & Like Mike and KSHMR. The power packed also includes artists like AJJA, Angerfist, Dannic, Eats Everything, Mattn, Nucleya, Tom Swoon among others.

Sunburn Festival has also announced the first **Sunburn Arena tour of 2017** with French superstar David Guetta and will take place from the **13-15 January**, in **Mumbai, Hyderabad and Delhi NCR** respectively. The tour will be a part of the Frenchman's Unity Tour 2017 and will also see German deep house maestro Robin Schulz accompany him to all the three cities. Over the years, Sunburn Arena has won great reputation for organizing some of the most popular gigs with huge international as well as Indian names in the dance music industry. With the David Guetta Arena,



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# Power Amplifiers

## FESTIVAL PROS

### L-Acoustics LA8

Proprietary algorithms are processed in a 32-bit floating point DSP engine at a 96 kHz sampling rate. A dedicated engineering approach combining IIR and FIR filters allows generating perfectly linearized phase curves and significantly improved impulse responses for an even more natural, transparent, and realistic sound experience. Two cascaded 24-bit A/D converters at the front-end yield a ground-breaking encoding dynamic of 130 dB.

The L-DRIVE protection system carries out a dual analysis of signal level in real-time and RMS. Under extreme conditions when component membranes reach the over-excursion zone or if the coil ensemble temperature reaches a critical point, L-DRIVE acts as a power regulator. As a result the amount of power delivered at any channel is adjusted to the dynamic and thermal capacity of each individual transducer. This optimizes the power resources while preserving the highest dynamic range.

With a complete preset library and the possibility of creating additional user presets,



the engineer is offered fingertip access to all the usual L-ACOUSTICS loudspeaker system configurations.

The four amplifier channels driven by two inputs provide optimum system flexibility. The LA4 and LA8 offer two specific power ranges (4 x 1000 watts into 4 ohms, and 4 x 1800 watts into 4 or 2.7 ohms, respectively) yielding perfect power matching to each individual L-ACOUSTICS loudspeaker system.

The built-in technologies allow control of the very wide dynamic range found in live audio productions while the high-efficiency components offer superior reliability, all from a sleek ergonomic package with exceptional weight/size ratio.

The front panel user interface features extremely fast access to edit the 2 input and 4 output settings. The encoder wheel gives instant access to the user menus and the LCD screen offers real time visualization of the system parameters.

Command access includes mute, gain, preset selection, plus delay and polarity settings.

Navigation through the menu pages is fast and intuitive. Beside the standard on-board preset library, the engineer can design and store his own settings (initialized from a standard preset template) in one of the 10 available user locations.

#### Main Features include:

- Cutting edge loudspeaker amplification, DSP, network
- High-grade 24 bit A/D converters, 130 dB dynamic range
- 96 kHz/32 bit floating point SHARC DSP
- 4 channel high efficiency amplifier section fed by 2 inputs
- 4 x 1800 W / 4 Ohms
- Advanced dual IIR/FIR filter algorithms
- Exclusive L-DRIVE system protection
- Complete onboard L-ACOUSTICS preset library
- LA NETWORK MANAGER 2 software for remote control & monitoring
- AES/EBU Standard on LA8 and LA-RAK

### Crest Audio CC 4000

The CC Series amplifiers are built with tunnel-cooled heat sinks, variable-speed DC fans and extensive protection circuitry for superior efficiency into difficult loads and power conditions. The robust amps also boast of more power devices (16 per channel), in addition to a switched-rail class H output stage and triple-compound design to provide low distortion and good thermal stability.

With a linear power supply the three versatile CC Series amps deliver stable and high power output for running main systems, monitors and subwoofers.



#### Main Features include:

- 8 Ohm Stereo - 800 W
- 4 Ohm Stereo - 1350 W
- 2 Ohm Stereo - 2000 W
- 4 Ohm Bridged - 4000 W
- Toroidal power transformer
- Magnetic circuit breaker on/off switch
- Cooled by variable speed fan with back-to-front airflow

- Mode selector switch for stereo, parallel and bridged-mono operation
- Inputs: Balanced female XLR, 1/4" TRS combi jacks
- Outputs: Speakon® and five-way binding posts
- Recessed, stepped attenuators
- 16-gauge steel chassis, cast aluminum front panel
- Five-year warranty

### Powersoft X8

Powersoft X8 innovates and evolves the concept of the amplification platform through the integration of a worldwide compatible power-box and a full feature DSP inside the power amplifier.

The complete digital audio signal management system based on ARM Cortex A-8 processor and TI C6000 DSP platform heralds new and innovative level of signal processing, providing non-boolean routing and mixing, multi-stage equalization with raised-cosine, IIR and FIR filters, delay up to 4 s in input processing and 200 ms for time alignment, gain and polarity adjustment, crossover, peak limiters, TruePower limiters and Active DampingControl.

The power supply permits worldwide AC acceptance and direct connection to any regional power line configuration, it is now



suitable to Single Phase, Bi-Phase or Three Phase operation from 85 VAC up to 440 VAC without need of manual selection. True Three Phase load balancing is directly achievable by the unit without any complex load assignment in the power distribution system design.

#### Main Features include:

- General
- 6th generation fixed frequency switch-mode output stage for high grade sound accuracy
  - Compact size and high power density
  - Modular construction allowing for rear panel customization
  - AES3 digital inputs
  - Two redundant Dante streams



*The right amount of wattage, and the right features, is what will mark the right power amp for your big stage PA system. In analyzing power amplifiers, getting know-how of specifications can help considerably. This feature is ideal for those seeking power amplifiers helping them to explore the options and make the right choice. We present a list of six power amplifiers seen at many a live events (big and small) across the globe.*

#### Settings

- Non-boolean channel routing
- Input signal backup policy aimed to improve reliability against signal fault
- Signal grouping for speaker routing
- Built in WiFi remote management

#### Monitoring

- Hardware monitor available for fast local diagnostic
- Load impedance measurement / display for each channel
- Output power measurements / display for each channel
- Mains voltage and current measurements / display

#### Digital Signal Processing

- TI C6000 DSP platform architecture
- AD/DA converter: dual 24bit @ 96 kHz Tandem® architecture, 127 dB dynamic range, per channel
- Input/output independent equalizers per channel providing Raised-cosine, custom FIR, parametric IIR: peaking, hi/lo-shelving, all-pass, band-pass, band-stop, hi/lo-pass
- Crossovers: linear phase (FIR), hybrid (FIR-IIR), Butterworth, Linkwitz-Riley, Bessel: 6 dB/oct to 48 dB/oct (IIR)
- Input delay up to 4 s and output delay up to 200 ms for time alignment per channel
- Active DampingControl for cable compensation
- Power limiter (TruePower, RMS voltage, RMS current) + Peak Limiter

### Peavey CS4080HZ

Peavey CSeries showcases workhorse reliability. Over the years, these amps have benefited from some of Peavey's most popular audio innovations, including its DDT compression/anti-clipping protection. With its 2 RU design and power points up to 4080 watts, this latest evolution of the CS Series is leaner, louder and lighter.

#### Main features include:

- 2 temperature-dependant variable speed fans
- 2040 watts (rms) per channel at 4 ohms



- 1250 watts per channel at 8 ohms
- 4080 watts at 8 ohms bridged
- 5-year warranty
- 2-rack-space stereo power amp featuring DDT
- Weight Unpacked: 47.60 lb(21.591 kg)
- Weight Packed: 53.00 lb(24.04 kg)
- Width Packed: 21"(53.34 cm)
- Height Packed: 22.5"(57.15 cm)
- Depth Packed: 6"(15.24 cm)

### Crown XLS 2500

The XLS Series of power amplifiers from Crown define the standard for live sound systems with efficient performance, technology, and affordability. Its advantageous flexibility includes multiple inputs so that the user can plug in anything and play anywhere, along with several system setup configurations. The integrated crossovers and switch-mode power supply produce superior sound, and Peakx limiters protect the speakers. Weighing less than 12 pounds, it is much easier to set up and move from show to show. XLS is reliable, versatile and efficient amp.



Generating chest-thumping lows and crystal clear highs, the four models in the series – the XLS1000, XLS1500, XLS2000 and XLS2500 are engineered to meet any demanding audio requirements, reliably and within budget.

#### Main features include:

- XLS High Performance, Lightweight Class D amp weighs less than 11 lbs.
- Integrated PureBand Crossover System for better performance and control
- Peakx Limiters provide maximum output while protecting the users' speakers
- XLR, 1/4", RCA inputs provide outstanding flexibility
- Efficient forced-air fans prevent excessive thermal buildup

- Electronically balanced XLR inputs; touch proof binding post and Speakon outputs
- Precision detented level controls, power switch, power LED, and six LEDs which indicate signal, clip and fault for each channel

### Yamaha PX10

PX series models are driven by a newly developed Class-D amplifier engine that concentrates functions into a single custom LSI chip and uses PLL technology to control transfer characteristics in real time, achieving impressive sound quality and power. This new single-chip architecture offers higher output and improved performance in a more lightweight yet reliable design. A combination of cutting-edge technology and an exhaustive component selection process make PX Series amplifiers supremely efficient amplifiers with low noise, reliable protection features and good sound quality. The versatile PX series power amplifiers lineup



combines intelligent processing with high output power to meet the requirements of a vast range of sound reinforcement environments.

#### Main Features include:

- 2x 1000W at 8Ω
- 2x 1200W at 4Ω
- Newly developed Class-D amplifier engine with a custom LSI
- Flexible onboard PEQ, crossover, filters, delay, and limiter functions
- Yamaha Speaker presets
- Utilities for safe and secure operation



Looked up to as a beacon of hope, Global Citizen Festival India held in Mumbai on 19 November, 2016 proved to be a monumental day as India asserted its solidarity with the world in fighting extreme poverty.

As a music extravaganza that brought together music from the world's most revered acts in an effort to raise social awareness on the pressing issue of poverty across the world, it aimed to work towards eradicating this scourge completely by the year 2030. Initiated in New York USA by the Global Poverty Project, the goals of the festival have been closely aligned with the United Nations' Sustainable Development Goals-a set of seventeen aspirational "Global Goals" to accomplish by the year 2030 with Chris Martin, lead singer of the mega group

Coldplay and Creative Director of Global Citizen Festival.

Produced by Wizcraft India, the Global Citizen Festival India witnessed a star studded line-up of artists and performers that included Bollywood artists like Amitabh Bachchan, Farhan Akhtar, Shankar-Ehsaan-Loy, Arijit Singh along with others. Also International music acts by Demi Lovato and Jay-Z were well-received. The highlights of the evening were, Coldplay and AR Rahman, who won great appreciation from the audience with their individual marvelous performances. They stepped up brilliantly with their power-packed duo-rendition of 'Vande Mataram.'

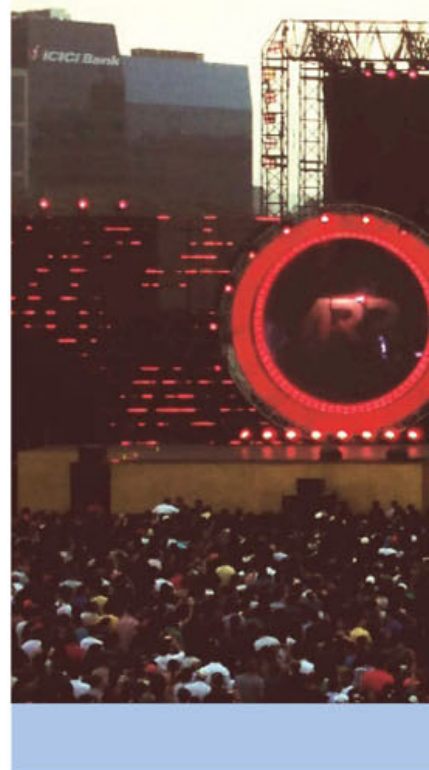
### Live Sound Reinforcement

Owing to its sheer scale, the event

demanded a truly comprehensive and world class live sound reinforcement architecture, Wizcraft entrusted this responsibility to Electrocraft, supported by Sound & Light Professionals (SNL Pro).

Viraf Sarkari of Wizcraft said, "The Global Citizen Festival India was always meant to be a world-class show, the likes of which the country has never witnessed before. The stellar line-up, the planning and programming and the sheer scale of the event in itself, demanded a live sound architecture that would not just sustain the show, but would allow it to thrive. To support an event of this magnitude, we realized that apart from the tonnes of world class gear, we needed to work with people who knew their sound well; who blended experience, aggression and tenacity; and who could

**Roger Drego** from Electrocraft, with support from **Manish Mavani** and his team from Sound & Light Professional (SNL Pro), reinforced headliners Coldplay, AR Rahman, Jay Z and Demi Lovato with the biggest synergetic L-Acoustics system seen in India, making it the most technically advanced single stage concert that the country has ever seen.



# Global Citizen Festival India

## Electrocraft plays sound catalyst



Rorger Drego with the Electrocraft and SNL Pro teams who worked together as a cohesive unit to deliver a spectacular audio treat





The audio system deployed for the festival concert included a staggering amount of audio mixing consoles, 19 precisely spreading across different sections that include FOH, Monitoring and Broadcast

rise to the occasion and overcome the mammoth challenge that we had vowed to fulfill. And I am glad that we found this perfect mix in the amazing confluence of Electrocraft and Sound & Light Professionals!"

Roger Drego from Electrocraft said, "To work on a gig of this scale and magnitude was absolutely amazing. Firstly, we would like to thank the entire management and organizing teams at the Global Festival India for bringing such an amazing concept to India and for entrusting us with the responsibility of putting together the biggest and best live audio system that has ever been seen for any single stage concert in the country. Delivering this kind of mammoth audio production required us to seek support in terms of inventory from our peers across the country and I would like to thank **Santana Davis** from J Davis Prosound & Lighting, **Porus** from Effects Tech S. L. T. Private Limited and **Navneet** from Audio Design for renting their L-Acoustics boxes. The process of bringing together this audio architecture took months of planning and preparation, weeks of co-ordination, days of rehearsals, and countless hours of dedication and effort from the entire audio team. And I must say it was a pleasure to witness how the Electrocraft and SNL Pro teams worked together as a cohesive unit and pulled off an amazing feat. The result that we all witnessed was a spectacular audio treat for the audience at the Global Citizen Festival India and it is absolutely a matter of great pride for us all."

While individual setup and technical support roles and responsibilities for FOH, Monitoring, Backline and Broadcast room were precisely distributed between the Electrocraft and SNL Pro teams, the event in its entirety deployed a mas-

sive synergetic audio consonance that came as a result of the two companies synergizing their respective inventories. The comprehensive amalgamated audio system deployed for the festival concert included a staggering amount of audio mixing consoles, 19 precisely spreading across different sections that include FOH, Monitoring and Broadcast.

While Coldplay and JayZ chose to deploy their own respective series of backline gear which they travelled with, artists like SEL, Farhan Akhtar, Arijit Singh, Karsh Kale, Demi Lovato and others, relied on world class backline tech provided by Electrocraft and SNL Pro to deliver their signature sound. And rounding it all up together as one colossal force was the mammoth loudspeaker system featuring global niche pro audio brand – L-Acoustics, where line arrays from the K1, K1SB, K2, KARA, V-DOSC and DV-DOSC were spread across the FOH position and delay positions across the venue to ensure optimum coverage and impact.

## The Team

The Production desk for the entire

PA was handled by Dwayne Das of Electrocraft. All outputs from various mixing desks of the different artists were all routed through the Production Desk Avid S6L. The other people on stage for monitors and backline were, Bruce Rodricks and Sujit along with their teams from SNL Pro, Dave Drego along with his team from Electrocraft. Yohan Fernandez and team were responsible for engineering time alignment and signal distribution with EQ for the Main PA, side hangs and delay arrays. Michael Wirth from Germany representing L-Acoustics also played an important part in the alignment of the entire system. Chris Russo from DPS was also instrumental in helping to make the transitions between the various artists flow seamlessly.

Manish Mavani, Director of SNL Pro, commented, "If you were to view the Global Citizen Festival India from an event production point of view, this is undoubtedly the most technically advanced single stage concert that India has ever seen. The audio team ran cable lines that stretched over a Km to precisely facilitate live, broadcast and recording audio in their respective streams.

