

# PALM™ technology

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

EXPO PROMOTION

## MSS Projects delivers Son-Et-Lumiere multimedia show at **Jyotisar**



An Unequal Music

*Restarting*

Column on albums,  
recording and studios

**Unequal Music**

by Music Producer,  
**Abhimanyu Malhotra**

CEDIA®

**Interview with Wendy Griffiths**

**OHM at Digha Convention Centre**

## Sound engineers flock to **Monitor Mixing Summit**



Theme: LIGHTING SEPTEMBER - OCTOBER 2019

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## A 'Bright' Future

2019 promises to take the stage lighting frenzy to another level with the music festival circuit witnessing some serious activity, courtesy the Sunburns, Nh7s, pop and electronics acts and innumerable smaller gigs lined up till January 2020. This of course is good news for the rental guys and the lighting majors eyeing the Indian market as the next horizon.

Globally too, live music events and concerts are projected as major drivers for growth. As per industry reports, globally, the specialty lighting market is projected to reach USD 7.2 billion by 2024 at a CAGR of 5.9% from 2019 to 2024 with entertainment lighting leading the specialty lighting segment and Asia Pacific projected to grow at the highest CAGR between 2019 and 2024. Within the entertainment lighting segment, stage lighting accounts for the largest pie, with certain reports indicating a market value of US\$2.29 bn by 2026.

With increasing number of stage events and even the Government backing investments into professional lighting, sound, 3D projection mapping and augmented reality in major tourist destinations, the future certainly looks bright and lighted for the industry in India.

This *Sept-Oct* issue is as always focused on lighting and on this cover, we have the Light & Sound show at the Jyotisar Tirth executed by **Modern Stage Service Projects**. The Kurukshetra Development Board included a new multi-sensory light and sound show for devotees and tourists, recreating episodes from the epic Mahabharata with lights, sound, laser projectors and MSS World Projects transforming the vision into reality. *PT* reports on *pg.40*.

The cover also features the **Monitor Mixing Summit** organized by EvenTech Academy, an initiative by Sound.com. One could feel the energy of the industry as sound engineers and event techs from across the country congregated at the Mumbai Event *pg.55*.

Lighting is a subtle art, where good lighting "disappears", and bad lighting is what you notice. Talented lighting designers are able to make light seemingly disappear, in the sense that the entire choreography is subtle and enhances the stage. PALM on its part takes great pride in producing a remarkable Lighting showcase, aimed at providing a platform to lighting designers from across India to present their talent.



**Anil Chopra, Founder Director of PALM expo; Ulhas Sahasrabudhe, Lighting Design Showcase Producer and Smita Rai, Project Head – Features, PALM expo, conceptualizing the lighting design showcase 2019**

There was so much vigor on display at the 2019 showcase with **Ulhas Sahasrabudhe** and his team at SSL Media producing the **PALM Lighting Design showcase** for the third consecutive year, with a one of its kind remarkable and ingenious Spider lighting rig. PALM reinvented the lighting showcase this year by converting it into an open house platform with an aim to make it more interactive giving young lighting engineers a fantastic opportunity to be creative. More on *pg.28*.

New product launches and introduction of latest upgrades by leading manufacturers is what drives the stage lighting market globally and the product feature section on *pg.82* lines up some state-of-art products launched in the last one year, boasting features such as compact design, ease of usage, high brightness level etc.

Viraf Pocha our die-hard columnist on lighting sums it up perfectly as he underlines that Stage Lighting is one of the widest of bridges between Technology and Art. "There are so many bits of equipment reviewed and advertised. I hope you will go through them carefully and seek out which ones you feel can enhance your ideas. And then get to work," is his advice on *pg.84*.

We continue with the "PALM Sound & Light Awards – Know the Winners" feature, introduced in the previous July-August 2019 issue. In this issue, *PT* highlights the achievements of **Naveen Deshpande**, winner of PSL Award for *Lighting Designer of the Year*, *pg.37*; **Sound Emporium**, winner of PSL Award for *Excellence in Lighting Integration*, *pg.68* and **Clay Paky Sharpy Plus** winner of PSL Award for *Outstanding Lighting Product Innovation*, *pg.58*.

With **Unequal Music** we have a hardcore music review column, penned by **Abhimanyu Gupta**, Music Producer, The Sonic Arts Co., providing insights on recording, mixing and mastering of albums and the studios churning out the music. The focus in this issue is Divine's debut 8 track album, *Kohinoor* *pg.64*. Keep reading this column. All Music labels, Sound engineers and Music Studios, are also welcome to send us information about your latest album release for review to [unequalmusic@palmexpo.in](mailto:unequalmusic@palmexpo.in)

The **Nov-Dec** issue is the **Big Stage DJ issue**. Stay tuned for some exciting news on this front.

*Smita Rai*

Smita Rai – Content Anchor

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Naveen Deshpande - Lighting Designer of the Year

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Sound Emporium - Excellence in Lighting Integration



## PALM SOUND & LIGHT - KNOW THE WINNERS

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- TWO-CHANNEL, FOUR-DECK CONTROLLER FOR SERATO INTRO
- LARGE PLATTERS WITH THE LOWEST AVAILABLE LATENCY, OPTIMIZED FOR SCRATCHING
- EIGHT SOUNDS IN EACH TR KIT: BASS DRUM, SNARE DRUM, CLOSED HAT, OPEN HAT, TOM, RIM, CLAP, AND RIDE



# DJ-505

## DJ CONTROLLER

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- LARGE, LOW-LATENCY PLATTERS OPTIMIZED FOR SCRATCHING
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**Hyderabad:** Khords Complete Music Store (09908583067), **Trivendrum:** Sruthi Musicals (09846029134)  
**West - Ahmedabad:** Nrutika Enterprise (0971246969), **Jabalpur:** Ajit & His Beats (09425151979), **Mumbai:** Shalu Music (09892642311)  
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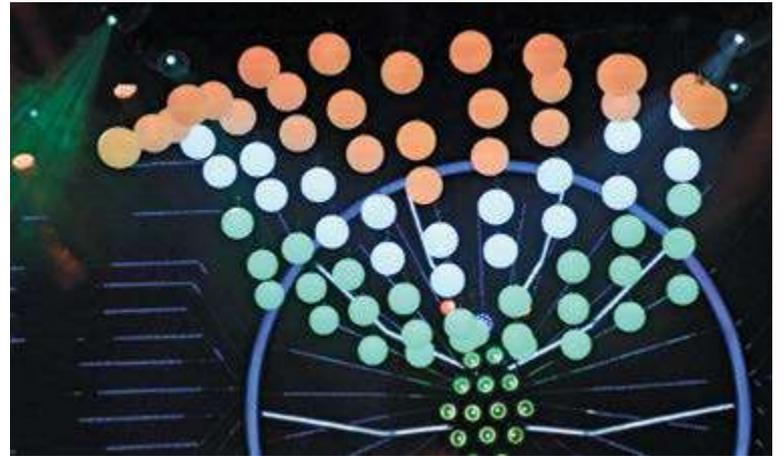
The Piano Man Jazz Club shines with Harman Pro Solutions; Bose Shipping Controlspace Processors; Kanishka Tongya joins Real Image; Audac expands Ateo Loudspeaker range; Sree Kalidas M-Plex chooses Christie Reallaser Cinema Projectors and Vive Audio; Eighteen Sound at Dev Electronics; Ohm Solutions in Balurghat Natya Charcha Kendra; Penn launches Slimline PDU Range; Bose at Iconic Minto Hall.

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**28** PALM Lighting Design Showcase featured lighting choreography, truly displaying lighting designer's programming skills.

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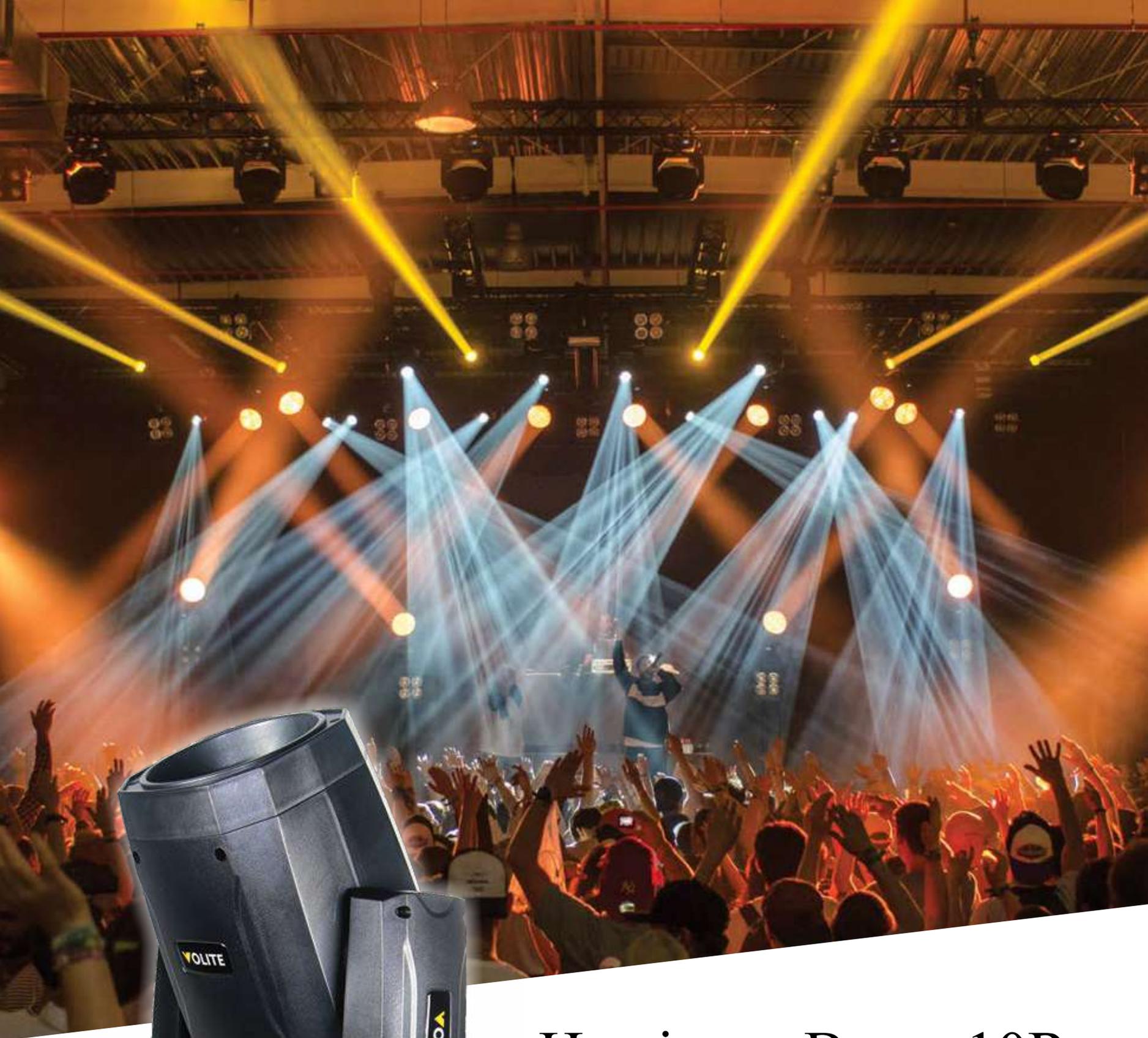
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"There are so many bits of equipment reviewed and advertised. I hope you will go through them carefully and seek out which one you feel can enhance your ideas and then get to work. That's the **Scratch Scratch** in the essay's title," says **Viraf Pocha**



**62** OHM reinforces DIGHA CONVENTION CENTRE with state-of-art solutions



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## CREATIVE STAGE LIGHTINGS ADDS DIGICO SD10 TO INVENTORY

The Garden City of India, Bengaluru is one of the major hubs for dynamic events. This creates growing opportunities for the city's event management and rental companies. The need for cutting-edge live audio technology and equipment is also on rise among the event management industry. One of Bengaluru's veteran and experienced rental company- **Creative Stage Lightings** has recently added the state-of-the-art **DiGiCo SD10** which was purchased from New Delhi based DiGiCo authorised distributor **Hi-Tech Audio Systems Pvt. Ltd.**

"My father **G. R. Srinivas** has been associated with audio and lighting industry for past 4 decades. In last 10 years, I have expanded my father's vision and had undertaken numerous events that vary from TV shows, trade shows, corporate events etc.", shares **Vijay. S** who himself is a well-known sound engineer and owner of Creative Stage Lightings. He continues, "I was aware of DiGiCo's fast growing global reputation. No doubt the console is user-friendly with an intuitive interface and wide range of feature sets. With its high fader count, high input and buss counts and dynamic equalizers, the SD10 is a lucrative addition for our rental stock. I've been also really impressed with everything provided by Hi-Tech Audio Systems, from

the fast turn round on deliver to the fact that they are there as a National Distributor of DiGiCo, to support you."

"This is the new age for rental companies. Competition is fierce, tech rides are avant-garde and their clients have numerous names to choose from for their events", explains Rajan Gupta, Managing Director of Hi-Tech Audio Systems. He further adds, "With our experience and understanding of India's live audio market, we were able to guide Creative Stage Lightings with updating their inventory. DiGiCo SD10 will give the much needed advantage to their business and enhance their live mixing skills."

As a routine after-sales practice, Hi-Tech's Application Engineer for DiGiCo, Vanshaj Sharma has introduced the console's vast features to in-house team of Creative Stage Lightings. **Vanshaj** shares his experience, "They are very amazed by the features of this console and the immense capabilities of SD10, really made them look forward to



Vijay S with Digico SD10

working with it more and more. The huge channel count, the quality of the plugins, dynamic processing and so many more features, all built in the console. I feel the flexibility of this console in terms of the layout, snapshot control and a 15 inch display touch screen with an additional overview screen really helps to make things flawless to work with."

From live shows to corporate events, grand weddings to small events, Creative Stage Lightings provides a 360 degree audio-video

and lighting support to their long list of clients. DiGiCo SD10 will surely boost their work to the next level of recognition.

"With the newly purchased SD10, Batra Sound has strengthened our relationship as business associates. It is our utmost responsibility to support and aware each of our clients about technology and inventory updates. We believe with this approach we can provide the best of DiGiCo in India", says **Nirdosh Aggarwal**, Director Sales of Hi-Tech Audio Systems.

## EIGHTEEN SOUND NOW AVAILABLE AT DEV ELECTRONICS

**Dev Electronics** has announced the availability of **Eighteen Sound's** entire range of products through their outlets at Mumbai and New Delhi.

"Eighteen Sound is recognized the world over for their vast range of high quality and high performance products; and it thrills me to inform that this entire range of products is now available at Dev Electronics at our premier locations in Mumbai and Delhi. We have had enquiries from customers from across the country, and the response has been very positive.

We have a great network already in the North, West, East and South of India, and also have a very capable team with a proven track record of doing complete justice to the brand and maintaining high standards of customer satisfaction. Hence I believe this most definitely is a positive step forward in the right direction for both Eighteen Sound as well as Dev Electronics" said **Dilip Devjani**, director at Dev Electronics.

Established for more than 3 decades ago, Dev Electronics has served as a one stop solution for all pro audio needs, and has also

been heralded as a distribution partner for brands such as Pioneer DJ, Harman Professional, etc and more in the past. And per sources, Dev Electronics will not only have Eighteen Sound's entire range of products available for sale, but will also provide spares, service, and support to customers.

A senior representative of Eighteen Sound quoted, "Dev Electronics is very focused. And now that Eighteen Sound has a vast range of cross-application products, with several new introductions scheduled for the near future, we believe that having

our products available through a reputed name like Dev Electronics will only add more positivity".



# GET<sup>2020</sup> Show

## 10TH GUANGZHOU ENTERTAINMENT TECHNOLOGY SHOW

第十届广州（国际）演艺设备、智能声光产品技术展览会

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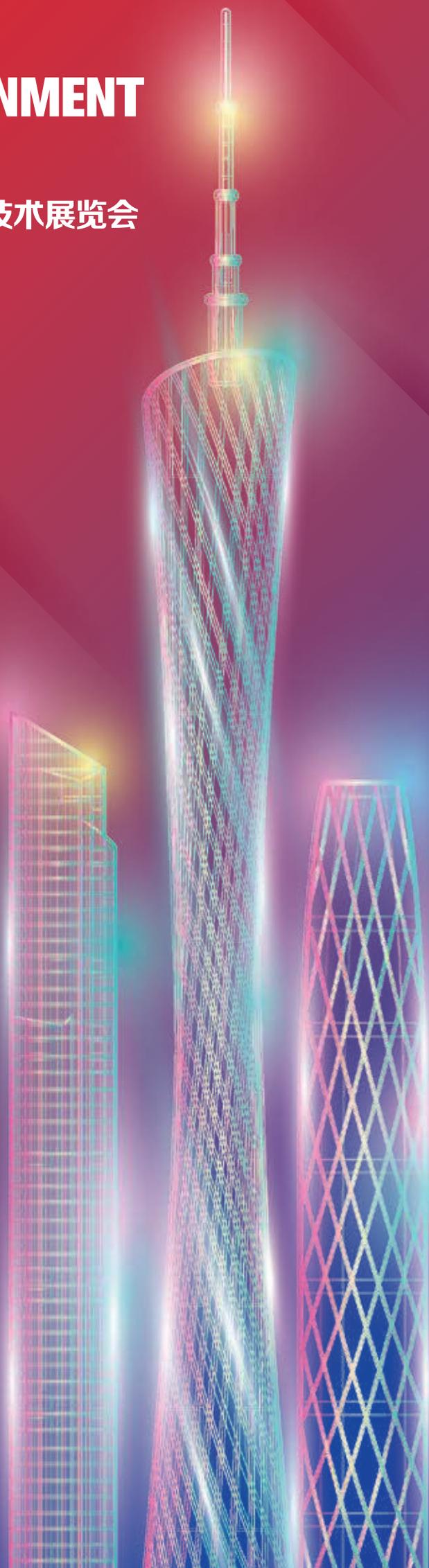
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## DYNATECH ROCKS CHANDRAPUR WITH NG MUSIC

Hailed as a distinguished audio rental company in the local entertainment scene in Chandrapur, NG Music Recording Studio & Sound Rental Company has upped the ante by investing in Dynatech's DVX-225 high performance speakers and its top-notch line array system – the DLA-212. The system has been sourced through Liberty Electronics, a key dealer of

Dynatech products in the region.

**Nikhil Gatlewar**, owner of NG Music shares his comment on the purchase saying, "Our decision to add the Dynatech DVX-225 loudspeakers has by far been the best one yet. They are extremely versatile, powerful and super easy to move around logistically, and extremely high on performance. As for the Dynatech DLA-212 line



**NG Music Recording Studio & Sound Rental Company deployed Dynatech's DVX-225 high performance speakers and DLA-212 line array system**

array, it is absolutely rock solid, and the quality of sound is fantastic. There's absolutely no doubt that these are amazing products, and

we're glad that we've invested in a system that will continue to deliver great quality performance for years to come!"

## HARMAN PROFESSIONAL SOLUTIONS ANNOUNCES JBL EON COMPACT

HARMAN Professional Solutions has announced the new **JBL EON ONE Compact** portable PA system.

The latest addition to the JBL EON ONE range of portable PA systems, the new EON ONE Compact is an ultra-portable, all-in-one PA system with Bluetooth that delivers high-quality sound anywhere, for hours on end. Its 8-inch speaker produces the loudest output and best bass response in its class, and the swappable, rechargeable battery lasts up to 12 hours. Weighing less than 18 pounds with a built-in carrying handle, the EON ONE Compact is easy to take anywhere. A variety of inputs for microphones, instruments and more, plus a four-channel mixer with onboard Lexicon effects and dbx EQ provides ultimate flexibility. Bluetooth connectivity makes it easy to stream music and link multiple speakers, and a handy mobile app for Android and iOS provides intuitive control.

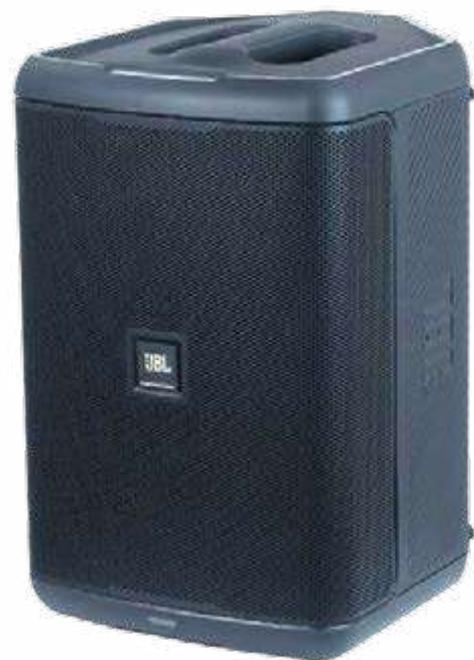
"The EON ONE Compact's impressive volume, bass output, portability, connectivity and control

features make it uniquely suited to a variety of applications, in addition to being the ideal portable PA for musicians," said **Brandon**, Knudsen, Loudspeaker Product Manager, HARMAN Professional Solutions. "Bluetooth connectivity and high-speed USB charging make it ideal for parties and the ducking feature makes it great for voice-plus-music applications like DJing or fitness classes and an excellent solution for quality sound at speaking events."

The JBL EON ONE Compact delivers the loudest output and best bass response in its class. The 8-inch woofer and 1-inch tweeter produce up to 112 dB of output from 37.5 Hz to 20 kHz, providing loud, uncompromising sound with extended low-end. A built-in four-channel mixer makes it easy to dial in a balanced sound, and optional automatic ducking ensures that speech is always heard clearly over music. Advanced onboard Lexicon DSP includes reverb, chorus, delay, with up to eight bands of dbx EQ for supreme versatility.

Designed for ultimate portability, the EON ONE Compact weighs just 18 pounds and features an ergonomic built-in carrying handle for easy transport. Its rechargeable batteries last up to 12 hours, and are easy to remove and replace for non-stop performance. Additional batteries and an external battery charger will be available separately after launch. A standard IEC cable charges the unit in as little as two and a half hours, or six during use. An integrated pole mount allows the EON ONE Compact to be elevated for improved performance in PA applications.

A variety of inputs, mixing features and effects give the EON ONE Compact a high degree of flexibility for different applications. Two combination XLR/TRS inputs with professional-grade preamps and +48V phantom power provide crystal-clear sound for microphones, while a dedicated quarter-inch high-



**JBL EON ONE Compact portable PA system from Harman Professional**

impedance input is perfect for guitars, bass and acoustic instruments with pickups. Bluetooth connectivity makes it easy to stream audio from mobile devices or link up to four speakers via the JBL Compact Control app. The intuitive JBL EON Control app also lets users adjust settings and save and recall presets with ease.