Sorting the delay towers proved to be another challenge owing to the sheer numbers and the distance that we had to cover. The organizers were commendably meticulous in demanding a pure L-Acoustics sound signature to be maintained across the expanse of the concert, and it was up to us to ensure that a truly uniform audio experience was delivered to the crowd by precisely tuning and time aligning the delays with the FOH. The L-Acoustics engineer Michael from France played a vital role here in setting the time delay's and eq'ing of the delay stacks. Then of course, we did have the support from the personal engineers of the various acts- local and international that did absolute justice to the magnanimous sound system that we had put up and made each and every act sound every bit as amazing as it deserved to be. Finally, I must say none of the success would have been possible had it not been for the various sound technicians and engineers that spent days and hours working tirelessly behind the scenes right from setup and rehearsals until the

(Continued on page 50)

FOH	DELAY	BROADCAST ROOM	CONSOLES (across FOH & MON)
L-Acoustics K1 – 28	L-Acoustics K1 – 12	Digico SD10 console – 1	AVID S6L console – 3
L-Acoustics K1 Sub – 12	L-Acoustics KARA – 6	AVID Profile console – 2	AVID Profile console – 3
L-Acoustics SB28 – 40	L-Acoustics K2 – 66	Near Field Monitors – 8	AVID SC48 console – 2
L-Acoustics DV-DOSC – 18	L-Acoustics V-DOSC – 72	Analog split channels 196	Soundcraft Vi7000 – 1
L-Acoustics LA8 Amps	L-Acoustics LA8 Amps		Soundcraft Vi6 – 2
BACKLINE FOR ARTISTS			Soundcraft Vi3000 – 2
Shankar-Ehsaan-Loy, Farhan Akhtar, Arijit Singh Symphony – SNL Pro			Soundcraft Vi1 – 1
Demi Lovato, Karsh Kale, Shillong Choir, DJ acts – Electrocraft			Digico SD7 – 4
AR Rahman – Sound.Com			
Coldplay & JayZ travelled with their own respective backline gear			



# Electric Daisy Carnival debuts in India



*Electric Daisy Carnival is one of the world's leading music festivals which made its debut in India on 12-13 November, 2016 at Buddh International Circuit in Delhi NCR. The event production and the technical reinforcement were from Sound & Light Professionals (SNL Pro) who played a critical role in the festival's unmatched success*

Originating in Las Vegas Nevada, the Electric Daisy Carnival over the years has asserted itself as a hub for EDM fans across the globe, as a result of its fantastic on-stage music programming, enchanting stage designs, larger-than-life technical and production value, captivating art installations along with the splendid on-ground engagements, all of which come together as a rather seamless breath-taking amalgam that heightens the senses.

When OML & Insomniac Events officially announced in the third week of August that they would be bringing Electric Daisy Carnival (EDC) to India, the music fans were overjoyed.

For its first year in the running, EDC absolutely did not disappoint. Budweiser, the title sponsor of the festival, had created a lounge right opposite the main-stage with some cool LED furniture while Bacardi engaged the audiences with a guitar-based activation. Other aspects of the festival that worked extremely well were the tech-integrated installations that garnered a lot of attention from festival attendees. The art installations at the festival grounds coupled with the use of lights to create fascinating effects that kept festival goers engaged.

The highlight of the festival was its lineup where all performing artists backed up the hype with nothing short of their best and most spirited individual performances which left the audience mesmerized. International heavyweights like Alesso, Afrojack, Steve Aoki, and Yellow Claw led the roster of globally acclaimed artists, who along with local champions like Arjun Vagale, Anish Sood, Dualist Inquiry, Nucleya, SickFlip and other such highly influential Indian artists, showcased a stunning audiovisual experience that enchanted the audience.

#### EDC Stage

Stage designs and technicals for the event were impressive as EDC India gave Indian EDM fans a flavourful Vegas experience with the stages, kineticFIELD, circuitGROUNDS and neonGARDEN – exhibiting spectacular designs and production value that would be at par with EDM festivals elsewhere in the world.

The extravagant event production for EDC India, courtesy Greenstone Entertainment, is what held the entire event together; as the festival sported superlative technicals including the audio, lighting, LED/video, special effects & pyro, trussing and supports, all of which were designed and commissioned by

stage rental solutions company -Sound & Light Professionals (SNL Pro), Mumbai.

Vincent Samuel of Greenstone Entertainment asserted, "EDC India has undoubtedly set the benchmark for the complete festival experience, especially if you consider it from the production point of view with key emphasis on sound, light and technicals. Not just in terms of sheer scale, but also the quality of the reinforcement solution. The organizers demanded for nothing but the best and big ups to the OML and Insomniac Events team for this. I believe that's exactly why the festival turned out to be such a huge success. Working with Manish and his team at SNL Pro was a pleasure as always and together I believe we put up one of the most captivating festival experience that India has ever witnessed. And with this being just the first year, I believe congratulations and cheers are in order, as there's many more to come!"

#### L'Acoustic powering it up

The entire event, EDC India sported a mammoth loudspeaker system from global niche audio manufacturers L'Acoustics, as the SNL Pro team commissioned the K2 System and the KARA system along with the SB series subwoofers; all of which were powered by the LA

series power amplifiers (k2 x 66; kara x 48; X15 x 16; SB 28 x 80; LA 8 x 52). The magnificent lighting, visuals, LED and special effects setup spanning over 15000 lighting fixtures and approximately 7500sq.m of LED screens spread appropriately across all the performance stages.

Commenting on the mammoth scale of the technicals for the event, Manish Mavani, Director of SNL Pro shared, "OML and Insomniac have created history in bringing together a masterpiece of a festival that can match-up to any top-line festival in the world, especially in terms of experience. With each stage sporting a dedicated tech reinforcement solution that was categorically conjured to perfectly complement the stage design and the music programme, we ensured that the audience enjoyed a fresh perspective of music, and the festival in total; without compromising one bit on quality or impact. That's a huge victory. The vision of the organizers coupled with the genius of Vincent and his team at Greenstone Entertainment and of course the dedication and cognizance of team SNL Pro is what has culminated into EDC India asserting itself as a true symbol of excellence when you consider a wholesome festival experience. Extremely proud and honoured to have been a part of such a monumental event in our country's festival culture history."

With fans and enthusiasts excitedly anticipating the EDC to return in 2017 with a bigger and better show, the organizers peak their elation by saying, "If you thought 2016 was great, wait till 2017 hits you!"



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# Product Specialists

## Driven by Passion

*Product specialists are subject matter experts with all the know-how about a product line's technical specifications and functions. Their role is quite interesting as they not only assimilate knowledge and are well informed about the technical developments, but are also actively involved in marketing and promoting the product as they also have thorough knowledge about the product's competitive position. **Somya Kedia** speaks to DJs / Musicians, who driven by passion have formed an inspiring "career within a career" for themselves, by becoming product specialists. Read on to understand their role and responsibilities, and how they act as the liaison with the business.*

### Tuhin Mehta

A professionally qualified sound engineer from SAE in Chennai, Tuhin is also a sought after DJ who has immense experience of playing at various clubs. A sharp understanding of the technical aspects behind sound production and immense knowledge of equipment, gained him the position of a product specialist for Pioneer DJ India and his areas of expertise lies in club equipment, samplers and remix stations.

The combination of both prowess and technical ability adds to his recognition as a DJ who has in-depth information about the science of rocking a dance-floor.

#### Role

Conducting workshops, master classes and exhibitions on the latest gear from Pioneer, across the country, Tuhin Mehta is also involved with product research and development. He believes that the prime role as a product specialist is to be in touch with the advancements in technology and market demands for new products. The responsibility excites him to a great extent as it helps in designing and developing future products. "It is challenging to look ahead 5-10 years into the future and try to come up with the needs that would be," he asserts. His role also involves dealing with customer services and addressing the queries of the clients. Taking it in the right stride, Tuhin says that the queries help him in creating better products and he treats every single feedback as a valid one. He also gives solutions to the customers that would work best for them.

#### Activities Galore

"We have extensive plans for the year 2017 starting with the North East of India and then we will move to other places," he affirms.

#### Staying Up-to-date

"The Internet is our best friend," says Tuhin. It helps him stay well-informed with latest technology and competitive products. "For the current products it helps to be friends with people who work for other brands, it is a good way to compare and compile ideas," he added.



The Turntablist, DJ, sound designer and a product specialist, DJ Skip performs unique trickery on the decks. He fuses his innovative scratching techniques with diverse genres like Trap, Hip-Hop and Dubstep. In addition to this, DJ Skip also dedicates his time to teaching his craft to young, aspiring talent by conducting DJ workshops at colleges.

#### Role

As a product specialist for Pioneer PLX-1000 Turntables, DJM-S9 MIXER and Toraiz SP-16 Sampler, Skip is responsible for addressing the queries of the customer. With thorough knowledge of the product, Skip firmly opines that there should be an avid desire for understanding and keeping oneself abreast with the new technologies. He finds it extremely fascinating to get hands on experience on the new technology before anyone else.

#### Activities Galore

"There have been many promotional activities like workshops and competitions held by Pioneer DJ India currently. With upcoming line-up of events, Pioneer DJ India has big plans for the next year," says Skip.

#### Staying Up-to-date

The key to be at par with the competition is in-depth research. Always keeping an eye for new technology, Skip as a DJ performs and travels to many places outside India which helps him to be updated with the latest trends and future technology. He relentlessly works to deliver added value to customers.



## Vivin Kuruvilla



With 6 years of experience in the industry, Vivin started his career as a semi-pro musician performing with multiple bands in the city of Chennai, continued ahead as a session artists for the movies and soon began his journey into Music Tech. Amidst immense passion for gear, he attained professional training in an Audio School. Handling Sales and Marketing at ProMusicals for about 4 years, has given him access to 30 top music and DJ industry brands like Universal Audio, Focusrite, Novation, Native Instruments and a lot more, making it a super exciting and knowledgeable journey, for him.

### Role

Vivin Kuruvilla specializes in Native Instruments Komplete Kontrol S-Series Midi Controllers, Kurzweil Professional Keyboards, Universal Audio and Focusrite Interfaces and Novation Midi Controllers.

According to him, information is the key to success. One can most definitely be on the road to becoming a top-notch product specialist with excellent

communication and engaging skills, being well aware of the competition and considering how efficiently does the company's product perform against the competition. By building strategies with the marketing and sales team to position, develop and sell the products to dealers and end users also benefits to a great extent. Also according to him, by studying the market in regards to the necessity of the product, its affordability and representation both, online and offline, works well.

"The part that excites me the most is to get my hands on products that the world is yet to see. As well as gaining first hand information and training from the makers of the product and the chance to give manufactures suggestions from our local markets is a lot exhilarating," he says.

Vivin handles the customers' feedback with grace. He deals with customers the same way he would like to be treated if he had a problem with something he purchased. "By listening to their queries, understanding the problem and offering the best solution available to quickly solve the issue, is the right way to manage it," Vivin asserts.

### Activities Galore

Commenting on the activities he is engaged in, he says, "We organize workshops, new product launches, and live performances along with after sales support for our customers and dealers. We had launched a new product from Native Instruments - Maschine JAM in Mumbai and Chennai in the month of October followed by a Universal Audio Tour in Mumbai, Bangalore and Chennai in November."

### Staying Up-to-date

Vivin gains competitive product knowledge by getting his hands on it first, checking market reviews and asking end users about their experiences. Also reading about technology from many audio magazines that are available online and in print, helps him immensely.



## MR-90B Wireless ENG Receiver



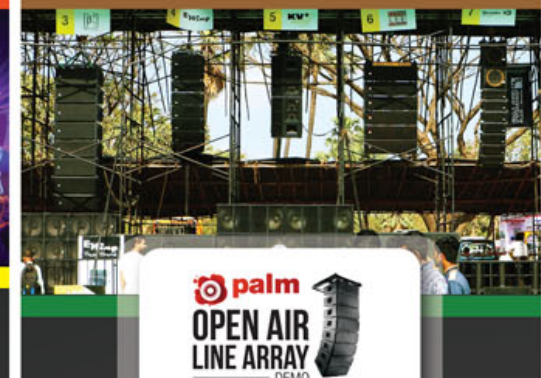
## Audio for Cameras

The MR-90B portable ENG Receiver features 100 preset channels in 24MHz bandwidth. Can be easily auto-scanned for a clear frequency & compatible by frequency sync to any MIPRO 24MHz bandwidth ACT handheld or bodypack transmitter. Dual-antenna true diversity receiving ensures signal stability without drop-out. Powered either by 6.5~12 V DC working voltage from the camcorder or 2 AA batteries with a detachable battery pack accessory.



ACT-70H Handheld Transmitter ACT-72T Bodypack Transmitter  
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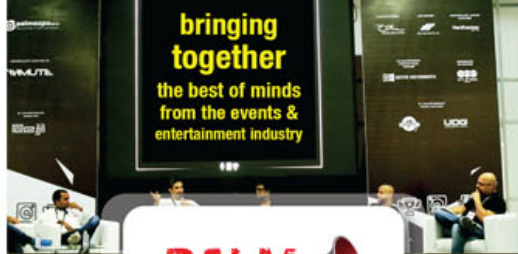
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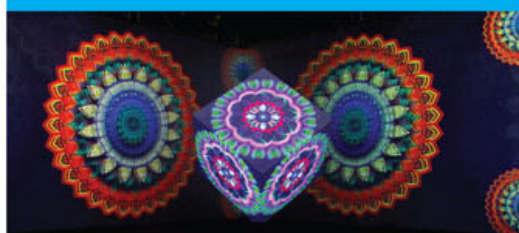
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## BIG STAGE DJ



stage  
sound & tech

So much has been written on big DJ festivals & arena gigs I was for once wondering what to write and the one thing that came to my mind was that over the past one year we have moved from the arena to the stadia.

The gigs have just scaled so much bigger and the tickets sales have done so too. Off course this has logically increased the demand for large size PA systems. But the point I would like to make is that what really goes behind the scenes to make these events a sonic success. Is a lot of planning for the event, surprisingly all done during the prep and not on the site.

### The Layout

This is the most important requisite for you to decide how much PA is required to do the job and thus defines 80% of the costs of the show; the rest of the 20% depends on the artist audio riders. When we receive the layout we are able to plot the speaker systems coverage and SPL across the venue so that the fans no matter where they are receive good sound & even coverage. This is not just for sonic purposes but the layout also establishes where the scaffolding towers or cranes need to be erected for putting the PA system. From here all the power distribution & amplification gets its demographic locations too.

### Riders

Responding to all the artists' technical riders is a part of the job & once finalized with them then the job of collating all the riders to-

gether to make one set for seamless changeovers is the second part of the job. Nowadays DJ's bring live acts with drums, percs & synthesizers as a part of their entourage and many even travel with a dedicated monitor engineer for all their stage requirements. Timecode, MIDI devices are extensively used to sync with their lighting and visuals and some shows are completely scripted musically from the first song to the last.

### Infrastructure

Using good infrastructure to erect the loudspeaker systems will always be the key to the success of any format of show, not just electronic music & I can't highlight this matter enough. I have noticed most events where the audio failed, was due to poor integration of the infrastructure. It is so important to use the correct scaffolding and get the height you need without compromising on safety for the event. Good infrastructure also means good safety standards; its important to note that you never compromise on safety no matter what & definitely no matter what unsafe things even your client makes you want to do.

### Power Distribution

Without this we are nothing, good clean power with ample power headroom too is the genesis of a good show and if you underestimate the power requirements for the event you will surely realize it in the last few hours of the event when the headliners are juicing out every ampere of the generator through your PA system especially the frequencies between

30Hz & 70Hz. Whenever I walk onto site the first thing I check even before checking the PA system is if the power distribution & generators were set up as per plan. Nowadays its important to also insist on a dedicated cable contractor because the gensets that come to the gigs have the most pathetic stock cables & no distribution & fake earthing mechanisms.

### PA System

What can I say here that would actually nail this right? Well probably three things. Quality, Power (Headroom), Coverage. Any of these three things missing in the equation and we have failed in doing this right.

#### A - Quality

What's the purpose of having tremendous amount of power if the system sounds distorted and the choice of turnkey system isn't good enough? The quality of the system plays a very important role here, not just sheer amount of boxes alone.

#### B - Power (Headroom)

In fact most of the mistakes are made here, where we mostly get good sounding systems to the venue with inadequate power/ number of boxes. This makes things extremely dangerous because many times you are putting a great sound system at risk by being over driven.

#### C - Coverage

Off course its practically impossible to provide near perfect coverage in a stadia no matter what anyone tells you as the demographic is too large

to achieve this. What would happen is that even for a 6db increase in the overall SPL of the venue in a certain location and you have to double the amount of the loudspeakers to achieve that. So when we plan for coverage it is the most calculated decision that we need to account for, as this is the sole decider of how many speakers & stacks do you need to achieve this job.

### DriveLines, Control, Calibration & Alignment

Everyone uses different methods to do this however there is a step procedure here it starts with good design, then the quality of source drivelines being provided to each of the speaker towers, Calibration is an aspect of tuning a PA system even without having to turn it on, this is sometimes extremely helpful when you have no time for soundcheck. Alignment using test & measurement tools is the final cut of the entire project and honestly once the system is time aligned and equalized then every step procedure you have taken in this small synopsis will ensure that you are sipping coffee at the console doing just fine staring at your control computer all in the green and the fans having a great time

At the end of the day we do this for the festival punters & the visiting engineers who have good stories to say about India.

Warren D'souza - Founder, Managing Director, & Working Member of Sound.Com  
#SoundGuyForlife  
#AudioEvangelist

## GLOBAL CITIZEN FESTIVAL INDIA

(Continued from page 43)

show culminated into the grand success that it was. This was undoubtedly the 'adventure of a lifetime' for all of us, and we are glad that the show turned out to be such a huge success."

Tony Smith, the Audio Head for Coldplay asserted, "Everyone has done a brilliant job. We would like to thank them for all their efforts. I really look forward to work with them again."

The Global Citizen Festival India was presented by Colors Viacom18 and Venky's, and was powered by UPL and NECC. The festival, collaboration between The Global Education and Leadership Foundation and Global Citizen, was hosted in Mumbai by the



L-Acoustics K1, K1SB, K2, KARA, V-DOSC and DV-DOSC were spread across the FOH position and delay positions across the venue to ensure optimum coverage and impact

Government of Maharashtra and was event-produced by Wizcraft International Entertainment Pvt Ltd. Other partners

of the event included: the United Nations; the Times of India Group; Google; Hindustan Unilever; Ola; Spykar; Make

My Trip; Taj Group of Hotels; Book-MyShow; Rishtey Cineplex; Voot; Radio Mirchi.



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# Turntables

## The DJ Platter

### Audio-Technica AT-LP120-USB

The AT-LP120-USB Direct-Drive Turntable System is a professional-quality USB turntable and software package. Rugged and durable to meet the demands of the professional use it provides consumers with the flexibility to enjoy top-quality vinyl playback and easily transfer records to digital media files and CDs. The AT-LP120-USB includes a direct-drive turntable and phono cartridge, PC- and Mac compatible software, a USB cable and other accessories. Designed to deliver superlative sound quality from LP albums, 12-inch and 7-inch singles and even 78 RPM records,



it features a heavy-duty cast aluminum platter with slip mat, and a balanced pickup arm with soft damping control and adjustable tracking force, anti-skating and vertical tracking angle (VTA) for optimum playback performance. The AT-LP120-USB is supplied with a precision Dual Magnet stereo phono cartridge with replaceable stylus. The included USB cable enables plug-and-play connection to a computer. The PC and Mac-compatible Audacity software converts the audio on a record to MP3, WAV or other format digital audio files. The Audacity software includes a host of audio editing features including equalization and noise removal.

#### Main Features include:

- Direct-drive, high-torque motor
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- Selectable 33/45/78 RPM speeds
- Professional anti-resonance, die-cast aluminum platter with slip mat
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- Balanced S-shaped tone arm with hydraulically damped lift control and lockable rest
- Built-in switchable phono pre-amplifier with RCA output cables
- Stroboscopic platter with speed indicator

- Forward/reverse operation and variable pitch control with quartz speed lock
- Popup stylus target light for easier cueing in low light

### TEAC TN-300

The TN-300 belt-drive analog turntable is housed in a stylish chassis containing an MM Phono equalizer amplifier with USB output. With both Phono and Line outputs being supplied, it allows the user to play vinyl into powered speakers or a stereo without a Phono input. Transfer music from vinyl records to your Mac or PC using the USB digital output. CD quality digital archiving via USB preserves your vinyl collection for use on a smartphone or Digital Audio Player.

With the included audio-technica AT9SE VM cartridge, the TN-300 sounds great right out of the box. An aluminum, die-cast, High inertia platter is also included. The TN-300 is the perfect turntable for any music lover from first time users to audiophiles with high-quality sound and sturdy yet stylish design.



#### Main Features include:

- Cabinet with multi-coated veneer and beautiful wood grain (TN-300-CH)
- Cabinet with glossy piano finish (TN-300-B, TN-300-R, TN-300-W)
- Manual arm lifter for analog playback
- Static balance straight type tone arm
- Anti-skating system
- USB digital output for transferring music from vinyl to Mac or PC
- Built-in phono equalizer amplifier for MM type cartridge (Line/Phono output switchable)
- 2-speed Turntable including 33-1/3 and 45 RPM for LP/EP record playback
- Corrosion resistant gold plated terminals

### Numark TTXUSB

Exclusively designed for the modern DJ, TTXUSB has a silicon rubber base that absorbs vibrations and dampens low end feedback and an interchangeable tone arm system that adapts to any DJ style.

The TTXUSB also delivers versatility and control as a result to an illuminated output bay; a built-in BPM counter and interchangeable S-shaped or straight tonearms. Its built-in USB connector simplifies connection to



a computer for fast and professional grade vinyl-to-digital transfer. As an added benefit, vinyl-to-digital conversion takes just a few mouse clicks due to the bundled EZ Vinyl Converter software; a new program available exclusively to Numark that quickly converts vinyl tracks directly to iTunes. Additional features include digital outputs for direct sampling, Key Lock and  $\pm 50\%$  pitch control for unprecedented mixing options.

#### Main Features include:

- World's first user-adjustable ultra-high torque (2.5kg-cm, 3.7 kg-cm, 4.7 kg-cm) direct-drive motor
- Patented interchangeable aluminum tone-arm system includes both straight and S-shaped tonearms
- Interchangeable pitch fader and button cartridges for club and battle style
- Blue illuminated display provides pitch, RPM, BPM and motor settings
- Aluminum target light and strobe with super-bright white LED
- Solid-core steel top and rubber base construction diminishes vibration and unwanted noise
- Anti-drag aluminum platter reduces excess rotating friction
- Precise cue, height and anti-skate adjustments
- Reverse and adjustable start and brake times
- $\pm 8$ , 10, 20 and 50% selectable pitch



*With the arrival of new DJ Turntables in the market alongside the existing vinyl decks, it can be difficult to decide what's right for you. Not everyone can afford a Technics, and with the advent of digital technology, there are many out there opting out of the vinyl game. But then there are others willing to shell out for a pair of vinyls for their build quality and durability. It is therefore best to get familiar with some key features - most important being constant speed of platter rotation, followed by a high torque feature. This focus of PALM technology fills you in with all that's on the 'platter' of some popular DJ turntables.*

ranges

- Key Lock to maintain any key while changing tempo
- Onboard auto BPM counter
- 33, 45 and 78 RPM with reverse
- Selectable phono/line level output (no ground wire required)
- Detachable power and audio connections, illuminated output bay

### RELOOP RP-7000

The Reloop RP-7000 is the solution for vinyl DJs and DVS users who are looking for a professional high-torque, club-standard turntable with extremely strong motor and a sturdy and indestructible construction. With its classy and scratch-resistant painted metallic finish the RP-7000 is suited for everyday club grind.



On the technical side, RP-7000 offers a highly dependable direct drive and improved even speed with digital correction that makes this turntable reliable and a device of precision.

#### Main features include:

- Quartz driven DJ turntable with upper-torque direct drive
- Adjustable torque (1.6 kg/cm - 4.5 kg/cm)
- Classy painted metallic finish
- Phono and line output (no grounding necessary)
- Direct connection of turntable and motor for best possible stability
- Adjustable start/stop time (0.2 - 6 Sek.)
- Metal housing
- Especially heavy construction
- Vertically adjustable S-shaped tonearm with anti-skating
- Pitch Range +/-8%, +/-16%, +/-50%
- Easy to exchange, freely revolvable needle illumination with super bright LED
- Quartz lock
- Safety mains switch

- Reverse switch
- Additional start/stop button for vertical positioning
- Rubber inlay for reduction of vibrations and ambient noise
- Removable mains and RCA cables
- Sunk-in connection cavity for easy case installation
- Shock proof feet
- Vibration-resistant base

### Stanton T.92 USB

The T.92 USB is a direct-drive professional turntable with built-in USB connectivity. The USB port and supplied software make it easier to digitalize vinyl recordings. With features such as key lock and a pitch range of  $\pm 12\%$ , the T.92 USB effortlessly fits in with a regular DJ setup.

#### Main features include:

- Professional Quality Turntable Featuring High-Torque Direct-Drive Motor
- Sturdy Construction for the Ultimate in Durability
- USB and S/PDIF Outputs for Easily Transferring Music from Vinyl Records to your Mac or PC
- Pitch Control Fader with DSP Key Lock (change tempo without affecting pitch) Selectable Range (+/-8%, 12%)
- Includes iZotope Music and Speech Cleaner
- Includes Audiophile-quality Stanton 300 Cartridge Pre-mounted on Headshell
- S-Shaped Tone Arm for Lower Distortion and Superior Fidelity
- 3 Playback Speeds (33, 45, and 78 RPM) and Quartz Lock
- RCA Stereo Outputs (Phono / Line Switchable)
- 2 Start/Stop Switches for Mix or Battle Setup
- Accessories include RCA Cables, Slip Mat,



USB Cable, and Dust Cover

- Dimensions [WxHxD]: 45.2 cm x 14.3 cm x 37 cm

### Denon DN S3700

TDN-S3700 Direct Drive Turntable Media Player and Controller is a cutting-edge single-deck portable DJ instrument that provides working DJs with a host of useful features for enhanced creative flexibility. As a result of its large 9" spinning platter design, the DN-S3700 offers both digital and analog realms. In addition to a host of advanced digital features including USB and MIDI control, the sleek and elegant unit includes a built-in authentic vinyl record for surface control driven by Denon DJ's High Torque Direct Drive Motor providing users with the classic and unmistakable feel of true vinyl.



#### Main Features include:

- High Torque Direct Drive Motor and Spinning Platter Design
- New Hybrid MIDI Mode - Outputs Time-code to Control Scratch Live and other DVS systems
- Fast Loading Slot-in Drive
- USB Device Hosting and Midi Interface Control
- Internal 24-bit Processing and USB Audio (sound card)
- 5 Superb Built-in Effects
- Waveform Display with Multi-line Text and Icon Support
- 3 Hot Starts, Auto Loop and Manual Loop Functionality
- 3 Platter Effects
- Deep Pitch Resolution & Key Adjust



## COLDPLAYING IN THE HEAT & DUST

They were here. Did you see them? Has your life changed?

If you did not see them - get the recording off VH-1. I have been told they will keep broadcasting it.

If your life has still not changed - sunny boy, this is the time to recognise your dad was right. You need a real job. Like in an office, with a tie.....

If you, like me has seen the future. Then you in the right place. A few columns ago I wrote that we were in the best of times and in the worst of times. Coldplay was the best of times.

In my opinion Chris Martin is a Star. Cut in the mould of the greatest Rock Stars of his generation. Amongst a crowd of 80,000 (reported) he connected to everyone there. He was best friend.... or brother or lover or whatever you wanted him to be. That is his gift and we all felt it that night.

Also in my opinion the rest of the band was about the most boring, average set of musicians who were supremely lucky to have befriended a Rock God. Lucky Them. Was that boredom or resentment on their faces? While Superstar Martin obviously was enjoying every moment on stage and ensuring that every one of his new best friends or lovers or brothers in India also enjoyed every moment, the rest of the band looked like they were going to burst into tears or just wanted to be somewhere else.

Now let's talk about the real hero of the evening. The Staging.

The Sound - Impeccable. All the work and the attention to detail paid off. The Golden King was transmitted to each one of us there. The unique timber of his voice sitting on our shoulders.

As for the rest of the guys - the PA made them actually sound good.

The Lighting - Vast. Who says that a massive inventory of cheap Chinese lights doesn't look great. Who would have thought that DMX delays and many cylinders of carefully released smoke can fill a space with shock and wonder. I learnt a huge lesson that day.

The Staging. That vast flying wing of blinding light flying at you. The confetti, the balloons, the bridge and even more confetti. Simply WOW.

Everything put together makes me feel that tomorrow's Global citizen has much to look forward to.

Clean Toilets, Digital Currency, No corruption and every time somebody

in the presence of our betters. But mama - we were good children right? Nobody got hurt or was led astray.

I was led astray. After ages some excitement crept into my cynical old bones. I danced, bad leg and all, and still had energy to walk to the car.

I am a minimalist. I believe that great lighting is about the minimum darkness we displace. One carefully placed spot light in a beautifully timed fade, to me is orgasm. In the theatre my mentor would yell at me. 'I don't care how big the show. You don't need more than 15 dimmer channels - as long as you have a finger on each one of them'

Even in a Pink Floyd Concert with its amazing light shows - when you

Fortunately for us, most of the DJ's are not much better looking than Roger Waters. Can I be mean and say - perhaps even including the ladies!

So here's your chance to stand up and give those incredible audiences 'Something to See'

All the advertisers in this issue offer many tools in that journey. Coldplay has taught us that being a maximalist with cheap Chinese lights is the new way forward. I finally understood why people would invent boxes that control mountains of DMX universes. Ok sorry - I was slow - but I got there!

Break out of the square box stages. Fly off in a hundred new directions and bring back the stages that immerse you in light, shower you in fine smoke and fill all the air around you in tightly controlled LIGHT.

The beat is steady and easy to bounce off. The girls are pretty and everybody is moving in chic convulsions. Come on we got Mr Modi to sprout 'Too cool to show up for a Nobel, Dylan'

Step up and take the space before these Global citizens come yapping on your heels.

*(The views expressed by the author are his own personal comments and the magazine does not subscribe to them).*

**Coldplay has taught us that being a maximalist with cheap Chinese lights is the new way forward. I finally understood why people would invent boxes that control mountains of DMX universes.**

powerful wants to make a connect to India's unbounded youth - we can celebrate these gifts with a huge concert.

There was so much around the concert. So much to read, so much fuel, so much hype. Like good little children being groomed to be global citizens, concert mama also advised us on what to wear - loose comfortable clothing. What to pack - water, salt tablets, nutrition bars. We were told to bring cash. Not cards. Apparently the ringing of cash registers and the airwave consumption of card machines would adversely affect the technology of the evening. Hopefully next time we will learn to behave

break it down it is always so simple. Every song has ONE big look. That you can never forget. Against them you have the Rolling Stones with their jumble of joys. But the Coldplay light guy had it all. Simple stuff like in the obviously lit 'Yellow' to the complexity of 'In My Place' From Garage Band to Outsize stadium in a switch. Break it down guys. Watch it over and over. It was lesson in showmanship. What can I say - Respect!

This issue is all about Outsize DJ's. This is a Visual Designers dream. Like the self effacing Pink Floyd once said - 'None of us are in the Robert Redford looks department, so we got have our audiences see something'



The latest state-of-the-art laser techniques showcased at **PALM 2017** with laser beam effects, laser screen effects, laser graphics effect, and laser text effects. These demo sessions will display different laser effects systematically in a holistic lighting design graduating from effect to effect. The Lighting Hall at PALM 2017 will be the place to be to trip the light fantastic.

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# ASPIRING TO BECOME A BIG STAGE DJ?

— Vipin Pungalia, Director Professional Segment, Sennheiser Electronics India Pvt. Ltd.

In today's busy going life, people thrive to visit places with great music as a result of which many people aspire to become a Disc Jockey. There are several types of disc jockeys. Radio DJs who introduce and play music that is broadcasted on FM, digital or Internet radio stations. Club DJs who select and play music in bars, nightclubs or at parties. However, with concerts, live events and gig successfully attracting the public, especially the youth, big stage disc jockeys are becoming the most popular amongst the lot.

To create a memorable experience, it is very important for the disc jockeys to use the right equipment. As music technology has progressed, DJs have adopted different types of equipment to play and mix music. As a result of which, DJ mixer is one of the main equipment used by DJ's around the world. A DJ mixer typically mixes a sequence of tracks to make it appear as a single track. While choosing the tracks for the mixer it is essential to keep in mind the genre of songs you want to go ahead with and maintain a synchronisation between them. The DJ should also choose tracks partly in accordance to the activity on the dance floor. If the dance floor becomes less active, the DJ shall make a judgement as to

what track will increase dance floor activity. This may involve shifting the tempo or changing the general mood of the set.

Apart from the DJ mixer, there are many other tools used by a disc jockey. As soon as we think of a DJ, the first thing that comes to our mind are the big funky headphones. DJ headphones have to be no less than a perfect assistant, by blocking outside noise, and by keeping the flow with intuitive operation and sturdy design. They have to sound great and muster a high maximum sound pressure level. In such cases, the best recommended equipment is the wireless noise cancellation headphones which provide a better quality and hence a great show. Since the DJ's have to wear the headphones for a longer duration of time, the headphones should be comfortable and light-weight so that the jockey is able to enjoy his show as much as the audience.

Whether the venue is large or small – the music is going to be loud! Hence you have to have the right equipment to be able to mix. The higher the sound quality, the more detail and frequencies are audible and hence, more connected you are to that piece of music and what that artist was feeling when they made the track. With DJing today, there is

layering and programming music in an individual unique manner grabbing people's attention and letting them hear their favourite music in a way that they've never heard before. You need to have that detail in the music, to have that emotional connection, to be able to give that back.