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2" Voice Coil  
Magnet Weight 1.16kg  
Impedance 8Ω



## L12-MB300

12" - 300W RMS  
Mid-Bass  
3" Voice Coil  
Magnet Weight 2.31kg  
Impedance 8Ω



## L15-MB300

15" - 300W RMS  
Mid-Bass  
3" Voice Coil  
Magnet Weight 2.31kg  
Impedance 8Ω



## L15-MB400

15" - 400W RMS  
Mid-Bass  
3" Voice Coil  
Magnet Weight 2.31kg  
Impedance 8Ω



## L15-MB500

15" - 500W RMS  
Mid-Bass  
4" Voice Coil  
Magnet Weight 2.85kg  
Impedance 8Ω



## L15-MB650

15" - 650W RMS  
Mid-Bass  
4" Voice Coil  
Magnet Weight 2.85kg  
Impedance 8Ω



## FEEL THE POWER, FEEL THE PUNCH

## L18-SW650

18" - 650W RMS  
Subwoofer  
4" Voice Coil  
Magnet Weight 3.56kg  
Impedance 8Ω



## L18-SW800

18" - 800W RMS  
Subwoofer  
4" Voice Coil  
Magnet Weight 4.60kg  
Impedance 8Ω



## L18-SW1000

18" - 1000W RMS  
Subwoofer  
5" Voice Coil  
Magnet Weight 5.65kg  
Impedance 8Ω



## L18-SW1300X/V

18" - 1300W RMS  
Subwoofer  
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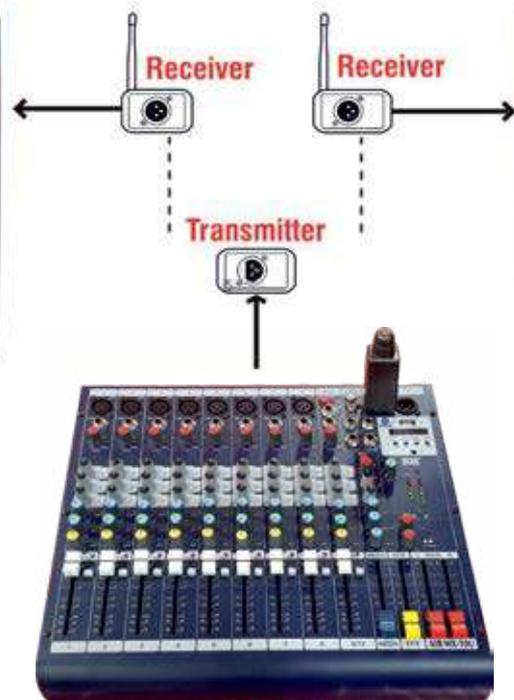
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# MACKIE THUMP SERIES GETS COMPLETE REDESIGN AND EXPANDED LINEUP

Mackie has launched their all-new completely redesigned **Thump Series Powered Loudspeakers** – Thump12A, Thump15A, Thump12BST, Thump15BST and Thump18S. The new 13000W Thump Series delivers more power and reliability than ever, plus a host of convenient features like built-in mixers, speaker modes and much more. Totally new for the Thump Series are two Thump Boosted models, the 12" Thump12BST and 15" Thump15BST. Equipped with advanced digital mixers, wireless control, streaming, and linking capabilities, Thump Boosted offers more versatility and configuration options than ever before at such an affordable price.

"Redesigned from the ground up, the new Thump Series speakers are our most flexible and powerful Thumps ever," remarked **John Boudreau**, Mackie VP of Product Management. "With a choice of four full-range models, plus a companion subwoofer, it has never been easier to choose a Thump system that fits your needs and budget perfectly."

The Thump Series is equipped

with custom-designed, high-output woofers and 1.4" titanium dome compression drivers plus an all-new ultra-efficient amplifier design with Dynamic Bass Response technology and next-generation system protection. So, when you need maximum performance and chest-pounding bass, Thump loudspeakers will always have the power on tap that you need.

The 1300W Thump12A and Thump15A feature a built-in 2-channel mixer equipped with Vita preamps and Wide-Z technology that can easily handle mics, instruments and line level signals without any additional equipment or adjustments. Plus, with four application-specific speaker modes, you can optimize the system for your needs at the push of a button.

Thump Boosted Advanced Powered Loudspeakers take Thump to a whole new level of versatility and control with the Thump12BST and Thump15BST models with advanced DSP, wireless control, linking, and streaming. They include a built-in 3-channel digital mixer that features



two digitally controlled Vita+ preamps with Wide-Z technology, 3-band EQ per channel with variable high-pass filters on Vita+ inputs, and six speaker modes. For convenient control and visibility, the back panel features a crystal clear, high-resolution color display showing channel metering, levels, EQ, and more.

Utilizing the latest Bluetooth technology, Thump Boosted loudspeakers can wirelessly link directly to each other at up to 100 meters for music streaming applications plus give you wireless control over the entire system

via the Thump Connect app. With options for stereo or dual-zone system configuration, Thump Boosted is an incredibly flexible music playback system that is up and running in minutes.

"Advanced DSP and wireless control in a PA system is now more attainable than ever with the new Thump series," says Boudreau, "Combined with the rock-solid amplifier design, acoustic tuning, and gig-friendly hardware, Thump Boosted is a huge leap in versatility and capability in an ultra-affordable powered loudspeaker system."

## BENGALURU GETS ITS FIRST RCF SERVICE CENTRE

Hi-Tech Audio Systems who are the National Authorised Distributor for RCF has recently appointed **Pro AV Labs as RCF's Authorised Service Centre** in Bengaluru. The Italian manufactured audio speakers are the favourites for live shows and venue installations. In India, Hi-Tech Audio Systems was able to build a market reputation for RCF among its clients by providing impeccable pre and post sales service.

Addressing the need created by an increasing customer demand, technological updates and services, **Rajan Gupta**, MD of **Hi-Tech Audio Systems** says, "For past 5 years our service centre in New Delhi was the sole address for RCF technical service support. Pro AV



**Rajan Gupta - MD, Hi-Tech Audio Systems**

Labs is headed by **Santana Davis** of J Davis Prosound & Lighting, one of country's top rental companies based in Bengaluru." He continues, "We have been associated with J Davis for long and we are very much confident to appoint Pro AV Labs as authorised RCF service centre. This appointment will authorise Pro AV Labs to undertake warranty and out-of-warranty repairs as well as sales of spare parts for RCF products. Our aim is to provide continued support to our RCF owners. To achieve this we are keen to associate with efficient companies who understand the standards of RCF and Pro AV Labs is right for this job."

The presence of a service centre in Bengaluru will be convenient for RCF owners of South India. "Rather

than sending their speakers to New Delhi, now our clients from down south can contact Pro AV Labs for repairs. The team of Pro AV Labs are competent, technically updated and proficient who can definitely support RCF clients in south zone", explains **Nirdosh Aggarwal**, Director Sales, Hi-Tech Audio Systems.

Hi-Tech Audio Systems strengthens its comprehensive Pan India service network that is strategically positioned to put the company in lockstep with its customer base whilst complementing the service offering from Pro AV Labs team. The service partner will have access to RCF parts locally and will follow the company's procedures to service products and diagnose and fix faults.

[www.palmtechnology.in](http://www.palmtechnology.in)

## Powered System

### AC-28 & MP-18B3

Two way Line Array Speaker & Powered Sub-woofer



### AC-210

Two way Powered Line Array Speaker



### AC-112

Two way Powered Line Array Speaker



### AC-12

Three way Powered Line Array Speaker



### AC-218B

2\*18" Powered Horn-Loaded Sub-woofer



### AC-212

Three way Powered Line Array Speaker



### XP-SERIES DSP



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MAC-7202D



MAC-8202D



### MA-D SERIES POWER AMPLIFIER

MA-7200D



MA-8200D



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## MARTIN AUDIO APPOINTS VMT AS EXCLUSIVE DISTRIBUTION PARTNER

Martin Audio has appointed Vardhaman Megatech Pvt. Ltd (VMT) as its exclusive distribution partner for India.

The appointment was confirmed by David McKinney, managing director of Generation AV, who undertakes Martin Audio sales strategy, account management and technical support duties in the Asia Pacific territory. "VMT has strength in all the vertical markets that Martin Audio is present in including both Touring and Installation," he stated. "VMT is headquartered in Mumbai but have teams all across the country to ensure Martin Audio customers have quick support across all parts of India.

Having a dedicated team will enable VMT to provide special support and attention to all Martin Audio customers in India. We are proud to be working with such an established distributor, with a rich history in professional audio," he added.

Martin Audio will join VMT's Distribution Division, which is focusing on building a nationwide distribution network, thereby enabling transparent and quick logistics, support and sales. "VMT Distribution was set up with the goal of ensuring the presence of high-quality brands in the rapidly growing Indian sub-continent. In particular, we aim to promote

growth in the two and three tier cities," said Mitul Soni, National Sales Manager, VMT Distribution. "We are absolutely honoured to work with Martin Audio and are confident of replicating their global success in India."

His sentiments were echoed by Sushil John, Executive Director, VMT Distribution. "Martin Audio is a perfect match for us. Their vision to innovate and produce world leading equipment matches our values of providing the best in music technology to our customers. We're excited by what the future holds for us."

VMT will receive full support of Generation AV, who have been boosted by the arrival of the experienced Sanak Pandit; he will work hand in hand with the VMT team to provide on the ground support for Martin Audio's customer base. Said David McKinney, "Sanak has a strong background in the touring market from his time at SD Audio and V&P Sound, and so he is able to hit the ground running. Sanak will be based in Bangalore."

VMT say they are particularly excited by the arrival of WPS, the fourth model in the award winning and best-selling Wavefront Precision optimised line array series.

Dom Harter, Martin Audio MD, rubber stamped this. "With the expansion of the Wavefront Precision Series, and the versatility of the MLA series generally, Martin Audio now



VMT's Distribution Division will focus on building a nationwide distribution network, thereby enabling transparent and quick logistics, support and sales

has a full line up for the touring and performance market. It is therefore gratifying to see that VMT will be drawing on its long history and strong relationships in the market to focus their efforts on these

segments.

"VMT and Martin Audio will work closely together to ensure we offer top class support to all Martin Audio customers in India. It bodes well for an exciting future."

## EARTHWORKS ADDS TO SR314 VOCAL MICROPHONE STYLING OPTIONS

Earthworks' SR314 Vocal Microphone is now available in three combinations: stainless steel, black coated stainless steel with a black windscreen and black coated stainless steel with a stainless windscreen.

Key features of the SR314 include rich open natural sound captured in a tight cardioid polar pattern that is consistent throughout the full frequency range. 145dB SPL handling and an extended 20Hz-30kHz frequency response are the footnotes on a vocal microphone as brilliant and striking as the rest of the instruments onstage.

The SR314, SR314-B, and SR314-SB



ship with an MC4 microphone clip and 8.5-inch padded protective bag.

## WAVEBURG PRO UNVEILS PROFESSIONAL P.A. EQUIPMENT, FULL LINE

Waveburg Pro has announced a full line of professional P.A. equipment, ranging from coaxial ceiling speakers to a full-on tour/install ready line array rig. The flagship LA8 line array (shown here) puts two 1" exit compression drivers on a unique 120-degree dispersion wooden waveguide and two high-efficiency 8" woofers in a compact 55-pound, birch-ply enclosure. A matching, flyable 15" LA15S subwoofer is also offered

and options include custom road cases, a range of rigging hardware and white or architectural RAL colors.