There's also a play of stage lights that goes into creating that magical experience. LED lighting, and other special effects such as laser, fog machines, among others can be used to enhance the scene. A great DJ is also a great showman. Year after year, audiences will continue to appreciate DJs who give their best on stage, and entertain the crowd. The truth of the matter is that you don't need a big team and millions of dollars to build an awesome experience – with a bit of creativity (and perhaps a few willing collaborators) you can add some real pizzazz to your sets, and create an amazing experience for your fans.

However, with DJing comes a lot of travelling. Some of the world's top DJ's including David Guetta, Afrojack, Skrillex among others use their laptop on-the-go with comfortable, light-weighted and noise cancellation headphones to provide for a memorable experience. They also use some of the tape emulation plug-ins. Like in an interview, David Guetta gave a

brief on how he works. The way he routes his synths, drums, effects and bass all in different groups for better clarity and giving them the analog feel.

The best thing about being a DJ is making people happy. There is nothing like seeing people get up from a table to dance or the expression on their face when they hear a song they love. Disc jockey is an art form, an expression, a way of life. It may not be enough to simply have hot tracks, the best DJing techniques in the world, exclusive (re)mixes to play in your sets, or an awesome website. If you want to stand out, take time to consider how to develop a memorable live show that complements your DJing prowess – keep reading for inspiration and ideas.

However, not everything stated above are steadfast rules. Every DJ has their own share of experiences and techniques, the only thing to keep in mind is that when the show goes down, you should be happy and satisfied with what you have done. Creating an environment for people to groove on for a longer duration of time can be a task in itself, but amidst all this one should never forget to enjoy themselves while creating a memorable performance for your audience. So, happy performing!

## GOING BIG WITH PLAYBOY

(Continued from page 24)

create some fantastic effects," says Ward.

The lighting imagery for the whole venue has been provided by SONIC-SSS.com and the lighting inventory includes the MA Grandma lighting console, 2 Haze machines, 5 smoke machines, 8 binders and 150 moving heads. "As this club was over a year and a half in the making, I had ample time to manufacture, produce and ship all the lighting screens and effects to Mumbai, from my factories in Guangzhou. We had sufficient time to implement my design with the products."

"Dave has actually designed it like a special effects show, plus it is not the same every night. Every time you will come in here, there will be different show. So that is what is unique. We have not allowed monotony to settle in," informs Bakaya.

Ward is effusive in his praise for Bakaya: "Gaurav was one of the best

people to have as your link to PB lifestyle; his professionalism and understanding of international quality F&B franchises was second to none."

The Playboy SuperClub is currently an invite-only outlet but in future, plans to do a lot of stage events on the lines of Sunburn and promote a lot of inter-

spend good money but also create the right energy and the right vibe in the club. Moving forward we plan to do a lot of events with high profile stars like David Guetta etc. so we may at that time ticket the events."

By the end of January the promoters intend to move towards a four day

**The central dance floor truss is shaped like a square with a cylindrical LED 50x50 pixel chandelier in it, which actually moves towards the DJ box tilting at 45°, becoming the crown of the DJ box**

national DJ talent, which is when they may ticket the venue. "Currently, we are working with the top promoters in the country, like Dino Morea and Butter Events, and we only allow entry to those on the guest list. For entry to the VIP Lounge, you have to be a member. If we call ourselves a luxury night club, then the audience must also reflect that identity. We have basically adopted a profiling mechanism to get in the who's who of the city, which can not only

format - Wednesday, Thursday, Friday and Saturday and make it a 7 day format down the line, with the focus being more towards live programming on the weekdays, and DJ driven on weekends.

"I have been involved in this industry for 18 years now and have worked with venues like The Ministry of Sound and Blue Frog; I have done large format night clubs all my life in India and abroad, but this venue is definitely state of the art and truly an international venue. There

is nothing like this in this country atleast. We have worked very hard with the team for making it a very tech heavy space because the interiors tend to lose their charm after the first 6 months to 1 year, but here we can keep programming and changing and keep the whole flavor alive. The idea is to redefine the night club space in the country. It was always the intent. We have a great space and we need to have great programming and great content. So eventually it is going to be about good events, good promoters, good DJs, great food, great experience, and India is luckily now opening up to a number of international artists," concludes Gaurav.

The other Playboy offerings in the country include a huge 30,000 sq.ft. beach club in Goa called the Sunset Ashram, the Playboy club in Hyderabad, the Playboy Beer Franchisees in Pune and Hyderabad and a café in Gurgaon. The company has plans to set up another flagship club, on the lines of the Mumbai club in Samrat Hotel, Delhi, in the near future.





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# “Indian DJs are tech savvy” - Reji, Director, PALM DJ Championship

*Marketing mantras for DJs to scratch ahead of the pack*



Reji Ravindran with the PALM DJ Championship 2017 team. Joining the team was Ashutosh - a 2016 championship winner. From l to r: Anil Chopra - Founder, PALM DJ Championship; DJ Reji - Championship Director; Smita Rai - PALM Marketing & Features Project Head; Ashutosh Tawade - first runner up, PALM DJ Championship 2016; Karan Bhardwaj - Manager, PALM DJ Championship 2017

With a musical career that has spanned more than 18 years, **DJ Reji** has donned various hats in the alternative and electronic music scene in Mumbai – from being a DJ and Turntablist to an Educator and Curator. He has been a driving force behind PALM DJ Championship since 2011, motivating young minds and making contributions to the DJ industry in a big way. He believes that the Championship is the first breakthrough for the participants, propelling them to the next level. In this interview with **Somya Kedia**, he shares insights as to what to expect from the 2017 championship, while also offering a perspective of the latest DJ industry trends and tools and the DJ market as it continues to evolve.

## Growing DJ Industry

DJ industry is expanding exponentially and the growth rate has been phenomenal. Talking about the industry expansion, Reji observes that as the industry continues to evolve, the demands for technology, equipments, expertise and specific services have also witnessed a magnificent growth. Adding impetus to the industry are amateur DJs and learners who are embracing DJing as a fulltime profession.

## Quantum Leap in Technology

Impressed with the technology in regards to the DJ industry, Reji believes that the year 2015-2016 witnessed a lot of technological innovations. “For example, Ableton made available the Link technology, to the wider music-making community as a built-in feature of a growing number of iOS apps, and in a full update with Ableton Live. Link

works under the hood allowing the user to instantly play in perfect sync with multiple instances of Live as well as a growing number of iOS apps. Where technologies are concerned, earlier the approach was restricted but now brands have made it open source and technol-

“DJ technology by force of individuality and idiosyncratic artistry is graduating to custom built consoles. The modularity of the components allow bespoke consoles assuring the dj of delivering his peculiar artistry.”

– Anil Chopra, Founder, PALM DJ Championship



ogy has advanced tremendously, making it easier for users. Also, Pioneer has been performing exceptionally and end of 2015 released new software – rekordbox dj that caters towards Pioneer's entire range of MIDI controllers."

"DJ technology by force of individuality and idiosyncratic artistry is graduating to custom built consoles. The modularity of the components allow bespoke consoles assuring the DJ of delivering his peculiar artistry," reiterates Anil Chopra, Founder, PALM DJ Championship.

However Reji rues that despite this leap in technology, India still remains relegated to the old gear.

"The problem is that most of the brands are not available in India. It's the mistake of the distributors and their lack of vision. They believe that the end-users are neither well-informed nor tech savvy, while the fact is that the crowd is well informed, aware and knows how to use these products," says Reji.

## DJ Industry - Trends

There have been a lot of developments taking place in the DJ industry. Reji brings forth the new and 'need to know' trends that will radically transform businesses. He stated that, electronic live performances have been gaining a lot of momentum. It is all about making music live. In addition, for instance, creating videos with lyrics on YouTube making it a sing along tool is now trending. Simple yet effective, the trend is also translated into live performances. While performing live, the same video playing at the backdrop would be displaying lyrics, he illustrates.

- There are companies that are helping artists with the merchandise. One can print t-shirts, stickers or similar things and such kinds of marketing tools prove effective.

- Though Bollywood music still reigns supreme, DJs are also now engrossed in music genres like future house and tropical house. Being self-sufficed with our

"I showcased my talent at PALM Expo and won a Turntable as the first prize sponsored by Vardhaman.

By practicing on the turntable, it boosted my confidence further more.

I am a professional Turntablist now. The PALM has been instrumental in promoting DJ talent via the DJ Championship."

– Hitesh Khuman, winner of PALM DJ Championship 2012

own music industry, the need to follow International trend does not arise. Bollywood music is a very dominant factor, and then follows EDM, he further adds.

ing one's own niche. One should be well versed in the kind of music they play and creating a tag cloud via comprehensive research on other artists and their labels can go a long way.

"One cannot model oneself by looking into someone else's success story. It's all connected to finding one's USP, where one needs to reach, and who they need to work with and lastly what would be the right steps to go ahead and take it from one point to another."

## DJ Championship - A Boost for Participants

With the best talent the country has to offer, DJ Championship has been instrumental in promoting and nurturing the upcoming DJ Talent since 2011, while also brining the best DJs in the country on to the common stage. DJ Reji, DJ Championship Director has contributed a lot of energy to it that has added significantly to its success. In his opinion, the Cham-

"The moment of taking the prize in my hand was like a dream come true. I can say this was one of a kind of achievement for me that I won at the national level."

– Amit Viras, winner of PALM DJ Championship 2016

## Criteria for Judging the DJ Championship

At the DJ Championship, the criteria for judging is based on: Track selection; Technical skills; Creativity; Confidence and Crowd Response. "Also, this year we will be having a preview of the participant's previous work which would be taken into consideration while choosing the contestants," says Reji.

Reji perceives that since every year,



Aspiring DJs throng the DJ Championship venue; the championship has been instrumental in promoting and nurturing upcoming DJ Talent since 2011

## Marketing oneself as a DJ

With millions of DJs in competition, reaching the top can be a daunting task. The need emerges, where every DJ needs to carefully examine their marketing strategy in order to be successful. Today, it takes more than just good music and tunes to stand out in the music industry. Reji studies the latest marketing strategies of the industry and highlights that DJ Chetas has done exceptionally because his planning has been very clear, well decided, calculated and the placement is right. "He hosts a 2 hour show on 9XM every Friday and Saturday called House of Dance. In addition to that, his mash ups and remixes are available on podcasts; which is an efficient way to market himself."

According to Reji, the same strategy may not serve the purpose for a house or a hip-hop DJ. The key to success is find-

ing the music trend changes and the Championship is a boost that everybody needs. He asserts that most of the DJs who come for the Championship are mostly young enthusiastic kids who would want to be recognized and showcase their talent in front of as many people as possible.

"The participants come from all over the country and this platform provides them an opportunity to go ahead and it works as the first breakthroughs for anyone. DJ Championship gives new talent an opportunity while also laying a lot of emphasis on the prizes. The main focus is that the winners go home with top quality industry standard gear that will take their craft to the next level. "I know a lot of participants who really look forward to the PALM DJ Championship as it is their highlight of the year and it will give them an opportunity to break their personal glass ceilings"

the music trend changes and the Championship has witnessed newer forms of music. "Every year, the quality of talent that participates in the Championship takes a new leap, plus everyone is taking the gamble with scratching," he says. Reji firmly believes that besides the Championship, there can be further grooming of talent of the ten finalists by arranging a Bootcamp as winners need additional support to market themselves in the industry.

Reji lifts the spirits of the participants and directs them in the right way. He shares that they should give their best and should be well aware of the latest trends. "By staying abreast with the knowledge of technology and the kind of equipment we provide will help them immensely as they can go ahead with confidence when they perform," he concludes.

"If you prepare and work very creative, it will help you win some new and exclusive stuff on your rider. Being a Palm DJ winner earns you lot of bookings in heart throbbing clubs and amazing festivals. I also got a management contract from two agencies "AMA" and "Redalert Team"."

– Abhishek Pardeshi, - winner at, PALM DJ Championship 2015



## MUSIC MONETIZATION?

Last year, the Unequal Music column in the Nov-Dec issue of the mag touched on the topic of alleged misappropriation of funds by the IPRS and IPL; rewind to last year's report – "The Ministry of HRD had set up, on 27 February 2014, an Enquiry Commission headed by retired Chief Justice of Punjab and Haryana, Justice Mukul Mudgal, to look into the affairs of IPRS because the ministry had prime facie evidence that the record labels who control both IPRS and PPL may have colluded to ensure that the rights of the lyricists and composers were siphoned off by PPL and even some third party private companies. To avoid the Enquiry, on June 2, 2014 IPRS withdrew from the Registrar of Copyrights its application for renewal of its license to operate as a Copyright Society and went to court against the Enquiry Commission disclaiming its status as a society. Fortunately, on 13 March 2015, the Chief Justice of Maharashtra ruled against IPRS, whose claim amounted to, he said, "adding premium to dishonesty", and that the Government was well within its right to audit the accounts of IPRS from 1996 to 21 June 2013. IPRS then filed a Special Leave Petition in the Supreme Court. On Friday 11 September 2015, the Supreme Court dismissed the SLP of IPRS." When we last reported, the ball was in the court of the Ministry of HRD and the question was: how fast and effectively would the HRD ministry?

Fast forward to December 2016: The Centre has constituted an enquiry to probe into allegations of malpractices against the Indian Performing Rights Society (IPRS). "Since there were allegations of malpractices against the IPRS, the Central Government has constituted an enquiry against it, which is currently in progress," said the Department of Industrial Policy and Promotion (DIPP), Indian

Performing Rights Society (IPRS) and Phonographic Performance Ltd. (PPL) were registered as copyright societies under section 33 of the pre-amended Copyright Act, 1957 for carrying out copyright business in the field of musical and literary works and sound recording works respectively. However, the said registration was over with effect from June 21, 2013 – one year from the date of enactment of the

Sound Design for the songs are by DJ Phukan & Sunny M.R.; Mixed and Mastered by Shadab Rayeen at New Edge Studio with Abhishek Sortey as assistant and Ashwin Kulkarni, Himanshu Shirlekar, Lee Slater and Kaushik Das as the recording engineers.

The new entry this month was 'Nashe Si Chadh Gayi' from *Befikre* at #2. Though the film bombed at the box-office, the peppy tracks of

Recorded under the Zee Music Company label, the songs 'Bapu Hanikarak' at #7 and 'Dhaakad' at #9 have hit the right chord with the audience. The sound crew for the songs include sound design by Shajith Koyeri (Bapu Hanikarak) and Sunny M.R. & DJ Phukan (Dhaakad); Mix & Mastered by Shadab Rayeen and assisted by Abhishek Sortey at New Edge studios; Recording Engineers : Kaushik Das, Ashwin Kulkarni, Himanshu Shirlekar and Aaroh Velankar

It may just be a matter of time before we hear some of these songs on the little box as an ad jingle or a television title track. The reuse of Bollywood-songs in India is legion. Wrigley's used 'Ek Ajabee Hasina Se' from the Rajesh Khanna starrer Ajabee to launch its Doublemint brand, while the super hit daily soap Bade Achche Lagte Hai chose a namesake song from the 1970s movie Balika Vadhu. Saffola with Akele Akele Kahaan Ja Rahe Ho, Tanishq with Dil Deke Dekho, Cello Pens with Chitthi Aai Hai... the instances are innumerable.

This again brings us to the rights of the composers/lyricists and creatives behind the songs. Music Labels have found one more avenue to monetise their library of songs, but what about the composers and lyricists. "The purpose of IPRS is to issue Licences to users of music and collect Royalties from them, for and on behalf of its Members i.e. the Authors, the Composers and the Publishers of Music and distribute this Royalty amongst them after deducting its administrative costs," but with the body supposed to be looking after the interests of its members embroiled in legal cases of misappropriation of funds, the members woes continue as we move forward to the next year.

**"So to cut a long story short, the truth remains that even after a year, there hasn't been any constructive progress and it sure looks like it will be quite some time before this country's composers/lyricists get justice and can monetise the fruits of their labour."**

Copyright (Amendment) Act, 2012 on June 21, 2012.

"Both the societies have applied for re-registration before the Central Government under Section 33 of the amended Act within the prescribed time limit and their request for re-registration as Copyright Societies is under examination," the DIPP said.

So to cut a long story short, the truth remains that even after a year, there hasn't been any constructive progress and it sure looks like it will be quite some time before this country's composers/lyricists get justice and can monetise the fruits of their labour.

Another issue of the magazine and we are back to scrutinizing the set of songs that are ruling the charts.

At the time of going to press, songs from Karan Johar's 'Ae Dil Hain Mushkil' were dominating the charts, with 'Channa Mereya' basking in the glory of the #1 position, while the quirky "Break up Song" and the title song of the movie "Dil hain mushkil" were at #4 and #6 respectively. The

the movie managed to set feet tapping. The other song from this movie which has made it to the list is 'Ude Dil Befikre' at #5; music by Vishal-Shekhar and recorded at Yashraj Studios under the YRF Music label.