Also offered are the Big Blue and Big Blue LTR medium and long-throw systems for stadium and large venues; the MCX15 and MCX12 coaxial stage monitors. A full line of point-source speakers — the Live 12, Live 12, SYM10; the installation-specific i12, i15, iCX8R and iCX8C. All include fly points and are constructed from multi-layer birch plywood.



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## ALLEN & HEATH ANNOUNCES THIRD INSTALLMENT IN 96KHZ MIXER TRILOGY: AVANTIS

Allen & Heath has revealed its new 96kHz digital mixer, **Avantis**, the third to be based on the company's XCVI FPGA engine. Avantis puts Allen & Heath's next-generation technology in a 64 channel / 42 configurable bus consoles, with twin Full HD touchscreens, extensive I/O options and processing from the company's flagship dLive mixing system.

"Joining dLive and SQ, Avantis completes our trilogy of next-gen 96kHz consoles," says **Rob Clark**, Allen & Heath's Managing Director. "Avantis takes many of the features that have made SQ and dLive so popular, putting them in a standalone 64-channel mixer that offers a new UI experience, connectivity with our Everything I/O ecosystem, and the dPack option which gives you access to our advanced dLive processing options if and when you need them.

"On top of that," adds Rob, "we've taken a new approach with the industrial design, coming up with a full metal chassis that's super-strong, lightweight and looks fantastic."

Encased in its alloy shell and tubular frame, the Avantis control surface is centered on the two

Full HD touchscreen and their corresponding rotary controls.

"Having two touchscreen isn't a new concept, but we realised we could use it to unlock exciting new possibilities, which led us to develop Continuity UI," says **Andy Bell**, Allen & Heath's R&D Director.

"Within seconds of getting hands-on with Avantis, engineers are going to appreciate the seamless flow between the physical controls and the on-screen software. You can work gains and pans on the rotaries, then at the touch of a soft key switch to EQ or dynamics across the whole strip. The console also provides a highly configurable FastGrab tab on the right-hand side of each screen, offering another way to quickly and easily access control of aux sends, EQ, compressor and FX on the currently selected channel or spot channel.

"Ultimately, with Continuity UI, the engineer decides how they'd like to work, not the mixer."

While many users will choose to pair Avantis with the 48 in / 16 out GX4816 audio expander, Avantis is part of Allen & Heath's Everything I/O ecosystem, which means whether you're an owner/operator looking to build a compact system, or a rental company with existing Allen & Heath

stock, Avantis allows true flexibility by connecting to a huge range of audio expander hardware. Avantis is also compatible with Allen & Heath's range of ME Personal Mixers and IP hardware remote controllers.

For local I/O, Avantis is well equipped with 12 XLR analogue inputs, 12 XLR analogue outputs, plus AES (Stereo In, 2x Stereo Out). Two additional I/O Ports allow Avantis to benefit from the full range of current dLive option cards, including Dante (64x64 and 128x128), Waves, gigaACE, MADI and more, expanding the scope for system integration, FoH / monitor splits and multitrack recording.

Right out of the box, Avantis is loaded with processing tools designed to meet the demands of most users and applications, including compressors, EQs and Allen & Heath's acclaimed RackExtra FX units (12 slots). Upgrading to dPack expands Avantis further with additional dLive processing including the Dyn8 dynamics engine (up to 16

instances), DEEP Compressors, and the Dual-Stage Valve preamp. dPack purchasers will automatically receive all future DEEP and FX updates free of charge, future-proofing their investment.

"In the gap between SQ and dLive, the mixer market is littered with 48kHz DSP-based 'old-school' consoles," says **Nic Beretta**, Allen & Heath's Head of Product.

"Avantis brings next-generation



performance across the board. Customers in venues, houses of worship, touring and the rental market are going to be seriously impressed by how well this ticks the boxes. It's a really exciting mixer at a compelling price."

## RCF TT 08-A II & HDL 50-A 4K NOW SHIPPING

Pro audio solutions manufacturer RCF has announced that their **TT 08-A II** loudspeaker & **HDL 50-A 4K** line array are now shipping.

RCF's TT 08-A II active two-way loudspeaker is now shipping. The smallest member of the TT+ family, the speaker is suitable for applications from live sound to playback and

monitoring, corporate events and broadcast studios.

The TT 08-A II offers a maximum sound pressure level of 128dB; onboard DSP provides linear phase filters and crossover, system equalisation, polarity control, fast limiter, RMS limiter and configuration control from the back panel or advanced management via RNet. The advanced FIRPHASE filtering algorithm optimises dynamics, amplitude and phase patterns while ensuring minimum system latency.

Onboard DSP provides linear phase FIRPHASE processing, system equalisation, polarity control, fast limiter, RMS limiter,

and configuration control. All features are accessible and adjustable on the rear panel or remotely via RNet networked management.

The TT 08-A II offers high sound pressure levels with clarity for use as a main system or in-fill speaker. The cabinet is made of Baltic birch plywood coated with a heavy-duty polyurea paint, making it highly resistant to external damage.

On the other hand, reportedly, HDL 50-A 4K is the company's most powerful HDL line array module, with an internal amplifier pushing 8000W peak power under the hood. The amplifier module is available as an upgrade for current HDL 50-A owners, the company has said.



The HDL 50-A 4K is an active three-way line array module designed for large-sized events, indoors and outdoors. It features a sound pressure level of 143 dB SPL with a built-in Class-D 4000 W RMS four-channel amplifier. Equipped with eight transducers, it offers playback quality ideal for high performing musical applications. The proprietary 90 x 10° 4PATH waveguide, paired with the symmetrical design of the cabinet delivers coherent coverage. Each of the four 4K amplifier modules operates at very low impedance producing a quick and detailed transient response, while the high damping factor improves sound quality and detail.



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## DIGICO MIXOLOGY TOUR 2019 KICKS-OFF FROM KOLKATA

The city of Kolkata has always been a hub of culture and entertainment. It's one of the favourite venues for Bollywood as well as other commercial artists. Major audio rental companies of Kolkata frequently update their inventory and Digico is now a popular brand among these companies. Most of the live mixing

initiative by Hi-Tech Audio Systems. "We wanted to educate our clients and prospective customers about the capabilities of Digico SD-Series consoles. To be ahead in competition it is very important for us as well as for our clients to stay upgraded about new features. Such trainings also help technical teams of rental



Digico Mixology Tour 2019, Kolkata

engineers of Kolkata prefer Digico in their tech-ride. But the market is always open for other console competitors. Thus to aware and educate the rental owners as well as audio engineers of Kolkata, **Digico Mixology Tour 2019** is now on the road starting off from Kolkata. The training was conducted by India's leading Live Mixing engineer – Fali Damania and the event was an

companies improve their operating skills on Digico consoles", explains **Rajan Gupta**, Managing Director of Hi-Tech Audio Systems. He continues, "Fali Damania is well-known in the industry and his knowledge about Digico is vast. His approach to impart right technical know-how is appreciated by budding live mixing engineers and industry veterans." Fali Damania shares his experience

about the Kolkata session, "It was an absolute pleasure to spend an entire day with the sound engineers and Sound Vendors from Kolkata. Nothing could be better than talking Audio-tech on an open platform, and sharing my Digico Console approach and workflow. Thank you all for turning up and huge thanks to Hi-Tech Audio Systems for putting together this event."

Another highlight of Digico Kolkata session was the 3D In-ear mixing technology Klang. "This was a very much awaited session by us as well as all the industry people in Kolkata. It turned out to be such a good response for these consoles. Everyone was really excited to see the workflow on DiGiCo that too along with Fali, as the experiences and applications he has for his shows are all such good things to experience and learn", says **Vanshaj Sharma**, Application Engineer, Hi-Tech Audio Systems. Further he shares, "Along with which people were really excited to see and learn a little more about KLANG technologies integration on DiGiCo consoles, for which we had organised a small introductory session which actually left all the people with their jaws dropped, The working of this product is so simple as is the concept, but to produce this simplicity the kind of hard work goes behind is amazing. It's the most natural way of hearing something through IEMs, which leaves everyone happy and fatigue free due to letting our mind function how it's designed to and not feeding the cluttered stereo information."

## DPA MICROPHONES UNVEILS NEW 2028 VOCAL MIC

DPA Microphones added a new member to its microphone lineup, the **2028 vocal** microphone. The 2028 delivers for live stage performances, broadcast and pro AV applications.

Reportedly, 2028 has been cohesively designed to provide the same sound as the brand's flagship handheld mic, the 4018 VL. It has also been optimized, like the 4018, for the unique challenges of the live stage.

"We have seen a need for an excellent vocal microphone that has the sonic qualities of our d:facto 4018 Series, but at a lower price-point," says **René Mørch**, product manager, DPA Microphones.

2028 features a brand-new fixed-position capsule, as

well as a specially designed shock-mount and pop filter. It exhibits a supercardioid polar pattern, with the DPA uniform off-axis response. This gives the microphone high-gain-before-feedback and makes it easier to handle bleed from other instruments in close proximity, picking up sound in a natural way.

"We've designed this mic so that it sounds like the singer isn't actually using a mic," adds Mørch. "You get the full, natural sound of the artist's voice, not what the microphone

'thinks' the artist sounds like. This gives the sound engineer a lot of freedom to be creative – and instead work on crafting a unique sound for the performance based on a clean, natural vocal track."

With the expected wear-and-tear that comes with live performances, both the outer grille and the inner pop filter of the 2028 can be detached and rinsed. The 2028 comes in three variants; a wired XLR with handle and two wireless mic configurations that are compatible

with the industry's most widely used wireless microphone systems. This includes the SL1 adapter, compatible with

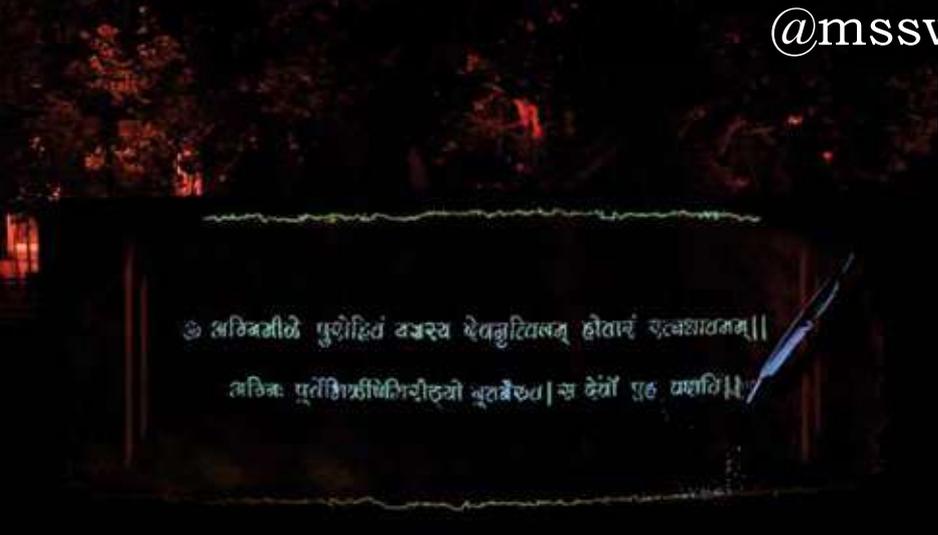
Shure, Sony, and Lectrosonics; and the SE2 adapter, compatible with Sennheiser.