Though Amit Trivedi came out with another beautiful set of songs for the movie Dear Zindagi, only the light hearted and warm track "Love you Zindagi" managed to find a place on the music charts this month. At #3, the song under the Sony Music label, has been recorded by Shadab Rayeen, Assisted by Abhishek Sortey & Firoz Shaikh at AT Studios and also mixed by Shadab Rayeen at A T Studios & New Edge Studios in Mumbai. The song has been mastered by Donal Whelan of Masteringworld, U.K and Sound Design is by Debasish Mishra.

Close on the heels of *Ae Dil Hain Mushkil*, Pritam seems to have ended the year on a high note with some rustic Haryanvi music for the Aamir Khan starrer *Dangal*.



# GETshow 2017

## Introduction

With 3 pro-sound halls (incl. 1 international brand hall), 3 pro-light halls, 1 outdoor line array stage, and a new added "stand booth area", GETshow 2017 will be held from Feb. 27th-Mar. 2nd in Poly World Trade Center (PWTC) Expo, Guangzhou, China. The total scale will achieve to 81,300sqm, over 70,000 visitors and 630 exhibitors from both at home and abroad will attend GETshow 2017.

GETshow is an exhibition held in China industrial base—Guangdong province, in which 80% of nationwide entertainment equipment enterprises centralized. Our closed sponsors including many national brand enterprises who sponsored the national upmost events such as Olympic Games, the Asia Games, World Expo and the Youth Olympic Games, G20 Summit Meeting, etc. Many famous international brands choose GETshow as their new products launching platform.

GETshow 2017 will insist on our green exhibition concept of high-end silent show. Furthermore, we'll have two innovations: firstly, for more internationalized, we'll extend the exhibition time until

evening; secondly, the GETshow opening dinner, which will be upgraded to "GETshow night", will present you an infinitely passionate pro-sound and lighting show.

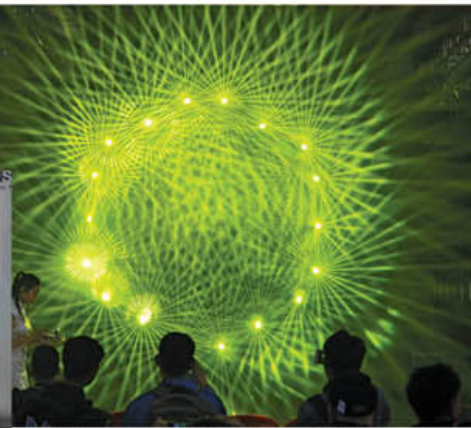
Herewith we sincerely invite you to visit GETshow 2017!

## Focus

1. Asia's most influential pro-light & sound exhibition
2. First China high-end no noise exhibition
3. From China Entertainment Equipment Industry Base
4. Over 630 international exhibitors
5. New products launch event
6. All of the world's best-known brands in a hall
7. All-day outdoor line array for live sound show
8. The first evening show in china

## Exhibits Range

DJ Show, Stage Audio System, Card Package KTV, Public Broadcasting, Conference System, Stage Lighting, LED Display, Laser Gear, Microphone, Amplifier, Stage Peripheral Device, Intelligent Lighting Control System etc.



GETshow 2017 will be held from 27th Feb to 2nd March in Poly World Trade Center (PWTC) Expo, Guangzhou, China



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The trade fair commenced in its new location in halls N1, N2 and N3 at the SNIEC



The PLNS Shanghai Lighting Hall in N2

# Prolight & Sound Shanghai 2016

*Shanghai PL&S showcase for major Chinese brands*



Vision X Network provided an exclusive opportunity for business networking between exhibitors and buyers



The Audiocenter booth at the show

Shanghai Pro Light & Sound, undeniably one of the top pro audio expos in China, returned to the Shanghai New International Expo Centre along with its much larger sister show - Music China. Since its inauguration in 2003, the Shanghai PL&S has grown year-on-year and has today become an influential expo in China's domestic pro audio market, and is gradually instituting itself as a 'must attend' show on the Chinese exhibition calendar.

Held from 26 – 29 October 2016, and organized by Messe Frankfurt and INTEX Shanghai, Pro-Light and Sound Shanghai turned out to be a lively affair, with

visitors from across the globe visiting the expo to source their pro audio and lighting equipment needs.

## Relocation to New Halls

The 14 year old trade fair commenced in its new location in halls N1, N2 and N3 at the SNIEC. The move to the bigger halls was to allow PL&S Shanghai to accommodate more exhibitors from China and abroad in the 38,000 sq.mt. area

The 2016 PL&S boasted of more than 561 leading audio and lighting brands and companies who gathered to present their latest products and advancements in the industry. No surprises there that

majority of the exhibitors were from the Guangdong Province.

Many exhibitors welcomed the decision to relocate to halls N1 – N3. The larger exhibiting space in the new halls enabled them to fully make use of their booths to showcase their innovations. It also created a more spacious area and welcoming atmosphere for them to conduct business.

Returning exhibitor **Sounding** had booked a booth on the expo floor as well, besides its own large independent space outside the halls, was pleased with this arrangement as it brought a large variety of new customers to their booth.

Marketing Manager of the company, Mr Chi Li commented: "The relocation has played an essential role in enhancing the crowds here. The new hall allowed larger exhibiting space for us to display our products and have meetings. Our booth overflowed with new buyers every day and we were able to meet many local and international wholesalers, agents and representatives of large projects. We are content with the results."

Other prominent returning exhibitors included **797Audio**, **Antari**, **Apogee**, **Audiocenter**, **Christie**, **DGX**, **DPA**, **ETC**, **Fidek**, **Focusrite**, **GIS**, **GLP**, **Harman**, **Jolly**, **Kling & Freitag**, **KRK**, **Maquinas Iberica**,



**Nexo, Novation, Redx, Rupert Neve, SAE, SE Electronics, SE Audiotechnik, Shure, Superlux, Takstar, Tascam, TW Audio, Universal Audio, Vue, Yamaha and Yes Tech.**

**SE Audiotechnik** came to the show to increase its brand exposure through highlighting its middle to high-end loudspeakers in the line array, while **Beijing Wincom Technology Developing Co Ltd** also regarded the show as a suitable platform to reinforce their brand image and promote their new Boxer 4K30 projector.

**SAE Audio**, another loyal exhibitor at the Shanghai show introduced its new range of Class-D amplifiers named the Suitcase series, while the Soundking Group's marquee structure located outside the entrance to the main audio halls, displayed their flourishing portfolio of products which included brands like Cadac, Studiomaster, Kling & Freitag and Carlsboro, besides their own Soundking brand.

### Attendance Figures:

Exhibitors and visitors were in an optimistic mood and the first day of the expo opened to a packed registration hall. With a bigger scale and enhanced features, this year, the show reportedly attracted 26,527 visitors across the show's four day run, marking a 4.2% increase in attendance from 2015.

ous by their absence in Shanghai. Only a couple of seemingly serious buyers from India could be seen making their rounds in the otherwise busy aisles. This is possibly because of the dominance of the MI sector at the show. Music China boasted of 1,909 exhibitors across 10 halls - W1 to W5 and E1 to E5, and a whopping figure of 90,125 visitors - a record-breaking 12% increase in visitor numbers.

### PL&S Shanghai debuts Recording and Production Zone

With the change in concept and location, this year's PL&S Shanghai opened up the recording and production market for the industry by introducing the first ever Recording & Production Zone in hall N-1. The zone was located close to the Electronics Instruments Hall of Music China with an aim to offer a synergy effect and interactive movements of the related sectors. This zone showcased products including output equipment, recording and monitoring equipment and external and functional equipment.

Leading brands from the recording and production industry who showcased their new innovations and expertise at the Recording and Production Zone included **Ableton, ADAM, AKG, Apogee, Avid, Audio-technica, BBL, Behringer, Beyerdynamic, Canare, Cymatic audio, DBX, Sennheiser, Soundcraft** and many others.



The Concert Sound Arena featuring the outdoor line array demonstrations

variety of seminars, live demonstrations and a sound studio was organised concurrently to deliver a well-rounded business platform for the burgeoning recording market segment. Concurrent events highly focused on sound production included:

The Recording Technology Forum which discussed topics like analog-to-digital conversion in studio recording; The 2016 International Sound Technology Forum for Film and TV Production co-organised with the Audio Professional Committee of the China Society of Mo-

ing Course had Mr David Ludz, keynote speaker from Kling & Freitag GmbH share his insights on line array technology.

Continuing the success of last year, **PLSS Lab - VR Sound** returned with live demonstrations of the "VR sound" combining 3D sound technology and Electronic Soundfield Technology.

Vision X Network provided an exclusive opportunity for business networking between exhibitors and buyers.

As in the past, the **Concert Sound Arena** featured the outdoor line array demonstrations. Like previous years



Satisfied with the positive results, Ms Judy Cheung, Deputy General Manager for Messe Frankfurt (Shanghai) Co Ltd remarked: "The substantial number of major brands and visitors at Prolight + Sound Shanghai this year reflect that the industry is welcoming the new changes of our show. As the organiser, we will continue to upgrade our comprehensive platform in tandem with the needs and challenges of the market and uphold the fair's outstanding position in the Asian pro audio and lighting industry."

However the big names from the pro audio industry in India, who normally make it a point to attend Messe's Frankfurt or Guanzhou show, were conspicu-

According to Mr. Ken Chang, Marketing Manager of **Digital Media Technology Co. Ltd. (DMT)**, one of the exhibitors from this new zone, "As recording and production products are one of DMT's core businesses, we are hoping to connect with target customers from professional recording, audio and music production sectors at the Shanghai show, and to increase the exposure of Native Instruments in the Eastern Chinese market."

**Beyerdynamic GmbH & Co. KG**, who came to the fair to showcase their drum microphones, was happy with the global business leads the zone helped achieve.

To complement the new zone, a



tion Picture and Television Engineers (CSMPTE) which addressed the technology and application of recording and production equipment for film and television; Sound@PLSS Studio where participants could create their own mixes and sound by using the latest recording products in this product demonstration zone.

### Extensive fringe events

Running in conjunction with the show was a schedule of engaging fringe events which included a wide variety of seminars, product presentations and live demonstrations.

**The VPLT International Audio Train-**

the demos were divided into two sections - Sound of China - for Chinese brands and Sound of the World area for international manufacturers, this year, 15 global brands, featured their line arrays, providing a complete overview of their systems. Though intermittent rain showers put a dampner on this event, it still remained a popular attraction.

This year's Participating brands included **Audiocenter, Coda, CPL, dbk, FS Audio, KV2, Next, SE Audiotechnik, Tasso, TW Audio, Verity, VUE, YME and Zsound.**

The next edition of Prolight + Sound Shanghai will be held from 11 - 14 October 2017 in Shanghai.



## NEW DISTRIBUTION PARTNER FOR OUTLINE IN INDIA

Outline s.r.l. has announced the appointment of Global Pro-Audio Management as their exclusive distributor for the Indian sub-continent.

The New-Delhi based distribution company was founded by Gaurav Malvai in 2010. The move into pro-audio distribution was an extension to his activities as a high-profile DJ and music producer. Growing demand for his products and expertise subsequently generated an opportunity to add a sales service to his numerous markets and the company's distribution portfolio has

continued to expand.

Malvai commented, 'One of the most important things for me is that Outline's extensive product range gives me the chance to develop relationships in every market here from large events and live productions through to all sorts of installation work. GTO and GTO C-12 are ideal for our domestic and international production markets while the Mantas range is so versatile that it will do very well for us. I'm also very excited about the new Vegas range which has almost unlimited potential in the Indian sound installation market'.

The company's investment in

Outline is underway.

'I'm in the process of phasing out the existing products in my own rental inventory and replacing them with Outline. Their product range gives me the flexibility and modularity that the rental division needs and of course it will also provide many opportunities to showcase these amazing products,' Malvai added.

**Gaurav Malvai with his new Outline inventory**



## D&B AUDIOTECHNIK INTRODUCES NEW SPEAKERS FOR PERMANENT INSTALLATIONS

d&b audiotechnik recently introduced the 24S and 24S-D point source loudspeakers for permanent installation. It is the latest additions to the established xS-Series that will reset the performance level for installation of the specific point sources along with the xA-Series and it features redesigned front grills making it more unobtrusive than before.

Wolfgang Schulz, Installation Product Manager, d&b audiotechnik said, 'The 24S, 24S-D and 21S-SUB are designed to set and forget. They meet the exact day to day demands of permanent installation with minimum fuss and maximum

vertically or horizontally. By separating the LF drivers, it achieves constant directivity control in the same plane as the dipole down to approximately 500 Hz. The result is a powerful single box solution that avoids the transmission of energy into the reverberant field, and increasing gain before feedback when working with open microphones. With a frequency response extending from 55 Hz to 18 kHz, 24S and 24S-D is a solution for full range application.

With this extended bandwidth, the 24S and 24S-D point source loudspeakers are a stand-alone option, while for applications with bass heavy

24S and 24S-D deliver an improved low frequency reproduction for a full range point source and preserves sight lines overcoming rigging and placement restrictions.

'The 21S-SUB is the perfect option for any install when bass heavy program material is the name of the game and is the perfect companion for the 24S and 24S-D' added Schulz.

## BIAMP SYSTEMS INTRODUCES NEW POWER AUDIO AMPLIFIER

Biamp Systems, a leading provider of innovative and networked media systems announced its new four-channel power amplifier, the AMP-A460H. Catering to small to medium sized conference and meeting spaces, the new amplifier allows integrators to customize the application in rooms

features four channels of audio output, 60 watts per channel at 8 ohms. Bridged in pairs, it can provide 120 watts at 8 ohm or 120 watts with constant voltage (70 V/100 V) direct drive. With a compact half-rack design, it includes a mounting kit to fit easily into any standard rack. It



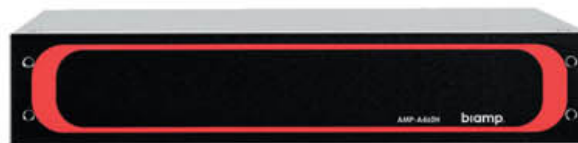
**24S and 24S-D Point Source Loudspeakers are the latest addition to the xS-Series**

reliability."

Differing in horizontal dispersion with 75° x 45° and 110° x 45° (h x v) respectively, the 24S and 24S-D house two 12" LF drivers in a dipolar arrangement and a single hornloaded 1.4" exit compression driver. The HF horn is rotatable that is the 24S and 24S-D can be mounted either

program material, the new 21S-SUB provides additional low end support from a conveniently small footprint. Housing a single 21" driver in a bass-reflex design, the 21S-SUB can be operated in standard mode to produce a frequency response of 35 Hz to 105 Hz or as a supplement to other d&b subwoofers in INFRA mode extending the LF performance to 33 Hz with an upper limit of 85 Hz.