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## L-ACOUSTICS OPEN DAY IN INDIA

Hi-Tech Audio Systems Pvt. Ltd., known as one of the top distributor & service provider of Professional Audio Video & Lighting System has recently organized “L-Acoustics Open Day” event, the launch & demo sessions of A15 series in Mumbai & New Delhi.

As the market leader in premium professional sound systems, L-Acoustics takes pride in developing effective and benchmark solutions that enable audio professionals as well as artists to elevate the audience experience. Going forward with their mission to provide the best and reliable, L-Acoustics introduced the new generation of ARCS family. The ARCS family comprises four constant curvature enclosures—**A15 Focus, A15 Wide, A10 Focus, A10 Wide**—and a dedicated subwoofer, **KS21**.

These sessions at Mumbai and New Delhi was conducted by **Peter Owen**, Sales Manager, L-Acoustics, France and was technically assisted by L-Acoustics Application Engineer, Ian Fellbom.

Mumbai event took place at St. Andrew’s Auditorium. The event was attended by top notch rental companies and audio engineers of India. The main focus of the event was to promote A15 Focus and A15 Wide, a series that has long history of existence. Peter Owen, Sales Manager of L-Acoustics says, “In 1995 L-Acoustics introduced the ARCS system - a system that delivered line source benefits in a constant curvature package that was easy to deploy, readily scalable and had the unique ability to be arrayed horizontally or vertically. The second generation of ARCS (ARCS II) delivered performance improvements, while the later

addition of ARCS Wide and Focus offered greater flexibility with 2 enclosure angles and symmetrical directivity. That brings us to today - with the latest generation of ARCS products that integrate many of L-Acoustics’ pioneering technologies

*(Continued on page 30)*



Hi-Tech Audio Systems Pvt. Ltd. set up for “L-Acoustics Open Day” event in New Delhi



Peter Owens Sales Manager, L-Acoustics, conducting the event in Mumbai. He was technically assisted by L-Acoustics Application Engineer, Ian Fellbom.

## PIXELFLEX INTRODUCES FLEXULTRA XT LED VIDEO

PixelFLEX has launched FLEXUltra XT offering unparalleled design potential for live event production with its ultra high-resolution pixel pitch options, all-in-one optional ground support system, and the innovative PixelShield protective technology for a long-lasting and dynamic LED video experience.

“Understanding the challenges associated with the live production

industry and the toll it can take on LED video panels, we are very excited to be releasing the durable and impactful FLEXUltra XT,” said **David Venus**, Chief Marketing Officer, PixelFLEX LED. “Now, not only can video designers be sure they have chosen the ideal technology to fully bring their HD video designs to life, but they can also rest easy knowing they have a technology that was

built specifically to alleviate the onsite technical obstacles that may occur using common LED video displays.”

With each panel conveniently designed in a perfect 16:9 ratio, FLEXUltra LED is available in 1.5mm, 1.9mm, and 2.5mm pixel pitch options and comes standard with the PixelFLEX impact-resistant COB PixelShield technology to withstand the high demands of the production

world. Additionally, the front serviceable modules make it easy to keep each panel looking its best, and the easy Z-Axis adjustments guarantee that your screen is always seamless. Utilizing magnetic connections and auto-locks, the FLEXUltra XT turns vertical rigging into a one-person job, and the optional ground support system is complete with built-in levels and self-leveling footers.

# zoom



## LIVETRAK L-20

DIGITAL MIXER + RECORDER

The LiveTrak™ L-20 is the new digital console offering everything creators need to mix, monitor, and record complex productions. With 20 discrete audio channels and six individual custom monitor mixes, it's built for bigger, bolder arrangements.



## LIVETRAK L-12

DIGITAL MIXER + RECORDER

With the LiveTrak L-12, you can finally mix, record, and monitor with a single piece of gear. It's the only digital console that lets you mix your live performance and record up to 12 discrete channels—all while providing five individual custom headphone mixes.

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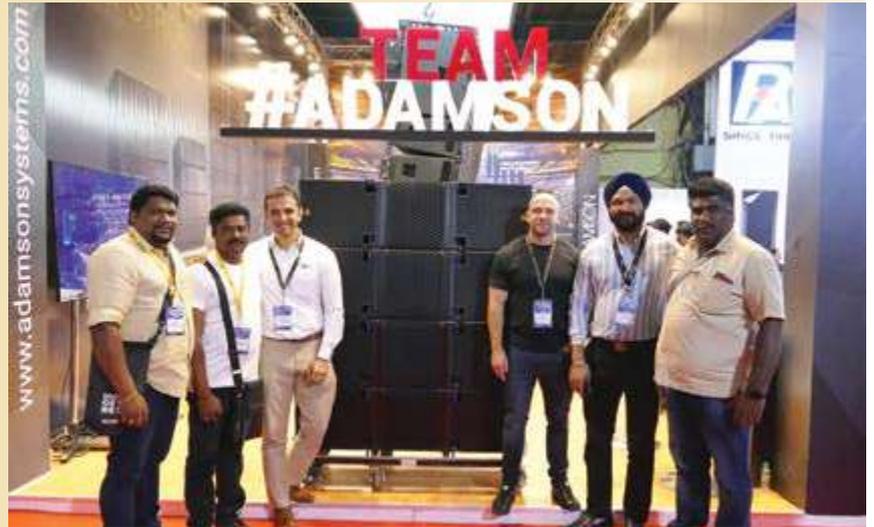
## RENTAL COMPANIES CONTINUE TO INVEST IN ADAMSON SPEAKERS

**REC Pro Sound & Light Pvt. Ltd, Kerela:** A leading professional audio and lighting rental company, REC Sound & Light is known has recently become a part of the Adamson network with the recent purchase of a large inventory comprising **E15** and **S10** line arrays complemented by **E119 subwoofers**, all powered by **Lab.gruppen's** industry leading **PLM20K44** amplifiers. The sale was directed by Sonotone, Adamson's distributor in India.

"We pride ourselves in staying at the head of new technology and trends to ensure that our customers benefit from the best," comments **Mr. Vigesh of Rec Sound & Light**. "Adamson

products are very versatile and provide a solution for all applications. They offer more power than any other cabinet in a compact package, and the sound is phenomenal."

**Karan Nagpal**, director of Sonotone shares, "Rec Sound & Light is a cutting edge rental company that has earned a reputation for investing in state-of-the-art gear. With this purchase, it makes the E15 - Winner of the 2019 Worldwide Reader's choice line array of the year - one of the largest 'A' league dual 15" line arrays in India. I thank Mr. Raghu Ramankutty for helping explain the technicals and reviews of the



**REC Pro Sound & Light Pvt. Ltd and Sonotone team together**

system to our new clients from his hometown. We are delighted to

have Rec Sound & Light join the Adamson network."



**Karan Nagpal and Eshdeep Bhasin with Jasjeet Singh from E2Tech**

**E2Tech, Mumbai:** - The company has invested in a new Adamson sound reinforcement system, making them the latest company to join the Adamson network. In total the company added 24 S10 line array modules and 12 S119 subwoofers, all powered by Lab.gruppen's PLM series amplification. The sale was directed by Adamson's distribution partner Sonotone and LBT Lighting.

"Our dream is to deliver hassle-free, highly competitive, world-standard technical solutions to our customers," explains **Jasjeet Singh** of E2Tech. "We were looking for a line array system to expand our inventory and the S10 is exactly what we needed - it sounds terrific, is easy to use and looks great. The S10 is small in size

and weight with the output power of a larger system."

**Karan Nagpal**, director of Sonotone shares, "E2Tech has earned a reputation for insisting on the highest technical standards. Their investment reflects a growing demand for Adamson loudspeaker systems on a global level. We are delighted to have them as Adamson S-Series partners."

"We're proud to have bolstered our sales network with the recent addition of some great partners, and E2Tech certainly continues that trend," comments **Eshdeep Bhasin**, director of LBT Lighting. "We look forward to seeing their business expand as they deploy their new systems."

**Sound.com, Mumbai:** The company has recently taken delivery of an additional 24 **Adamson S10** loudspeaker cabinets, making their total S10 inventory to 72 cabinets within 6 months. Sound.com became the first E-Series partner in India to join the Adamson network. The company substantially expanded their inventory in the subsequent month.

"The marketplace recognition and appeal for the Adamson S10 continues to grow," says **Warren Dsouza**, owner of Sound.com. "It seems that every engineer that uses the system becomes an immediate admirer. This box has opportunity for way more dynamic

range, way more clarity and way more punch, that we keep needing more and more of them."

"The S10 is small in size and weight with the sound and output power of a larger system," adds Warren. "It is a great fill when used in conjunction with the E-Series and proves to hold its own even when used as a standalone system."

"Sound.com is a leader in the audio industry," says **Karan Nagpal**, director of Sonotone. "Their continuous support of Adamson is indicative of the path they see the live sound market headed. We are very pleased with our ongoing partnership and look forward to it growing in the future."



**Warren D'souza from Soun.com**

**LED Solutions, Ahmedabad:** In order to bolstered their inventory with an investment in Adamson Systems Engineering's E-Series and S-Series loudspeakers. The systems were supplied by Adamson's Indian distributor Sonotone and LBT Lighting. LED Solution's new Adamson package is comprised of 24 E12 line array enclosures, 16 E219 and 4 E119 subwoofers, 12 S10 compact two-way full range enclosures, and 8 M212 monitors alongwith 6 E-Racks each with 3 Lab.gruppen PLM20K44 amplifiers.

"Adamson just sounds great," comments **Keval Adhvaryu** of LED Solutions. "The E-Series packs a lot of punch while offering crisp clean sound, naturally we were blown away by their performance." Dixit Ghoda adds, "We're thrilled to offer Adamson systems to our clients. These boxes are lightweight, compact and sound

incredible at any volume." Ashish Sharma also notes that the service and care received from Sonotone, LBT and Adamson has been impressive and only goes to prove they made the right decision in choosing Adamson.

"We are happy to welcome LED Solutions Ahmedabad to the Adamson network," says **Karan Nagpal**, director of Sonotone. "They have made a reputation as a rental company that consistently invests in new innovative gear, and we look forward to supporting them in their mission of providing premier systems to their customers."

**Eshdeep Bhasin**, director of LBT Lighting shares, "After receiving delivery of their Adamson systems – the LED Solutions team were quick to put the system into action. I am glad that it has made a positive difference in their sound and would like to thank Nitesh Narayan for training and ground support."



LED Solutions, Ahmedabad team with sonotone team



From Left to Right: Sachin Agarwal, Eshdeep Bhasin, Harry Kaushik, Ayumi Hanano & Nitesh Narayan

**Showmaker, New Delhi:** They have cemented its status as one of top production suppliers by boosting their inventory with a fleet of **E12 three-way line array enclosures & E219 subwoofers** from **Adamson Systems Engineering**, powered by **Lab.Gruppen PLM20K44 amplifiers** and **Elephant cables** from **Sommer Cable**, Germany. Adamson's distributor in India, **Sonotone** and **LBT Lighting** made the sale and provided Showmaker staff with extensive training conducted by **Ayumi Hanano**, APAC Education and Support Coordinator.

"Adamson has a global reputation as a premium audio brand, and the Indian market is promptly catching onto the quality associated with it," comments Showmaker Owner **Harry Kaushik**.

"The E-Series has exceeded our expectations in terms of sound and performance. The support we have received from Sonotone, LBT, and Adamson has been world class and I appreciate having that depth of support to go with such a great sounding system."

"Showmaker is a one stop event solution company, with complete in-house inventory providing fabrication to AV technical solutions. We're elated to welcome them as an E-Series partner and newest member of the Adamson Network," comments **Eshdeep Bhasin**, Director of LBT Lighting. "The response we've had to the Adamson brand has been very exciting, and we look forward to working with Showmaker to further Adamson's presence in the Indian market."

**Agrawal Sound & Lights, Indore:** Addressing the rapidly growing demand for premium loudspeaker systems in India, the company has joined the Adamson Network with the purchase of the **Adamson E-Series** performance system comprising **E15, E119** as well as the **S10** with E-Rack solutions powered by Lab.gruppen PLM20K44 amplifiers.

**Ayumi Hanano**, Education and Support Coordinator Asia-Pacific for Adamson, presented four days of training to the company after they took receipt of their new sound systems. She alongwith **Nitesh Narayan** provided a complete overview and instruction ensuring its staff is fully prepared to support their customers.

"Adamson products are very

competitive in the Asian market and we look forward to expanding their presence in India," explains **Anoop Agrawal** of **Agrawal Sound**. "The E-Series boasts excellent sound clarity and even coverage, and packaging it with the E-Rack, ensures a rock-solid performance and great reliability."

"We are extremely pleased to welcome Agrawal Sound & Lights to the Adamson network," says **Karan Nagpal**, director of Sonotone. "They have made a name in the list of top providers of production technologies providing turnkey audiovisual solutions and we look forward to supporting their future success with Adamson. We would also like to thank Ayumi Hanano and Nitesh Narayan for all the training and support provided."



Agrawal Sound & Lights, Indore

**PALM Expo 3<sup>rd</sup> Lighting Design Showcase 2019** objective was to engage maximum designers visiting PALM-Provide designers an experiential template. Lighting Design Showcase team conceptualized 'Open Platform' with fantastic results



# LIGHTING DESIGN SHOWCASE

*Lighting design showcase gave nearly a 1000 lighting engineers invaluable experiential opportunity at the expo*



**Anil Chopra, Founder  
Director of PALM expo; Ulhas  
Sahasrabudhe, Lighting Design  
Showcase Producer and Smita  
Rai, Project Head – Features,  
PALM expo, conceptualizing the  
lighting design showcase 2019**

In 2019, PALM expo upped the ante at the Lighting Design Showcase with a one of its kind remarkable and ingenious Spider lighting rig. The feature was created to provide a platform to lighting designers from across India to showcase their talent.

For the third consecutive year, **Ulhas Sahasrabudhe** and his team at **SSL Media** produced the **PALM Lighting Design Showcase** with **Aloysius Dsouza** as the Head Lighting Designer at the helm of the showcase. The design element for the 2019 showcase was programmed around a "Pixel Spider" wherein every single fixture on the rig was treated as an individual pixel to form a big group of pixels. A total **80 moving**

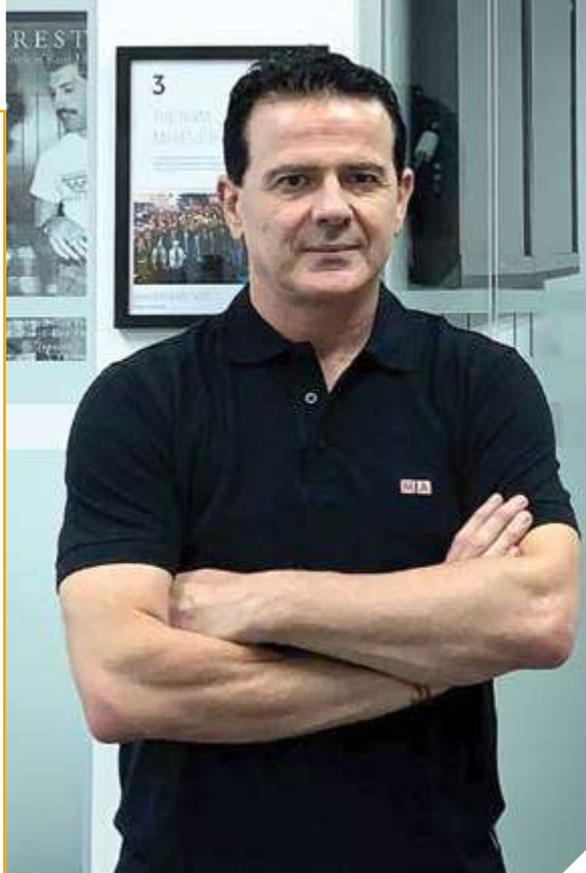
“ We could do the spider because we could individually control the pixel. It could have turned into anything if we had not been able to control it. We put two consoles, one running on one generator and the other running on another generator so that if there is any problem in the incoming power, we have the other console on standby. It was a combination of good fixtures, very good software and putting it together.”

MA Lighting is glad to be involved in the lighting design showcase at PALM Expo. It's a great idea and it's an activity that seldom is offered worldwide in such kind of events. The showcase attracted many Lighting designers across India, giving them an opportunity to get hands on experience of MA Lighting console.

This unique showcase, which featured lighting choreography, truly displayed lighting designer's programming skills, innovative, visual imagery and creativity using the fantastic feature of grandMA.

We want to play a part in the Lighting Design Showcase again next year with the new great platform we have launched, the grandMA3; the software V1.0 will be launched very soon and it will be a great chance to play with the MA software which is going to be a game-changer in the panorama of lighting controllers. This activity of Palm Expo deserves all our support and efforts; we will be there. ”

**FRANCO ZAGHINI,**  
Director of Business Development,  
MA Lighting International GmbH



used for the lighting showcase were also used and treated as single pixels.

“The PALM Light Design Showcase was very good this year. SSL had created a concept called Pixel Spider wherein we made a Spider design element out of pixels, which we were controlling through software. If there are 80 moving heads, we patched them as one single pixel. Every lighting fixture was treated as a single pixel and choreographed in a timeline,” said Ulhas Sahasrabudde.

“To put it in layman's terms, every pixel can be spoken to and told what to do, when and how in a complete choreography. I can for instance speak to pixel number 50 and tell that particular pixel to turn a particular colour at a particular point in time and the pixel can respond back to the console individually. It is phenomenal!” he adds.

The unique showcase of lighting choreography, which involved creating a Pixel Universe, was accomplished by exploiting the **grandMA 2** lighting console and controlled through the **Madrix Software**. A huge number of aspiring lighting designers got a fantastic opportunity for hands-on training on the grandMA 2 and Madrix. “SSL has eight-licensed Madrix software keys. Though visitors were not aware how to use it to the fullest, the PALM Lighting showcase gave them access to the Madrix keys, which opportunity otherwise would have been difficult to get,” says Sahasrabudde.

“We could do the spider because we could individually control the pixel. It could have turned into anything if we had not been able to control it. We put two consoles, one running on one generator and the other running on another generator so that if there is any problem in the incoming power, we have the other console on standby. It was a combination of good fixtures, very good software and putting it together.”

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### Open House Platform

This year PALM expo and Sahasrabudde reinvented the lighting showcase by converting the showcase into an open house platform with an aim to make it more interactive and encourage more visitor engagement. It gave

“ Indian Lighting Designers are world class. Their technical expertise exploits consoles and software to the limit of creative excellence. Entertainment lighting scene offers the world's best equipment and top-end lighting structures. PALM Lighting Design Showcase is meaningful providing impulse and impetus to investment in the latest technology by leading rentals. Focus on new innovation in lighting attracts decision makers and buyers. ”

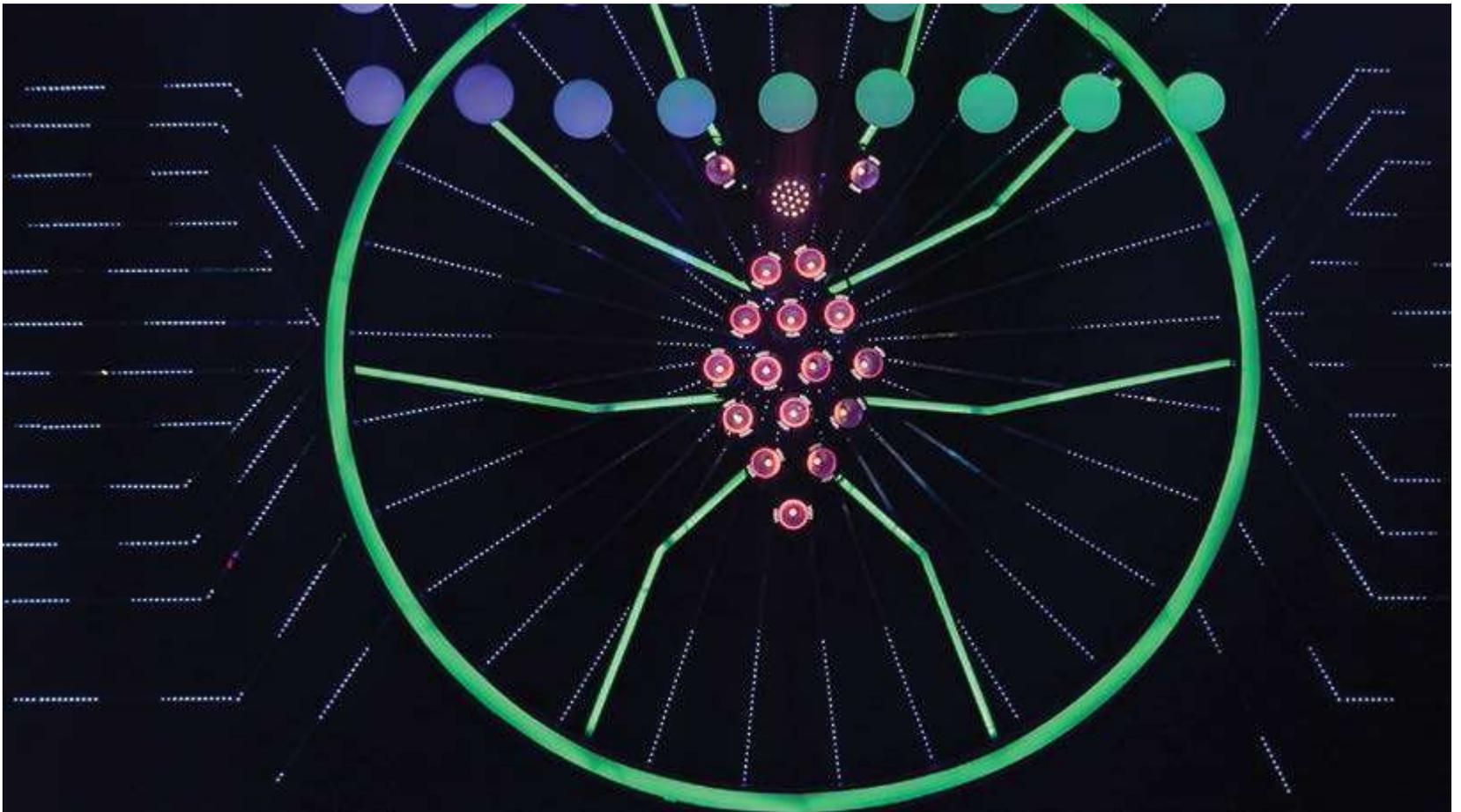
**Anil Chopra,**  
Director, PALM expo

young engineers a fantastic opportunity and the concept was a complete success. Besides being mesmerized by the design element at the showcase, visitors were fabulously engaged as the showcase. The platform gave lighting engineers from across the country an opportunity to be creative with the Madrix software and MA lighting console. Thus, the thematic design of the Spider had meaning, in that, visitors were able to experience the console and software.