In combination with the installation specific d&b amplifier: 30D, the 24S, 24S-D and 21S-SUB produce 138 dB SPL, 137 dB SPL and 134 dB SPL respectively and serve as the ideal alternative to a small multiple cabinet line array. With purposefully designed larger cabinet volume, the



**Biamp Systems AMP-A460H**

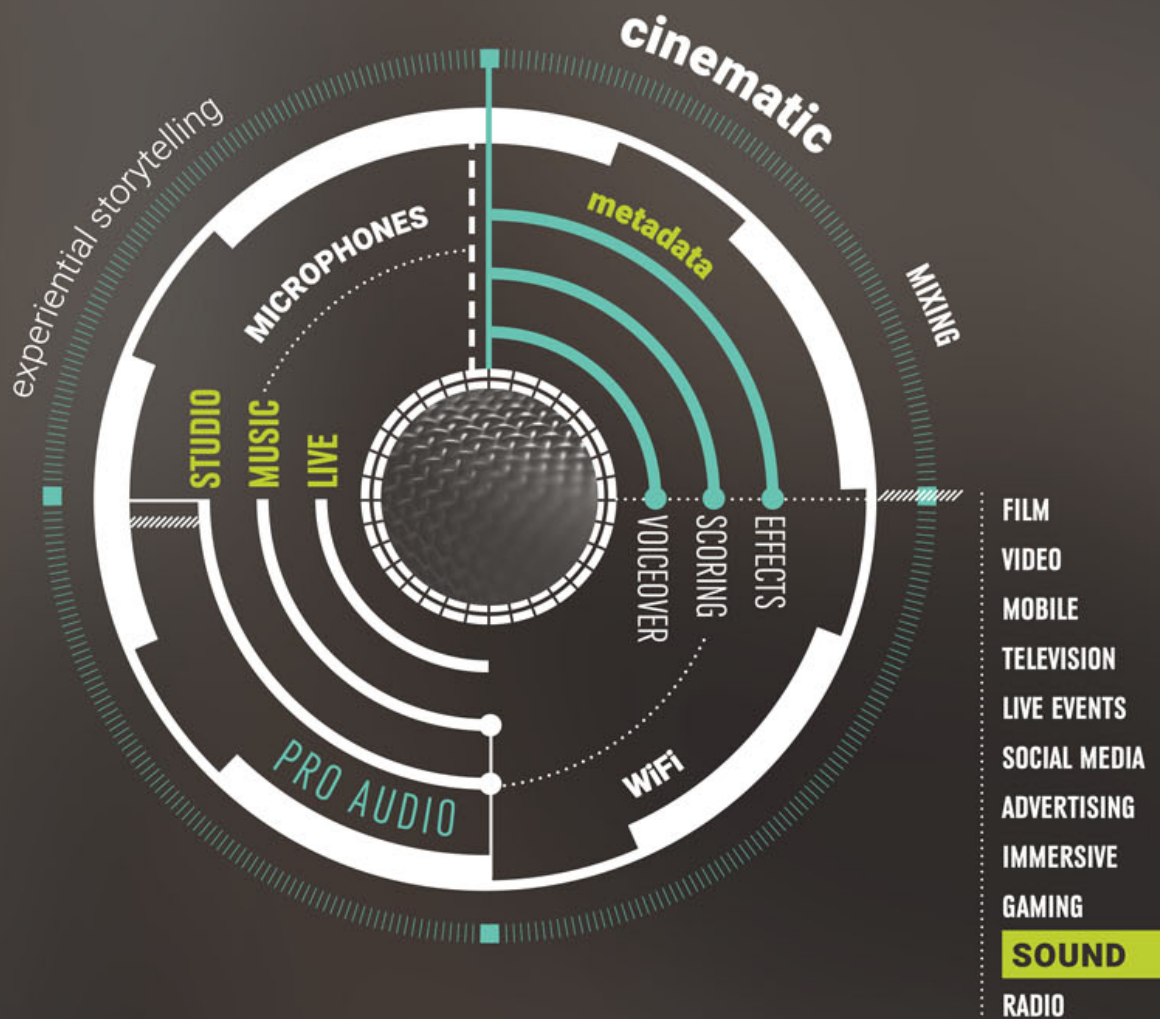
using Biamp Systems' TesiraForte audio processing platform.

Shell Haffner, Director of Product Management, Biamp Systems said, 'Many conference rooms need simple and reliable audio amplification. Our new AMP-A460H is a perfect match for conference rooms operating on the TesiraForte platform. Now integrators can choose Biamp quality for powering speakers in meeting spaces of varying sizes.'

The AMP-A460H analog amplifier

also features a balanced analog line in allowing easy and simple integration with any of the eight TesiraForte models. Extending energy conservation and reducing costs, the amplifier automatically powers down after 25 minutes with no audio signal. With fan-less operation and simple software-free installation, the AMP-A460H is ready to be placed in any conferencing, telephony, or VoIP environment needing minimal sound distribution.





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## ROLAND INTRODUCES VR-4HD HIGH-DEFINITION AV

Roland announced the introduction of its VR-4HD High-Definition AV Mixer. It is an easy-to-use, compact and portable AV Mixer that integrates a digital audio mixer, video switcher, multi-viewer touch screen and USB video/audio streaming interface into a standalone device.

Christian Delfino, Vice President of Product Management, Roland Professional A/V Division said, "The VR-4HD is a portable live HD production solution ideal for schools, churches, council meetings, corporate events, sports, training or any other live event. Whether being used to produce an online broadcast, support a presentation or even as the hub for a multi-input teleconference system that uses standard online chat software, the VR-4HD's all-in-one hardware design and audio digital signal processing capabilities including Auto-Mixing function, make it easy

for a single operator to achieve professional results."

The VR-4HD has three dedicated HDMI input connectors compatible with a variety of equipments and offering support for 1080p/1080i/720p video resolutions. A fourth input includes a scaler to support both video and computer resolutions and also supports analog RGB and component input as well as HDMI, so the older devices can be used as sources without the need for external conversion equipment. HDCP is supported for input of copy-protected content from devices such as Blu-ray disc players.

The VR-4HD's 18-channel audio mixer features Roland's digital signal processing offering that is the three-band parametric EQ, reverb, a compressor/gate on the mic inputs and level/multiband EQ on the master mix. The VR-4HD supports advanced

features including auto-mixing, echo cancel, audio follow and up to 500ms of delay for perfect lip-sync between audio and video. The VR-4HD's audio mixer can mix the four XLR microphone inputs, unbalanced stereo inputs on RCA and 1/8 mini connectors along with the audio embedded in the four HDMI inputs. The final mix can be outputted via XLR or RCA and also embedded into the HDMI output while a headphone output facilitates audio monitoring.

A unique loop-back audio capability via the USB 3.0 port can bring in audio from a connected PC using conferencing software such as Skype and return audio to the PC without any audio feedback as a result of the Echo Cancellation feature. This makes the VR-4HD an ideal web conferencing tool that allows for



**Roland VR-4HD High-Definition AV Mixer**

multiple video and audio sources to be used with online web conference software. Its Auto-Mixing function manages audio levels across audio sources even when an operator is not present.

The VR-4HD includes Downstream Keying, Picture-in-Picture, Split and Quad compositing effects ideal for creating news-style broadcasts and corporate presentation content. The DSK supports both Luminance Keying (Black / White) and Chroma Keying (Blue / Green). Compositing two

*(Continued on page 70)*

## PEARL CITY CHURCH INVOKES A DIVINE SOUND CONNECTION WITH THE D&B AUDIOTECHNIK Y-SERIES

Pearl City Church in Hyderabad along with team Ansata, the official distribution partners for world-class pro audio brands like AVID and d&b Audiotechnik devised audio architecture that involved the use of the highly efficient, powerful, versatile and easy to use Y-series system from d&b Audiotechnik, and also a comprehensive S3L mixing console solution from global pro audio segment leaders AVID.

The loudspeaker solution consists of total - 8 units of the Y82-way passive line array elements along with 4 units of the larger format Y122-way passive line array elements, powered through 3 units of the sublime D20 power amplifiers. The Y-8 and Y-12 loudspeakers together efficiently reproduce the ever crucial mid and high frequencies while a total of 6 units of the actively driven Y-Sub deftly deliver the low frequency impact.

Neil Lean of Ansata, drew up a comprehensive pro audio system plan for the Pearl City Church leadership, keeping in mind their requirements for the space in terms of performance and upkeep, ease of use, aesthetic appeal, economic viability and total value for money.

Neil mentioned, "We devised this system keeping in mind the various

points that Suresh and the key members of the church leadership had discussed with us during our meetings. With all the details in place, we had figured that the d&b Y-Series would be the best fit for the project, owing to its compact structure, aesthetically pleasing appearance and of course its massive performance, all of which comes in an easy to use and maintain package. And progressing on the fundamental of 'easy to use', the AVID S3L console system proved to be the perfect icing on the cake, as it completes this most effective, powerful and high quality audio system that the community members at Pearl City Church needed and deserved. We have to say that the congregation, much like the leadership, is extremely dynamic and very welcoming in matters of advanced technology, with a clear realization of how using world class technology can only result in positive outcomes. We are grateful for all the help and support that our team received from Suresh and all the members of Pearl City Church, which is why the end result is such a



**8 units of the Y82-way passive line array elements power up Hyderabad church**

magnificent sounding church room. It's been an honour for us at team Ansata to have been of service to the Pearl City Church, and we are confident that their new d&b Y-Series system along with the AVID S3L console will live up to every expectation."

Suresh Hickson, Technical Director, Pearl City Church shared his ideas in supporting team Ansata to bring together a highly precise audio architecture for the space. He commented, "We're a church with strength of over 1800 active members, with our very own full scale band who are pretty much the life of the Church and the fact that the entire congregation unanimously participates throughout the service is a testimony

to how important music actually is to the church and its congregation."

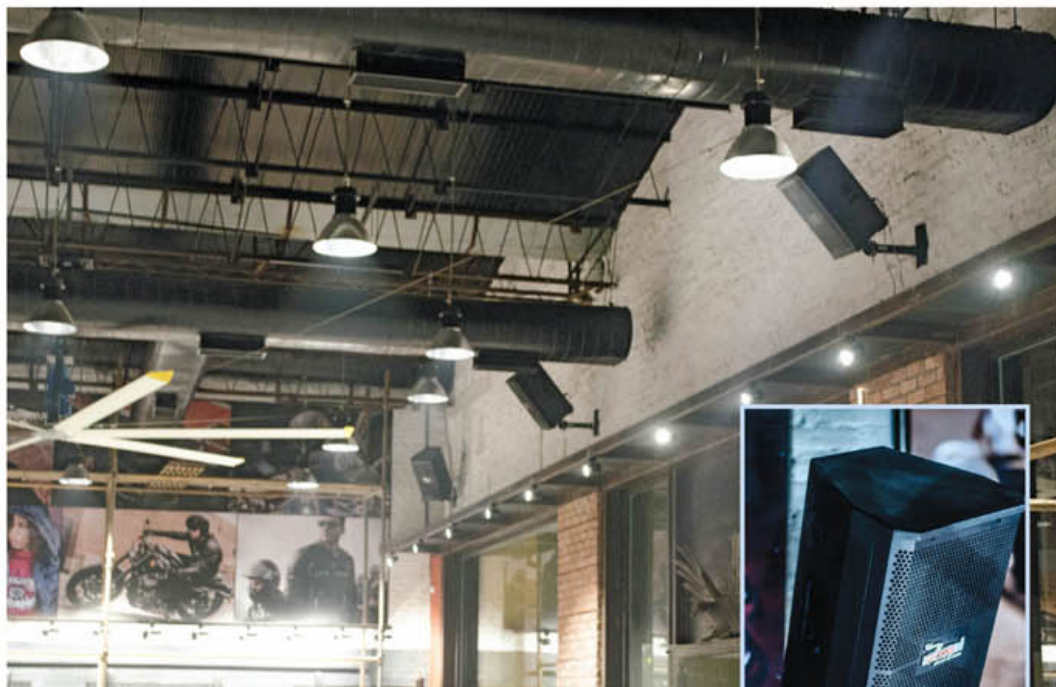
Expressing joy and satisfaction with the new world class pro audio system integrated at Pearl City Church, Suresh speaks on behalf of the church community and congregation at large and said, "The new system is absolutely fantastic. It is so easy to use, and the best part is that it delivers crystal clear sound all across the room. Our pastors have mentioned that there's a distinct vibe of increased quality creating a better environment to worship. All of us at the church would like to thank the entire team at Ansata for their help and support in making this possible."



## 5 CORE INTEGRATES HARLEY DAVIDSON SHOWROOM WITH FULL RANGE OF SOLUTIONS

The soon-to-be launched Harley-Davidson showroom in Mayapuri, Phase-1, Delhi, which is slated to be one of their biggest showrooms in India, was on a look out for a sound system partner for their venue. Gaurav Gulati, the promoter of the showroom was looking for mellifluous and lounge music with an intensifying surround effect through out its 12000 sq.ft area. After discussions with several vendors and integrators, Delhi based 5 CORE was eventually chosen to integrate the interiors of the 'Red Fort Harley-Davidson' with its wide series of professional sound and video solutions and public address systems. 5 CORE was efficient in supplying the acoustical needs.

5 CORE executed the wiring through the area of 1000m installing almost ten categories of audio equipment and covered the entire surface of the showroom. Wooden Columns, sub-woofer and



### At a Glance:

Location: Delhi  
Integrator: 5 CORE

#### Main Area:

- Wooden Column Speaker with 12" Driver - 5C-WC-12x1 @ 8 qty
- Wooden Column Subwoofer with single 18" driver - 5C-WC-18x1 @ 2 qty
- Power amplifier 1350 Watts per channel @ 1 Qty for 8 speakers
- Power Amplifier 900 Watts per channel @ 1 Qty for 2 Subs

#### Cafe:

- Curve Tower @ 2 qty
- Mixer Amplifier 250 Watts @ 1 qty

#### HOG Lounges & Container Lounges:

- Wall Speaker with 6.5" Driver WS-58-6.5 @ 8 Qty
- Wall Speaker with 4.5" Driver WS-58-4.5 @ 4 Qty
- Mixer Amplifier 250 Watts @ 2 Qty

#### Work Shop Area for Announcement:

- Steel Column SC-25T @ 4pcs
- Paging Amplifier PA-240 @ 1 qty
- Wireless Microphone MIC 301 HC @ 2 qty

#### Main Console Area:

- 2 in 6 out digital signal processor DSP-01 @ 1 Qty
- 12 Channel Live Mixer PX-12 @ 1 Qty

### Wooden Columns, sub-woofer and power amplifiers are installed to enrich the main area backdrops

power amplifier were installed to enrich the main area backdrops, wall speaker having a directional dispersion alongside mixer amplifier were integrated into cafeteria. The main console area was integrated with 12-channel mixer alongside digital signal processing to efficiently equalize the programming of system and HOG lounges and container lounges along with Work Shop area for announcement with steel columns, wireless microphone and paging amplifiers. With an integration



of audio series came full-HD short-throw projector and motorized screen configuring the surrounding with upgraded audio-visual technologies.

A team of five members from 5 CORE under the supervision of Ineet Singh Kalra, Assistant Director; Nitish Sehgal, System Integrator and Pramanshu Vasistha, Quality Control Manager successfully executed this installation project which covered an area of around 9000 sq.ft.

## PASCAL INTRODUCES NEW U-PRO SERIES AMPLIFIER

Pascal A/S has announced the launch of its new U-PRO Series amplifier module. Its design is uniquely optimized for self-powered portable PA systems and ultra-compact, high SPL loudspeakers for fixed installation applications; offering both single and asymmetrically rated 2-way power channels.

The U-PRO series feature unique dynamic power ratings due to its extremely high voltage rails, relative to its RMS power output. With RMS ratings of 280 W it can deliver ultra-short bursts of 500 W RMS or 1000 W peak power. Its performance characteristics

are well suited for lightweight portable PA, ultra-compact and high output fixed install cabinet designs.

The U-PRO2 has a 280 W + 100 W two channel asymmetrical power rating for 2-way loudspeaker cabinet designs while the U-PRO1 provides a single

channel of 280 W - into 4 ohms. At just 38 x 70 x 177 mm / 1.5 x 2.5 x 7.0 in, the U-PRO module has the smallest form factor, lowest profile and highest power density of any comparable product of this type.

The U-PRO's performance characteristics uniquely match the power requirements for cost effective and high SPL self-powered portable PA. Its singular dynamic power

configuration delivers high, non-clipping and short power bursts of up to 500 W and peaks of up to 1000 W.

In both BGM and ancillary fixed install applications, the U-PRO is specified to meet the growing demand for self-powered, ultra-

compact, visually unobtrusive and high output loudspeaker designs. The high dynamic power ratings of the U-PRO, relative to its ultra-compact form factor and coupled with its low residual noise are unique in a design of such high sonic quality.

Supporting modern connectivity requirements, an auxiliary power feed is available for integrated DSP, network or analog I/O boards. Readouts of protect/mute, temperature and clip signals are accessible for DSP and network or wireless control implementations and I/O stages. The U-PRO series feature ultra low standby power consumption for EuP2013 and green energy star compliance with an Auto Standby/Wake-up feature

(Continued on page 70)



Pascal U-PRO amplifier modules with PA speaker and fixed install speaker



## THE JOKER LIVENS UP TURQUOISE COTTAGE CAFE AND TAMASHA BAR

Delhi based Indian distributor-White Eagle Entertainment has showcased quality sound at Turquoise Cottage Café in Noida and Tamasha bar in New Delhi by equipping the venues with Amate Audio's state-of-the-art sound solutions.

### Turquoise Cottage Café

The restaurant-café Turquoise Cottage Café in Noida India has a stylish environment with a striking décor and an eclectic mix of the traditional and modern. Amate Audio solutions from Joker and KEY series as well as HD amps and DSP for signal processing provide the acoustic ingredient needed to achieve an ideal atmosphere for everyone to enjoy.

The Terrace has installations of 2x JK26 point source systems and 1x KEY15W subwoofer while the



Joker and KEY series installed at Turquoise Cottage Café

dancing area is equipped with 2x JK12 point source systems and 1x JK18W subwoofer. In the interior 4x JK26 point source systems is installed for processing there are: 1x HD2000 amplifier, 2x HD3200 amplifiers and 1x DSP206 signal processor.

### Tamasha bar

Tamasha bar is a fusion of curiosity and creativity, over 16000 sq metres, spread across five distinct seating areas, including a rooftop terrace

overlooking the busy streets of Connaught Place in New Delhi.

Breaking the routine, the bar engulfs great atmosphere and excellent music. The sound is provided by Joker series JK10, JK12 and JK26 point source systems with JK218W4 and JK12W subwoofers. To ensure quality background music while

eating, drinking, or enjoying live shows, the indoor ground and first floors are equipped with JK10, JK12 and JK26 point source systems with JK218W4 and JK12W subwoofers, all from the Joker series. Courtyard and backyard zones feature installations comprising Joker series JK10 and JK26 point source systems. The



Joker series JK10, JK12 and JK26 deployed at Tamasha bar

entire installation is amplified and controlled with HD amps and DSP608 signal processors.

Tamasha has been awarded 'Restaurant of the Year 2016' by Delhi Elite Magazine.

### YAMAHA RENEWS COMPACT MIXING AMPLIFIER LINEUP WITH MA2030A AND PA2030A

The compact Yamaha MA2030 and PA2030 have been updated with extra power and functionality. In addition to 8Ω output, the new MA2030a and PA2030a include high-pass and low-pass filters that make it easier to incorporate subwoofers for enhanced audio quality along with other features that contribute to improved flexibility and performance in a wider range of applications. The updated power amplifiers are ideally suited for use in restaurants and cafés as well as lecture halls and other institutional environments.

The new features include, 30 watts into 8Ω drive capability including EQ optimized for VXS10S/ST subwoofers and a built-in LPF in the PA2030a that provides easy matching with other subwoofer units.

### Yamaha MA2030 and PA2030



## SYMETRIX EXPANDS DANTE DSP LINE WITH PRISM OXO

Offering expansion via 64 channels of bidirectional Dante networking, the Prism 0x0 delivers cost-effective processing, mixing and routing for Dante-enabled endpoints while providing exceptional sound quality. Used as the DSP core of a Dante network or as a DSP co-processor, Prism 0x0 is ideally suited for applications requiring powerful, cost effective and advanced signal processing coupled with an industry-standard network audio interface.

The Prism 0x0 is identical to the other Prism DSPs with respect to processing power and delay memory. It is unique in that it has no analog inputs or outputs and no external control inputs or logic outputs. Prism 0x0 provides a quick and easy way to add customizable DSP capacity to existing Dante-enabled systems. Housed in a 1/2 rack x 1U rack-mount chassis, Prism 0x0 includes flexible mounting options and convenient power over Ethernet

(PoE+).

Trent Wagner, Senior Product Manager, Symetrix said, "The Prism 0x0 has many applications. For



Symetrix Prism-0x0

example, a lot of digital consoles have Dante but do not offer feedback elimination, auto-mixing and FIR filters for processing loudspeakers. Simply insert the Prism 0x0 between the remote stage-input boxes and the console, if Dante-enabled or use the Prism 0x0 as an insert or bus processor. For outputs, relay the signals through the Prism 0x0, if the

amps are Dante-enabled, or insert it on the console's buses."

Wagner also noted that in a multi-room meeting or conferencing facility that is all Dante based, the user can save money by centralizing and sharing certain resources. A Prism 0x0 in each room handles the local Dante mic and speaker processing while Symetrix Radius and Edge DSPs in the central machine room manage the AEC, mixing, and mic routing and assign resources such as telco lines.

Like other Prism-series DSPs, Prism 0x0 can be customized, connected and configured using Symetrix Composer, Windows-based CAD program. Prism 0x0 can be controlled from Symetrix ARC wall panels, ARC-WEB browser-based interface and from third-party touchscreens. An embedded Web server enables remote audio metering and diagnostics of the Prism 0x0 hardware.



# PALM CONFERENCE & SEMINAR 2017

This crucial feature of the PALM expo helps disseminate information related to latest trends and developments in LIVE SOUND & STAGE, LIGHTING EFFECTS, DJ GEAR, MUSIC PRODUCTION AND PRO AUDIO SYSTEM INTEGRATION

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DAY 02

AV  
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Krishna Prasad



Manish Mavani



Meghdeep Bose



Milind Raorane



Mujeeb Dadarkar



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## SENNHEISER EXPANDS SPEECHLINE DIGITAL WIRELESS RANGE

Sennheiser is expanding its SpeechLine Digital Wireless system with new products that would further enhance its flexibility and includes two fully wireless Tablestand units, a Qi-based wireless charging solution and a new network enabled charging unit.

Kai Tossing, Portfolio Manager at Sennheiser Business Communication said, "SpeechLine Digital Wireless was created by Sennheiser to be the first solution to meet the demand for a wireless microphones dedicated purely to speech. It offers easy installation and operation, a high level of reliability and future-proof technology to deliver supreme speech clarity."

"We are taking these qualities even further, bringing the simplicity, flexibility and freedom of wireless charging, with all products allowing easy monitoring and control via our intuitive Control Cockpit software," he added.

Sennheiser has created two new wireless base units featuring wireless charging by induction, the SL Tablestand 153-S DW and SL Tablestand 133-S DW. Being independent from any cables,

the products offer a highly flexible solution for users and utilize the most commonly used Qi wireless charging standard.

The SL Tablestand 153-S DW is



**Sennheiser Control Cockpit**

the perfect solution for ad hoc press conferences or podium discussions in any location. It is compatible with Sennheiser's MEG 14 40 L II B gooseneck microphone, connecting via its XLR-5 socket. The unit provides battery life indication via dedicated battery status LEDs.

Offering compatibility with all Sennheiser XLR-3 gooseneck microphones, the SL DW Wireless Tablestand 133-S DW is optimized for podium discussions, speeches and lectures. It comes with a rechargeable battery pack with up to 10 hours of operating time.

Both new Tablestands can either be charged wirelessly with Sennheiser new CHG QI 2 wireless charging base or via USB. They can also be monitored and controlled with

the MEG 14-40-L-II B gooseneck microphone and the SL Rack Receiver DW.

The new CHG QI 2 is a convenient wireless charging solution that uses the wireless Qi Charging standard to provide convenient wireless charging for two mobile devices. It can be used both with the SL Tablestand 133-S DW and with the SL Tablestand 153-S DW.

Also added to the SpeechLine Digital Wireless family is the CHG 4N, a network enabled charger featuring four individual charging bays. It can either be used for the SL Bodypack DW or the SL Handheld DW. Each bay has four dedicated LEDs to indicate the corresponding battery status of the mobile device.

Its flexible network interface provides IPv4 and IPv6 compatibility for seamless integration.



**Sennheiser SpeechLine DW TableStand 133-S**

Sennheiser's Control Cockpit.

The new wireless tablestands are available in a set: The SpeechLine Digital Wireless Tablestand Set SL TS 133 GN SET DW including the SL Tablestand 133-S DW, the MEG 14-40 B gooseneck microphone and the SL Rack Receiver DW. The Wireless Tablestand Set SL TS 153 GN-L SET includes the SL Tablestand 153-DW,

## LODE AUDIO INTRODUCES THE LA1 SINGLE-ZONE MUSIC SERVER

Lode Audio has introduced the LA1 – a single-zone music server that combines Hi-Fi quality performance with the control and reliability demanded by the custom installation industry or by a standalone music player. It is a revolutionary single-zone addition to the company's suite of multi-room audio servers. The LA1's internal audio circuits feature DAC's capable of high-resolution music file playback powered by medical-grade

power supplies. With LA1 the installers finally have a dedicated music source that has been built for the application and yet will deliver the performance desired by even the most ardent audiophile which is all controlled from the users' mobile device or home automation control system.

Built on Lode's patented LodeNet, audio can be played synchronously throughout the property without the issues of interference, delays

and outages experienced by many commercially available wireless based audio systems. Used either with LA4 four-zone music server as a part of larger multiroom system or as a standalone source, the Lode LA1 is able to deliver audio streams from the users' iTunes library, internet radio and streaming services, all at the touch of a button.

Whether requiring a single zone source for a dedicated room, bar, yacht or looking to create a multiroom audio system that exceeds the performance expectations of the audiophile, Lode Audio's LA1's simple control, bullet-proof build and reliability is ideal for the installers' audio source of choice.



**Lode Audio LA1 single-zone music server**

(Continued from page 66)

videos in one screen using Picture-in-Picture or the split function is ideal for seminars and presentations.

The VR-4HD features a clean, intuitive control layout with broadcast switcher cross-point switches for key and transition operations and an easy-to-use touchscreen interface. User-assignable buttons allow customization for quick access to functions needed for a particular application. The audio mixer features short-throw faders and knobs for dedicated hardware control of each individual audio source. The VR-4HD's rugged construction ensures long-term reliability even under the most demanding conditions of portable and professional use. The Roland VR-4HD High-Definition AV Mixer will be available in December 2016.

(Continued from page 67)

with selectable time settings, making the module ready to handle future regulatory requirements.

Speaking on the launch of

U-PRO Series, Peter Frentz, Senior VP of Business Development, Pascal said, "Pascal is at the forefront of understanding and insight into, the future requirements of the professional audio market in terms of the specific

application demands for self-powered amplification. Our dedicated designs deliver a performance premium not available from general-purpose and commodity products. Our advanced engineering of the specific

performance requirements for distinct applications allow us to design a product like the U-PRO series, able to deliver optimum performance specifications for two distinct applications."



# 11 Questions with Fuat Koro

Director of Global Sales & Marketing, Bose Professional

***PALM technology met up with **Fuat Koro** - Director of Global Sales & Marketing, Bose Professional and Arun Kumar, Divisional Manager at Bose Professional India, on the sidelines of the demo of the new ShowMatch DeltaQ array loudspeakers in Mumbai. Koro gives a heads up on the technology behind the line array and what customers can expect from this differentiated technology.***

## **How are Bose ShowMatch DeltaQ array loudspeakers superior or different from traditional line arrays?**

There are two key elements of differentiation for ShowMatch DeltaQ: sound quality and flexibility. With respect to sound quality, the area where we really differentiate is the vocal clarity that the product provides. Historically, many loudspeakers have a crossover in the vocal region, which degrades vocal clarity. What we accomplished is keeping that crossover point outside the vocal region, which significantly improves vocal clarity. Another big differentiator in sound quality is the ability to custom shape the array so that it provides seamless coverage throughout the audience listening area. Finally, the output that we get out of ShowMatch is another unique sound quality element. We have two proprietary transducers and compression drivers that are not off-the-shelf transducers, but were designed by Bose engineers. The ShowMatch transducers provide amazing outputs, perhaps not seen from other products in its class.

Of course sound quality is not the only highlight; it's also about the flexibility of the product, especially as it relates to the DeltaQ technology. DeltaQ allows us to vary the directivity for each box so that we can create a custom array. This is something you don't see with other arrays in this market space. We refer to it as "next generation array technology" because we are able to customize the directivity to best fit the needs of the application. And last but not least, our engineers spent a lot of time considering this product from a portability standpoint. This is not only a fixed install product - it's

very much available for the portable rental market as well. The major benefit of ShowMatch is that the product can go anywhere, from large 5,000 person concert level installations, all the way down to small auditoriums or corporate AV applications.

## **If you have to name one single component most responsible for vocal clarity in the ShowMatch, what would it be?**

The one single component most responsible for ShowMatch's vocal clarity is the DeltaQ technology, which enables adjustment of the array directivity to best meet the needs of the application.

## **Who are your main target customers for ShowMatch?**

Our customer base for ShowMatch is very diverse because of the flexibility that it offers. The fixed install market that currently works with Bose RoomMatch loudspeakers will continue to be part of our customer base, with a focus on projects such as auditoriums, live music venues, houses of worship, etc. But the introduction of ShowMatch opens a whole new customer base for us as well, because it is also engineered for portability. On the rental side, ShowMatch can work anywhere from tour level applications to corporate AV events and conferences.

## **Would you say that ShowMatch is a new improved version of RoomMatch?**

The two products share a similar design philosophy, but there are some nuances that distinguish RoomMatch and ShowMatch, so both will continue to coexist in our line-up of DeltaQ arrays. We see





RoomMatch as the best approach for acoustically challenging venues, because the level of customization that it affords is second to none. We have 42 different boxes available to shape a RoomMatch array, as well as many different asymmetrical configurations. Hence, RoomMatch is our best offering from a customization standpoint. Meanwhile, ShowMatch has many advantages in terms of portability, output, and box size that make it a great choice for applications that require more compact array configurations.

#### When will the product start shipping and what would be the price range in INR?

The product will be available in the Indian market beginning in December. We haven't published the price list yet, but for now we can say that it will be slightly less than RoomMatch.

#### Have you received any feedback from customers or manufacturers who had the opportunity to hear ShowMatch?

Right now we are in the middle of a global rollout, stopping at over twenty cities around the world, so many customers are seeing, experiencing, and hearing the product. By mid-December, we will have had a wide introduction around the world. We have been involved in several organized events with other manufacturers as well, and have a mutual respect with other industry brands. Overall we are hearing that DeltaQ is a differentiated technology that offers something novel. Our customers and consultants have experienced many other products, and are very discerning about what works and what does not work for them. And

we are consistently hearing that the DeltaQ technology resonates very strongly with them.

**Arun Kumar:** We have received feedback from many partners across the world who are using other brands as well – across Europe, US and now in India as well.

#### What is your perception of the Indian market?

The Indian market is one of our focus markets, and a very promising market for several reasons. The first is the increased appreciation

definitely a market that we have been participating in for a very long time.

#### Your take on the tier 2 and tier 3 cities?

**Arun Kumar:** From our invite list today, I saw representation from all the cities. Obviously there are more people in the Metros, which is representative of the market. But I believe that the quality perception of folks in the Metros or tier 1 cities is no different from the perception in tier 2 cities. For instance, many

## On the rental side, ShowMatch can work anywhere from tour level applications to corporate AV events and conferences.

for quality sound, which is a huge advantage for us and something that we would like to leverage. Another is the promise we see in the live music industry, which is growing tremendously. Finally, we are also looking at the corporate events market, which is very active in India. For these three reasons, we see a very natural fit between the product that we are introducing and the present market dynamics. Also important to mention is that the product is only half the story: we also have a very strong team presence in India. Bose has been in the Indian market for a very long time. We have a subsidiary with a Bose sales force and field engineering in multiple cities, so it's a market that we are very familiar with. In that sense, it's not an emerging market for us, it's

tier 2 rental companies have top-notch gear - sometimes even better than those in the Metros. This gives me confidence that our customers, whether in Metros or tier 1 or 2 cities, really appreciate the high-quality sound that we can deliver.

#### Do you think that India is a price sensitive market?

India is a price sensitive market of course, but price is only part of the story. We see that our customers are really seeking value. If we can provide a performance level that is commensurate with price, our customers are very receptive to that. We want our products to reflect all of our R&D efforts and new technology developments, and leverage those features to deliver customer value so customers can see that Bose offers premium

products.

#### Tell us a little about the R&D process at Bose?

The guiding philosophy at Bose is definitely "better sound through research," and that is very much present in our pro-audio business. We always play for the long term, so for us it's not only about next year. If we think we can offer our customers a demonstrable benefit, we are willing to invest in technologies with a much longer time horizon. This is actually the case for the DeltaQ line array technology: Our engineers have been working on this technology for over a decade. But I should also emphasize that it's not only about technology; without delivering value to the customers, the process would be incomplete. So our R&D process also involves being very much accountable for delivering results based on customer demand for our products.

#### What is your perception of the global market for pro-audio products and how does India fit into this global scenario?

It's a very exciting time for us to be in the global pro audio market. Some segments are growing very fast, especially on the corporate and the enterprise side, while other segments are very steady. Digital networking is also becoming more common in pro audio applications, and the need for premium quality audio is also increasing. If I look at India and how it falls into the overall pro audio market, I see similar trends, so India is not all that different from the rest of the pro-audio market around the world.

## SAMSUNG ELECTRONICS ACQUIRES HARMAN

(Continued from page 16)

Chief Executive Officer, Samsung Electronics said, "Harman perfectly complements Samsung in terms of technologies, products and solutions; and joining forces is a natural extension of the automotive strategy we have been pursuing for some time."

"As a Tier 1 automotive supplier with deep customer relationships, strong brands, leading technology and a recognized portfolio of best-in-class products; Harman immediately establishes a strong foundation for Samsung to grow

our automotive platform. Harman's sustained track record of rapid growth fueled by technology leadership and an unmatched automotive order pipeline reflects its commitment to innovation and customers," he added.

Young Sohn, President and Chief Strategy Officer, Samsung Electronics said, "We see substantial long-term growth opportunities in the auto technology market as demand for Samsung's specialized electronic components and solutions continues to grow. Working together, we are confident that Harman can become a new kind of Tier 1 provider to the

OEMs by delivering end-to-end solutions across the connected ecosystem."

Dinesh Paliwal, Chairman, President and CEO, Harman stated, "Today's announcement is a testament to what we have achieved and the value that we have created for shareholders. Samsung is an ideal partner for Harman and this transaction will provide tremendous benefits to our automotive customers and consumers around the world. Combining Samsung's strengths in leading-edge displays, connectivity and processing solutions with Harman's technology leadership and long-standing customer relationships will enable OEMs to

provide new offerings for their customers. Partnerships and scale are essential to winning over the long term in automotive as demand for robust connected car and autonomous driving solutions increases at a rapid pace. This transaction will bring Harman and Samsung's complementary strengths together to accelerate innovation in this space. More broadly, this investment underscores the strength of Harman's employees, as well as our success and leadership across our markets. We look forward to working together with Samsung to elevate experiences for consumers worldwide."