There wasn't a single empty moment during

fixtures were placed in a ceiling grid.

**800 Pixel Bars** and **86 Kinetic Balls** especially imported for the lighting showcase drew visitor's attention to the Lighting Showcase. Each ball and pixel bar, along with **120 LED COB Pars**



The design element for the 2019 showcase was programmed around a “Pixel Spider” wherein every single fixture on the rig was treated as an individual pixel. 800 Pixel Bars and 86 Kinetic Balls were especially imported for the PALM Lighting Design Showcase

the three days of the lighting showcase, as hundreds of people gathered to experience the console and the software first hand. At any given point in time, there were groups of people waiting for their turn.

“The open house clicked as we were letting young lighting designers programme the lights. We had a great turn out and visitors loved the design element at the Lighting Design showcase. The response was fantastic, especially from tire two and three cities. The Open House concept helped a lot. Many young designers who were not comfortable participating in a competition, made best use of this fantastic opportunity provided to them in the PALM Lighting Design Showcase. It allowed people to

“ The PALM Light Design Showcase was very good this year. SSL had created a concept called Pixel Spider wherein we made a Spider design element out of pixels, which we were controlling through software. ”

Ulhas Sahasrabuddhe

act with a lot of freedom. They were making programming mistakes but getting out of their mistakes organically. Although three days is too short for someone to learn something, visitors and lighting designers were able to try their hands on the console and learn the bare basics. It also became a photop or selfie corner and when this happened, we put some warm lights on the truss,” concludes Sahasrabuddhe.

To participate in the PALM Expo Lighting Design Showcase 2020, write to Smita Rai at [srai@palmexpo.in](mailto:srai@palmexpo.in)

## L-ACOUSTICS OPEN DAY IN INDIA

(Continued from page 24)

to refine and enhance this solution - dramatically elevating flexibility and scalability in a package that is incredibly easy to deploy.”

Ian Fellbom shares his experience, “It was my first Open Day in India. Both Mumbai and New Delhi had contrasting venues for the set-up. The technical team of Hi-Tech Audio Systems did a great job with the indoor and outdoor installations in New Delhi. I met few of the renowned rental companies and audio engineers

during the two cities

L-Acoustics Open Day. Thanks to Hi-Tech Audio Systems for all the efforts and support to make this event happen.”

“The journey with L-Acoustics till now has been remarkable”, says Rajan Gupta, Managing Director, Hi-Tech Audio Systems. He continues, “This was our first L-Acoustics Open Day in India and we are overwhelmed by the response. With the new A15 series, we are able to reaffirm our commitment to

provide the best to our clients and also connect with new prospects. In Mumbai we have showcased the products in an auditorium environment whereas New Delhi displayed same series in an open venue.”

A15 is based upon the strong foundations of ARCS system, but L-Acoustics has improved every design aspects and went beyond. L-Acoustics took a leap forward in sonic performance, developed a much simpler integrated rigging system, reduced weight, drastically increased coverage flexibility and even extended the throw distance of

the A Series system.

To conclude, Director Sales of Hi-Tech Audio Systems, Nirdosh Aggarwal says. “It is always exciting when you get an opportunity to showcase world-class brands’ products for live. You connect with your clients, associate with new clients and together you plan greater success. The recent L-Acoustics Open Day was a learning experience for our team too. We hope to organize more demos and trainings in coming times as we believe such events act as catalyst for our sales agenda.”



# R-4 Series

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## POINT SOURCE PRECISION MEETS ADAPTIVE WOOFER TECHNOLOGY IN NEWLY EXPANDED 'THE ONES' FAMILY

Genelec has expanded **The Ones** series of Ultimate Point Source Monitors to bring uncompromised precision listening to a much wider range of room sizes, listening distances, and SPL requirements.

The announcement of the new 8351B and 8361A coaxial three-way monitors alongside the complementary W371A Adaptive Woofer System means that The Ones family now delivers uniquely uncoloured and neutral reference monitoring performance - from ultra-nearfield through to mastering-caliber and main monitor applications.

The 8361A features two newly-designed Acoustically Concealed Woofers - generating high SPL output with extremely low distortion - and brand new MDC coaxial midrange and tweeter drivers which provide smooth directivity, low distortion, high SPL and extended frequency response up to 40 kHz. Like all models in The Ones range, the 8361A's unique Minimum Diffraction Enclosure eliminates colouration and its entire front baffle acts as a Directivity Control Waveguide - producing a fantastically wide, uncoloured sweet spot. Efficient

proprietary Class D amplification is complemented by advanced DSP processing, including delay equalisation and twenty precision EQs for room compensation.

The newly upgraded 8351B shares much of the technology of its other Ones siblings and benefits from the many recent advances in electronic, mechanical and acoustical design that Genelec has continued to pioneer. Drawing inspiration from the electronic design of the 8341A and the driver technology of the 8361A, the 8351B revision has managed to improve on the exemplary performance of its predecessor by offering increased SPL, additional room compensation EQs, equalised delay and enhanced HF response.

The W371A Adaptive Woofer System is a truly unique concept, designed specifically to seamlessly complement 8341, 8351 and 8361



locate this free-standing system in optimal positions within the control room; even providing the option to switch between nearfield and main monitors without image-shifting.

Commenting on the launch, Genelec Managing Director **Siamäk Naghian** said, "No other family of studio monitors can offer this level of coherency, control, neutrality, and sheer ability to adapt to any acoustic environment. From

Genelec, The Ones series of Ultimate Point Source Monitors

monitors, and in conjunction with these models creates a series of full-range monitoring solutions with unrivalled neutrality and supreme levels of control over directivity and the effects of room acoustics. For the first time ever, studios can now experience all the benefits of a main monitor, but with the freedom to

the ultra-nearfield precision of the 8331A to a full-range system comprising the 8361A and W371A, our point source technology is now fully scalable, broadening its appeal still further and maintaining The Ones' position as the industry's benchmark for truthful reference monitoring."

## PRESONUS SHIPS VERSATILE PX-1 AND PM-2 RECORDING MICS

PreSonus is now shipping two new microphones suitable for a wide variety of recording applications. Whether purchased at the same time or separately, the new **PreSonus PX-1** large-diaphragm cardioid condenser mic and **PM-2 stereo** set of matched small-diaphragm cardioid condenser microphones give users the core of a high-quality microphone collection.

As per PreSonus, its PX-1 is an excellent solution for recording vocals, guitar, podcasts, and much more. A true large-diaphragm, side-address condenser microphone, the PX-1 features a 1-inch (25 mm), gold-sputtered capsule designed to provide exceptional clarity throughout its frequency response range. Rugged construction and top-quality

performance specifications make the PX-1 an excellent addition for any home recording or streaming studio.

A fine choice for stereo recordings of acoustic instruments, drum overheads, ensembles and more, the PreSonus PM-2 set comprises a sonically matched pair of small-diaphragm cardioid condenser microphones. Each PM-2 microphone is equipped with a ¾-inch (19 mm), gold-sputtered capsule housed in an ultra-light chassis, making it easier to perfectly position your microphones without fighting gravity. The PM-2 set comes with a stereo bar for XY mic placement, and the two microphones can be used together or individually, making them an excellent addition for any home or professional recording environment.





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## DYNAUDIO EXPANDS CORE STUDIO MONITORS WITH CORE 47 AND CORE SUB

Dynaudio has added two new models to the **Core reference series**.

**Core 47** is a compact three-way monitor with a 7in woofer, a dedicated 4in midrange driver and the new 28mm Esotar Pro tweeter.

**Core Sub** is a powered subwoofer with four 9in long-throw woofers and 2x 500W of power.

Reportedly, core is the most revealing reference monitor series in Dynaudio history: breathtaking accuracy for when every single detail must be heard in order to make wise mixing decisions. It introduces new technologies in all areas that focus entirely on reproducing the most accurate sound possible – everything producers need to hear.

“Core 47 fills the gap between the Core 7 and Core 59 models,” says Dynaudio Pro product manager **Rune Jacobsen**.

“Its footprint is comparable to Core 7, but it’s a three-way design with a dedicated midrange driver for the absolute highest degree of detail when reproducing sound in this critical frequency area – where, for instance, vocals are located.”

He further adds, “Core Sub is tailored to be the ideal low-frequency



partner to any Core-based set-up. With four long-throw woofers and 1000W of power it delivers powerful and reliable low-frequency reproduction regardless of whether it’s part of a master stack, or a surround sound or immersive speaker setup with height and overhead channels.”

Core 47 and Core Sub have digital inputs (AES3) and support up to 24-bit/192 kHz signals, and the internal DSP (digital signal processor) operates at the same high level when using the analogue inputs.

The series is also designed

for extremely flexible positioning. Depending on the studio environment, monitors might need to be placed sideways or upside down, which might mean less-than-perfect contact with the surface area. Core solves this issue with four indentations on each side and a set of special pads to fit them. Dynaudio has also designed a bracket for Core 47 for wall or ceiling installation. With the appropriate adapter it can also double as a desk-stand.

Core 47 and Core Sub features state-of-the-art Pascal class-D amplifiers chosen after a series of

intensive listening tests. Their high-frequency smoothness, unlimited power resources and stellar dynamics made the difference.

The two additions to the Core range couple extreme accuracy with astonishing consistency. When measured precisely, all Core speakers are tuned to match perfectly within a very narrow 0.2 dB tolerance.

### HIGH-PERFORMANCE TESTING

All Dynaudio monitors are developed, designed, tested and made in Skanderborg, Denmark – and key components, including drivers and tweeters, are made by hand in Skanderborg as well.

The Core series is the first Dynaudio Pro range to have been fully developed in the company’s advanced new R&D centre, Dynaudio Labs. Jupiter, its 13 x 13 x 13m measuring room, is a state-of-the-art facility, and is especially beneficial when developing active speakers. Measuring both on- and off-axis performance can now be done in minutes rather than days – letting engineers get on with the work of prototyping and listening rather than waiting for numbers to crunch.

## LAWO INTRODUCES MC<sup>2</sup>96 XTRA FADER VERSION

Lawo has introduced their new **Xtra Fader Version** of their mc<sup>2</sup>96 Grand Production Console – providing an increased fader count in the Central Control Section.

16 instead of eight faders in the Sweet Spot – a layout option that reportedly can also be retrofitted into existing consoles – provide direct access to the double

number of channels in the ideal listening position. Audio engineers enjoy an enhanced freedom for a more convenient and flexible workflow in fine-tuning their audio production settings. The mc<sup>2</sup>96 console’s Xtra Fader Version is dedicated to demanding studio and OB truck applications with a need for maximum number of faders on a

small footprint: The mc<sup>2</sup>96 Xtra Fader Version allows to apply a 112-fader frame that fits into a mere 2350 millimeters (92.52 inches) width for the installation in standard-sized OB vans (truck crosswise).

“By making the new mc<sup>2</sup>96 Xtra Fader Version available also as a retrofit, we’re giving access to this increased functionality to all our mc<sup>2</sup>96 customers,” says

Christian Struck, Senior Product Manager Audio Production. “Our IP-based “Grand Production Console” is widely praised for its comprehensive functionality, convenient and flexible workflow, and for the most transparent high-quality sound all over the world, and the new panel adds even more value.”

The Lawo flagship audio mixing console has been specifically designed to

provide optimal performance in video production environments through native support for all relevant IP standards – SMPTE 2110, AES67, RAVENNA and DANTE. The Lawo mc<sup>2</sup>96 console, available in frame sizes with 24 to 200 faders – and additional faders of the mc<sup>2</sup>96 Xtra Fader Version – is capable of 44.1 - 96 kHz operation and boasts a routing capacity of up to 8,192 x 8,192 cross points, and a processing power of up to 1024 DSP channels.