## CHAUVET PROFESSIONAL INTRODUCES NEW PRODUCTS AT LDI

The Chauvet Professional and Ovation booths at LDI introduced a collection of new fixtures with unique performance features that would be adapted in theatres, concert tours and other applications around the world.

### Ovation E-260WW IP

In the Ovation line, there was Ovation E-260WW IP which is the first IP65 rated LED ellipsoidal. The new indoor/ outdoor fixture, which has the same familiar form factor as standard ERS style fixtures, joins the Ovation E-260WW, which was introduced earlier this year. The two Ovation LED ellipsoidals have an output that surpasses that of a 750-watt HPL

Chauvet Professional Ovation E-260WW IP



ellipsoidal (6,910 lux at 5M with a 26° lens).

### New batten fixtures

Chauvet Professional also

showcased the first batten fixtures ever in the company's Ovation line. The new Ovation B-565FC and B-2805FC are the first

batten style fixtures that utilize the extended colour rendering capacity of the RGBA-Lime colour mixing system. Offering RDM, Art-Net and sACN, in addition to standard DMX control, the Ovation battens feature a colour blending filter for close-up colour



Ovation B-2805FC

mixing.

Like Ovation, the Chauvet Professional COLORado line is also being expanded to include more indoor/outdoor fixtures. LDI witnessed the introduction of IP65 rated fixtures in the COLORado Solo series. Convection cooled, the COLORado Solo fixtures run silently and feature selectable colour temperature as well as variable PWM. It is well-suited for broadcast, theatrical and recital

applications.

### COLORado 1 Solo

Among the Solo series fixtures that were showcased at LDI were, COLORado 1 Solo, that has a single fully homogenized 60-watt Osram RGBW LED source delivering over

5000 lux at 5M in full-spot mode; the COLORado 2 Solo which has three 40-watt Osram RGBW LEDs that produce over 9700 lux at 5M in full-spot mode; and the COLORado 3 Solo, which combines the power of three 60-watt Osram RGBW LEDs to



COLORado 1 Solo

generate over 15,000 lux at 5M in full-spot mode. All of these fixtures have IP65 rated power and data connectors.

### LED video walls

The company showcased the 4.8mm pixel pitch VIP F4 LED panel. Suitable for production, touring or permanent applications, the panels have cable-free magnetic LED modules and a removable control/ PSU box allowing them to be serviced from the front or rear. The panels can easily be removed from the front using an MT-03 tool, making it practical to install them flat on a wall. At the same time, the ruggedly designed panels also come with road cases for touring. VIP F4 panels feature high contrast blackbody LEDs and run on Novastar protocol, with the VIP Drive 43Nova.

## ELATION PROFESSIONAL'S NEW LIGHTING SOLUTIONS: THE PLATINUM 1200 WASH AND PROTEUS

Satisfying discerning lighting professionals with new cutting edge innovations, Elation Professional launched at LDI the Platinum 1200 Wash, a full-color LED moving head wash light with the power

creativity.

### The Platinum 1200 Wash

This Wash is an extremely bright LED color wash moving head luminaire with (19) 65W Osram multi-chip RGBW LEDs. Its features include a 5°

to 50° motorized zoom, advanced cooling and

electronic strobe, pulse, and variable dimming curve effects, adjustable GAMMA brightness and LED refresh rates, multiple DMX channel modes, RDM (Remote Device Management) support, 5pin XLR and powerCON TRUE1 in/out connections, (6) button control full color 180° reversible menu display, flicker free operation for TV and FILM, and a multi-voltage universal auto switching power supply (100-240V).

### Proteus

Highlighting a sophisticated yet pragmatic design, Proteus is a high-performance intelligent lighting solution that helps designers create the effects and power they need, regardless of weather, tech or brightness requirements.

It is also compact, robust and budget-friendly with next-level intelligent lighting solutions designed to unleash creative vision and excel under any conditions. The designers can now benefit from Elation's trusted and award-winning indoor expertise outside, with superior illumination allowing their vision to be unbound by the elements.



Elation Professional's Platinum 1200 Wash and Proteus

of a 1500W discharge fixture, and Proteus which is a next-tier product line of IP-rated moving lights built specifically to empower designer

movement control systems, 8-bit and 16-bit color mixing, pixel and pixel ring control, adjustable linear color temperature (2,700K - 8,000K),



## PIXELFLEX ANNOUNCES NEW PARTNERSHIP WITH SPACEVIEW

LED video manufacturer PixelFLEX has announced a new partnership with SpaceView to offer their clients an even greater understanding of how LED video can transform any environment.

As an Augmented Reality

Operating across all Apple, Android and Microsoft OS platforms, PixelFLEX customers will now be able to virtually experience their LED video creation in true-scale with the simple drag-and-drop of a photo.

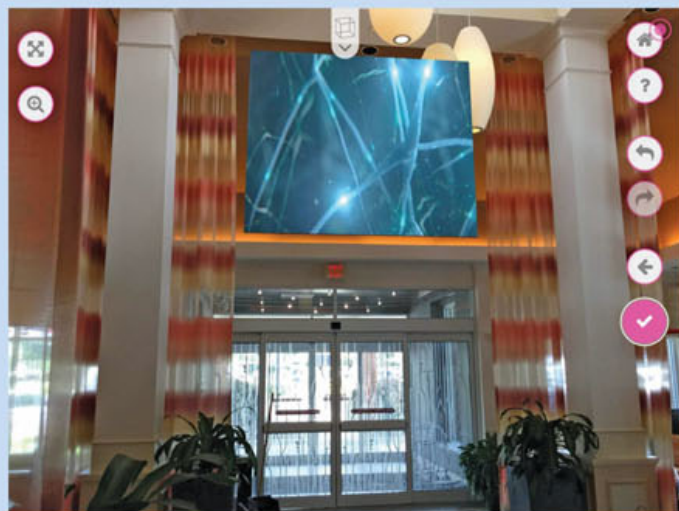
Cody White, SpaceView co-founder

in their particular field, we want to enable them to build their customers dreams without the visualization breakdown that previously existed. Now when a sales representative is visiting a job site, they can use the SpaceView technology to give their client a true-to-scale, visual experience that is as easy as taking a photo and selecting which PixelFLEX LED video technologies to drop into the design," he added.

SpaceView visualizes real-world products in any space helping companies improve their sales process by providing a near-instantaneous rendering of the proposed product solution in the venue.

David Venus, Director of Marketing, PixelFLEX said: "Using the SpaceView technology, we are now able to provide a definitive proof-of-concept to all of our customers giving them a greater confidence in their LED video decision-making process."

He added, "The SpaceView app is a differentiator for our sales process by providing actionable information that will assist our sales reps in the field with calculations such as power draw, weight, wall dimensions and pixel resolution; while also helping our customers make the optimal purchasing decision for their unique LED video designs."



SpaceView visualizes real-world products in any space

technology, SpaceView transforms the way commercial construction and renovation design teams collaborate and visualize their creations by providing near-instantaneous and accurate product installation renderings.

and VP of customer success said, "Our goal at SpaceView is to help our customers communicate a realistic vision of what they can do for their clients as easily and quickly as possible."

"Since our clients are the experts

## ARKAOS LAUNCHES MEDIAMASTER PRO 5.0 WITH MEDIAHUB

ArKaos Pro has announced the official release of the new MediaMaster Pro 5.0 with MediaHub. The launch of MediaMaster Pro 5.0 at Plasa, UK follows a successful preview at Prolight+Sound in Frankfurt earlier this year.

ArKaos MediaMaster Pro is a professional software solution for the control of real-time video and effects which is specifically designed for desk operators and lighting designers. It turns any computer into a powerful media server ready to perform at any professional level. Precisely aligning the real-time video content over non-planar or curved screens, it transforms any powerful computer into a media server for professional lighting consoles driven by DMX, Art-Net, Time Code and MIDI.

With the introduction of MediaMaster Pro 5.0, ArKaos combines maximum functionality with simplicity of operation. It retains the user-friendly and broad functionality that has become the trademark

of the ArKaos product range. Its enhancements include, up to 36 layers to prepare, play and output more visuals and effects. It can easily synchronise text with the new lyric player especially designed for singers, church performances and corporate presentations. With enhanced DMX

patching over multiple universes and auto-patching feature, it has new and improved appearance of the user interface.

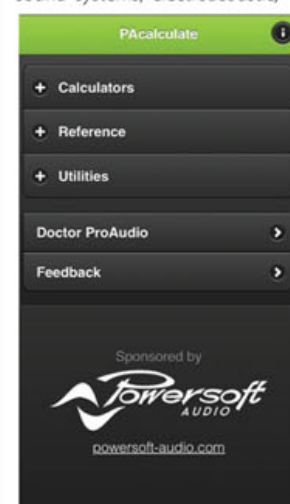
License upgrades are available from MediaMaster Pro 4.x to MediaMaster Pro 5.0 and from MediaMaster Express 4.x to MediaMaster Express 5.0.



ArKaos MediaMaster Pro - designed for desk operators and lighting designers

## POWERSOFT SPONSORS NEW PA CALCULATE APP

Powersoft has sponsored the multi-platform PAcaculate app that runs on mobile devices such as Android, iOS, Windows-Phone and Blackberry including smartphones and tablets. It is developed by Brusi Acoustics which is a consulting firm for electroacoustic and an independent laboratory for loudspeaker directivity testing. Marketed by Doctor Pro Audio, a leading web portal, the multi-lingual app is currently speaking simplified Chinese, English, French, German, Italian, Portuguese, Russian and Spanish. With many calculations, utilities and reference information, it is a useful tool for anyone dealing with PA, sound reinforcement, sound systems, electroacoustic,



pro-audio and as well as lighting.

Explaining the sponsorship decision, Francesco Fanicchi, Brand and Communications director, Powersoft said, "We have decided to implement our brand on the app by focusing on a dedicated session regarding on the Powersoft limiter thresholds."

The Powersoft tool has been developed to help users set a starting point for a limiter setup and performing real life tests to validate and tune the results.

The developer of the app, José Brusi commented, "I hold the Powersoft brand in very high esteem for its constant innovation both inside and outside of their comfort zone. So it's great to see Powersoft as a sponsor of PA calculate and join the ever growing community of users across the different platforms."



## PHILIPS LIGHTING LAUNCHES NEW ENTERTAINMENT PRODUCTS AT LDI

### SL LEDSPOT 300

The product from the Philips Lighting stable will offer designers more dynamic effects to differentiate their shows.

The compact, the Philips SL LEDSPOT 300 delivers infinite colour possibilities from its CMY colour mixing and fixed colour wheel. The product can achieve dynamic effects from its rotating and fixed gobo wheels, 3-facet prism, Iris and framing system.

Amber Etra, key account manager at Philips Lighting's entertainment business said, "There was a phenomenal buzz around this product at its exclusive PLASA preview. Several of our customers have commented that there isn't

anything like this on the market. The four framing shutters set this luminaire apart from the rest, plus the flat field and mix of dynamic features

make it versatile enough to adapt to a range of designer requirements."

### Showline SL Series

Also, showcased in the USA

for the very first time from Philips Lighting were the Philips Showline SL BEAM 300fx and Philips Showline SL PUNCHLITE 220.

The New Technology Showroom's immersive light show in LDI illustrated the latest product innovations. A preview of the new Philips Vari-Lite VL6000 was featured which was presented by Martin Palmer, Entertainment Product Segment Manager, Philips Lighting. The fixture is due to launch at the end of the year. The Philips VL6000 featured renowned precision optics along with some dynamic new qualities that was revealed at the show.



Philips Lighting Showline SL BEAM 300fx, SL LEDSPOT 300 & SL Punchlite 220

## HOG 4 OS 3.5.0 OFFERS NEW FEATURES AND ENHANCEMENTS

High End Systems has released its latest OS for Hog 4 lighting consoles. Hog 4 OS 3.5.0 offers new features and enhancements for the platform's wide user base; the company is also touting new features in development for release in the near future.

Hog 4 OS v3.5.0 fully supports compound fixtures providing easy scheduling and patching along

Jonathan Kemble, Control Systems Software Manager, High End Systems said, "We are building further on this incredibly powerful and intuitive platform making Hog users ever more productive and creative. With no less than nine major new features in development, we are proving our commitment to make Hog the most competitive and versatile



with communicating directly with several video matrix switcher products over Ethernet. This allows smaller productions to control video equipment directly from a lighting console without the need for additional control systems or operators. Hog 4 OS supports a number of series like Barco MatrixPro-II SD/HD/3G-SDI, Blackmagic Smart VideoHub, Lightware MX and the AJA KUMO 16x16 series switchers.

control system in the world."

Jeff Pelzl, General Manager at High End Systems said, "High End Systems is pleased to offer our dealers and user base increasingly powerful versions of our Hog 4 software. The new features we will be unveiling promise to make the Hog platform an even more popular and full featured platform for leading lighting designers, programmers and operators."

## GLP ANNOUNCES RELEASE OF 30W X4 ATOM

German Light Products (GLP) has announced the release of the upgraded 30 Watt version of their popular X4 atom fixture. Adding a new high power light source into the unit has doubled its brightness and introduced greater optical efficiencies within the unit. At the same time, an additional 6-way PSU has been added to the product line up.

The brighter 30 Watt RGBW LED source is used across all GLP's X4 range. This ensures full color matching across fixtures and enables the X4 atom to really cut through, despite its compact size.

With a bright source starting with a 9 to 1 ratio zoom that goes from a wide 34" wash down to a tight 3.5" beam for pinpoint accuracy and great mid-air effects, it maintains a clean output and even distribution of color and intensity.

Mark Ravenhill, President, GLP Inc stated, "As versatility is the key, we made the housing IP65-rated, allowing it to be used on events and shows all year round, indoors or out. And for the times when a single X4 atom just isn't enough, we have created a fast interlock system that allows fixtures to easily be coupled together. The standard yoke

is easily removed and you can quickly assemble pairs, quads, lines and grids of fixtures in any configuration that you need and still keep individual control of each atom, creating stunning displays."

The X4 atom runs from an external power supply with a 6-way and a 12-way option available that feeds fixtures via an industry standard 4-pin XLR cable, tapping into existing



infrastructure and reducing the overall environmental impact of the fixture.

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## SGM LAUNCHES P-1 AND G-4 WASH LIGHTS

### P-1 designed for multiple applications

SGM has released a new compact P-1 which is an IP65-rated battery-driven RGBW LED wash/ blind/strobe light with a small footprint and high output. It is designed for multiple applications and applications where wireless operation is essential. This portable, lightweight fixture eliminates the hassle of cabling and ensures a

quick and easy setup.

Running for up to 12 hours in standard operation mode, the P-1 can easily be configured to provide an even output over longer periods of time. It offers smooth dimming and color mixing as well as wireless control and configuration.

Peter Johansen, CEO, SGM said, "I'm very proud to present this new battery-driven wash light. The word has been out for a while, that SGM would release a compact but powerful battery-driven wash light and consequently, pre-orders have been rolling in. With this overwhelming reception, we anticipate a great future for the P-1."

### G-4 Wash: new addition to G-range

SGM also releases the G-4 Wash which is

a new addition to its G-range of moving heads. The light-weighted and compact high power Fresnel wash light has efficient colour mixing and low power consumption.

It comprises of red, green, blue, amber and mint LEDs that mix directly in the light source. Additionally, it has a dichroic enhancer which helps create a congo blue delivering a very saturated black light

effect. With a CRI of more than 90, typically 93; it is not only powerful in colors but also impressive in white.

The durable, IP65-rated exterior of G-4 Wash and the built-in dehumidifier makes it ideal for outdoor applications and is practically maintenance-free. Because of its unlimited color options and unique color rendering capabilities, it is highly suitable for multiple applications such as theaters, concerts, cruise ships, exhibitions, architectural installations or any application where high output, stunning colors and dramatic color effects are desired.

The G-4 wash can be remotely configured, controlled and monitored via RDM.

Peter Johansen asserted, "20 years ago we introduced a moving head that became not only an industry standard, but also the workhorse for lighting professionals worldwide. With the G-4, I am convinced that it will be the new benchmark for moving heads."



SGM P-1 Wash Light



SGM G-4 Wash Light

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### PRINTED BY

ABEC Exhibitions & Conferences Pvt. Ltd.  
530, Laxmi Plaza, 5th Floor,  
Laxmi Industrial Estate, New Link Road,  
Andheri (W), Mumbai - 400 053.

### Printed at:

M/s. Dhote Offset Technokrafts Pvt. Ltd.  
2nd Floor, Paramount Estate, Plot No-5a,  
Off Aarey Road, Near Kotkar Estate,  
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