In addition to standard channel labeling via channel numbers, individual text labels and static pictures or icons, the mc<sup>2</sup>96 features LiveView video thumbnails for even greater intuitive channel identification. Touching a fader changes the LiveView thumbnail to full-screen mode, providing a more detailed view of that channel’s video source, such as a camera or a replay machine.





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## IZOTOPE OZONE 9 PROMISES BALANCE TO MUSIC WITH NEVER-BEFORE SEEN PROCESSING FOR LOW END

iZotope, Inc., has launched Ozone 9, brings balance to music with never-before seen processing for low end, new real-time instrument separation, and lightning-fast workflows powered by machine learning.

Reportedly, Ozone 9's Tonal Balance Control can now talk to more iZotope plug-ins in the session and plug-in performance is improved for faster work, smoother metering, and resizable windows, helping users get rid of any uncertainty on whether music is ready for release.

Using Ozone 9's new processing designed to enhance bass sounds, this feature brings clarity to a users' low end and gives a well-defined foundation for each track. Creators can also tame unruly or clashing kick drums and boomy bass guitars without changing overall impact and go in-depth with surgical controls that shape tone and timbre, bringing out the best in the low end - with minimal artifacts - using this industry-first bass shaping tool.

"In Ozone 9, we focused heavily on delivering experiences that no one has ever seen to the world of mixing and mastering, while enhancing the innovations that version 8 introduced two years ago," said iZotope Product Manager **Dan Gonzalez**. "With tools and workflows powered by source separation, spectral processing, inter-plugin communication and machine learning we aim to give our users confidence and inspiration at every stage of their mix and master with one suite of plug-in. We can't wait for everyone to try it out - it truly is the future of mastering."

Ozone 9's improved Tonal Balance Control allows tracks to be adjusted to targets based on thousands of professional masters, drawing on decades of mastering expertise. Now with faster performance and smooth metering, Tonal Balance Control also provides more ways to communicate with other iZotope plug-ins across a session. Users can call up any instance of Neutron, Nectar, Relay or Ozone, and make per-track adjustments to EQ and gain and accurately fine tune a mix in any



listening environment or genre, while easily addressing balance issues without opening multiple plug-ins.

Ozone 9's improved Master Assistant uses machine learning to create a custom preset in seconds. The new Vintage mode provides automatic adjustments for Vintage EQ, Vintage Limiter, and more, to allow users to quickly add the right combination of color and character. Master Assistant intelligently sets loudness to meet CD or streaming targets, preparing a solid master for distribution in seconds. Or, users can load a reference track to have

Master Assistant match the flavor and intensity of any audio.

Ozone 9 brings the tone and vibe of favorite artists to a track with the upgraded EQ Match. Match to any reference track with over 8000 separate bands to give the most precise snapshot possible. New region parameters now give more control over the end result by letting users choose what parts of the audio to match. They can also capture a reference from a track in a session, or a reference file loaded into Ozone 9 and save favorite results as presets for easy access.

## MACKIE PARTNERS WITH PRO TOOLS | FIRST

Mackie has announced a new partnership with Avid to offer Pro Tools | First plus the exclusive Musician Collection featuring a unique bundle of 23 Avid plug-ins, including the legendary 304C Compressor and 304E EQ bundle, with select Mackie products.

In addition, reportedly the popular Waveform OEM software and 16 plug-in DAW Essentials Collection is still included with select Mackie products. This complete software package is valued at over \$500 USD making Mackie products an incredible value to end users. This announcement goes alongside the all-new ProFXv3 Series Professional Effects Mixers with USB, which features upgraded recording capability, Onyx mic preamps,

onboard compressors, and 24 effects making the series a perfect match for the industry-standard software.

"Pro Tools has long been the industry standard when it comes to recording," said **Matt Redmon**, Mackie Director of Product Marketing,



"and we are excited to bring this powerful software to Mackie customers for the first time."

In addition to including Pro Tools | First with the new ProFXv3 mixers,

the software bundle will now be included with a massive list of other Mackie products including Onyx USB Interfaces, Big Knob Series Monitor Controllers | Interfaces, all studio monitor series, DL Series Digital Mixers, and more.

"Mackie hardware has long been



essential to all facets of music production, as evidenced by Mackie products playing a part in the personal studios of most Avid employees involved in

audio," remarks **Ed Gray**, Director, Partnering Programs for Avid. "We are excited to bring new Mackie hardware customers into the world of Pro Tools to see what we can accomplish together with this compelling offering."

Mackie will continue to include the popular multi-award-winning Waveform OEM bundle that includes their DAW Essentials Collection featuring 16 professional plug-ins with select products.

"Software is essential for modern musicians and content creators," says Redmon, "and with two complete software packages included in our products, Mackie users will get incredible value and choice right out of the box."

*Any live event is obviously redundant without the lighting and visual imagery. Lighting plays a crucial role in any show adding excitement, dynamism and emotion to a performance and it is the art and science of the Lighting Designer that adds zing to any concert, music festival or stage show. PALM Sound & Light was envisioned to celebrate excellence in creativity and innovation in the field of lighting products, design and application, as much as it celebrates excellence in live sound, and this years the awards honoured the infallible **NAVEEN DESHPANDE** with **Lighting Designer of the Year**. In this article, **PT** charts Naveen's journey in the Live Events space.*

9<sup>th</sup> edition  
**PALM SOUND & LIGHT AWARDS**

Naveen Deshpande  
**LIGHTING DESIGNER OF THE YEAR**

**N**aveen was born in Hubli and raised in Nasik and Pune. A Bachelor in Computer Science, he found himself drawn to music. Starting of his musical career as a drummer for the death metal band Black Hole Theory, he also worked as a radio jockey at the Planet M store in Pune as a teenager. Naveen practically, grew up alongside the very nascent indie rock scene in the country.

As this scene evolved, mutated and branched into alternative rock, fusion, electronic and other live music avenues, he used his passion for music and penchant for the business to stack up experience in managing bands, booking shows, dealing with promoters and venues, and eventually producing shows.

Thus was born, his company – Mixtape, whose main forte is artist management, bookings, touring and event management. With a history of working with both local and international clients for almost a decade, Mixtape has developed a reputation as India's premier agency in the independent music industry, with a worldwide reach.

Around a decade ago, Mixtape managed one of India's leading bands Pentagram and Naveen

would double up as tour manager for the band. When on these tours, he would watch designers like **Roosevelt D'souza** and **Abhishek Sanyal** create their lighting magic for the band, and this excited Naveen! He was inherently drawn to the beautiful world of lighting and

developed a passion for it.

**The Avolites Connection**

In 2011, when on a holiday in UK, Naveen found out that Avolites was conducting a workshop on the Pearl and Titan software. Since there wasn't any formal training available in

India back then, Naveen wrote to Avolites about his keen interest in learning the console. Avolites on their part supported the budding lighting designer and waived off his training fees. They also helped him get a certification for the Pearl and the Titan software and



**Naveen Deshpande receiving the award for Lighting Designer of the Year. In his instagram post, Naveen dedicated this award to Syam Gopinath, Francis Porai, Ganesh Pujare and Satvinder Singh for teaching and constantly inspiring him.**

thus began Naveen's journey as a lighting designer.

With a lifelong passion for music and a keen aptitude for programming lights for event and managing tours, Naveen blended both strengths for all the artists that Mixtape managed, like *Indus Creed*, *Shaa'ir + Func*, *Scribe*, *Bhayanak Maut* etc. He later got an opportunity to join two of Bollywood's most celebrated artists - **Pritam** and **Amit Trivedi**. He travelled with them for three years until he realized that constant tours were taking a toll on him, after which he decided to do only select shows.

### Festival Culture

With the advent of the music festival culture in India around 2012-13, Naveen decided to bring in more curated and eclectic lighting design experiences across festivals. Ever since he has been part of the *Magnetic Fields*



Naveen won the PALM Sound & Light award for his outstanding work in in 2018-2019 in festivals such as Disrupt, NH7 and Magnetic Fields.

**“It is important to recognise people who work in the backend of creating a magnificent event and PALM Sound and Light awards is rightly doing so by acknowledging this talent. These talented technicians make events look and sound extravagant and awards like these are great to boost their morals thus, raising industry standards.”**

**NAVEEN DESHPANDE, Mixtape**

*Festival* and gradually added multiple other festivals such as *NH7 Weekender*, *Sula Fest*, *Bira's April Fool's Fest*, *Backdoors Festival*, *Disrupt*, *BUDX Mumbai* and many more to his rich portfolio.

He has also lighted up the stage for some of the biggest international touring artists in India such as *Karnivool*, *Anderson Paak* and the *Free Nationals*, *Four TET*, *DJ EZ*, *Fatima Yamaha*

etc. A personal letter from Steve Vai, congratulating Naveen for the spectacular lighting rig he had designed and programmed for the three-time Grammy Award winner on two of his concerts in India, was testimonial enough for Naveen's skill, which he had honed through the years.

### Ground Control

Finding the right chemistry and inclusive atmosphere in live event production, Mixtape set up a Ground Control division, which handles lighting and A/V design for multiple music festivals, touring artists and corporate events. Naveen soon started including visuals and pyros along with lighting for many of his touring artists. One of his most successful live productions in the

recent past has been for hip-hop superstar Divine.

"I am also excited to consult and design many new venues coming up in India, this year I am looking forward to one of my favourite projects which is antiSOCIAL, coming up in Mumbai and I am excited to bring in a diverse selection of fixtures from Martin lighting at the venue," says Naveen.

Naveen being a trained lighting engineer is still progressing on the path to make this lighting and AV collective the go-to solution provider for any kind of light design requirement in the country.

"Remember it's not necessary that bigger the better, sometimes minimal is the key," is his tip to budding lighting designers in the country.

**Remember it's not necessary that bigger the better, sometimes minimal is the key.**

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# Modern Stage Service Projects delivers awe inspiring Light & Sound Show at Jyotisar Tirth

**Jyotisar**, situated about 12 kms away from Kurukshetra on Kurukshetra-Pehowa road in Haryana, is a part of a 48 km parikrama with temples. This venerated place is known as the land where Lord Krishna expounded the holy Gita to Arjuna at the out-set of the Mahabharata battle, which is now called **Gitopadesh Sthal**.

This tirtha attracts several devotees from all around the world, especially during solar and lunar eclipses, when pilgrims take the holy dip.

With a view to protect the ancient heritage and age-old tradition of the

place and to make it a developed center, the **Kurukshetra Development Board** decided to develop the area and include a new light and sound show for devotees and tourists. The multi-sensory show depicts part of the Bhagavad Gita, using a combination of film, light, sound and water to bring to life the basic tenets of the Gita.

The main objective of this light and music show, inaugurated by the Honorable Chief Minister of Haryana Shri. **Manohar Lal** on 20th August 2019, was to recreate episodes from the epic Mahabharata, to communicate the

message of Lord Krishna, and educate people about his philosophy of life.

The show including concept, production and infrastructure was donated by **M/s TRL Riceland Pvt. Limited** in the memory of its founder, **Narshid Das Thakrar**. Mr. Thakrar's wife, son, grandchildren and siblings from the UK and Africa attended the Inauguration to honor the memory of their father and grandparents.

According to reports in press, TRL Riceland Private Limited spent Rs 8 crore for this show under its CSR programme and will maintain the project for two

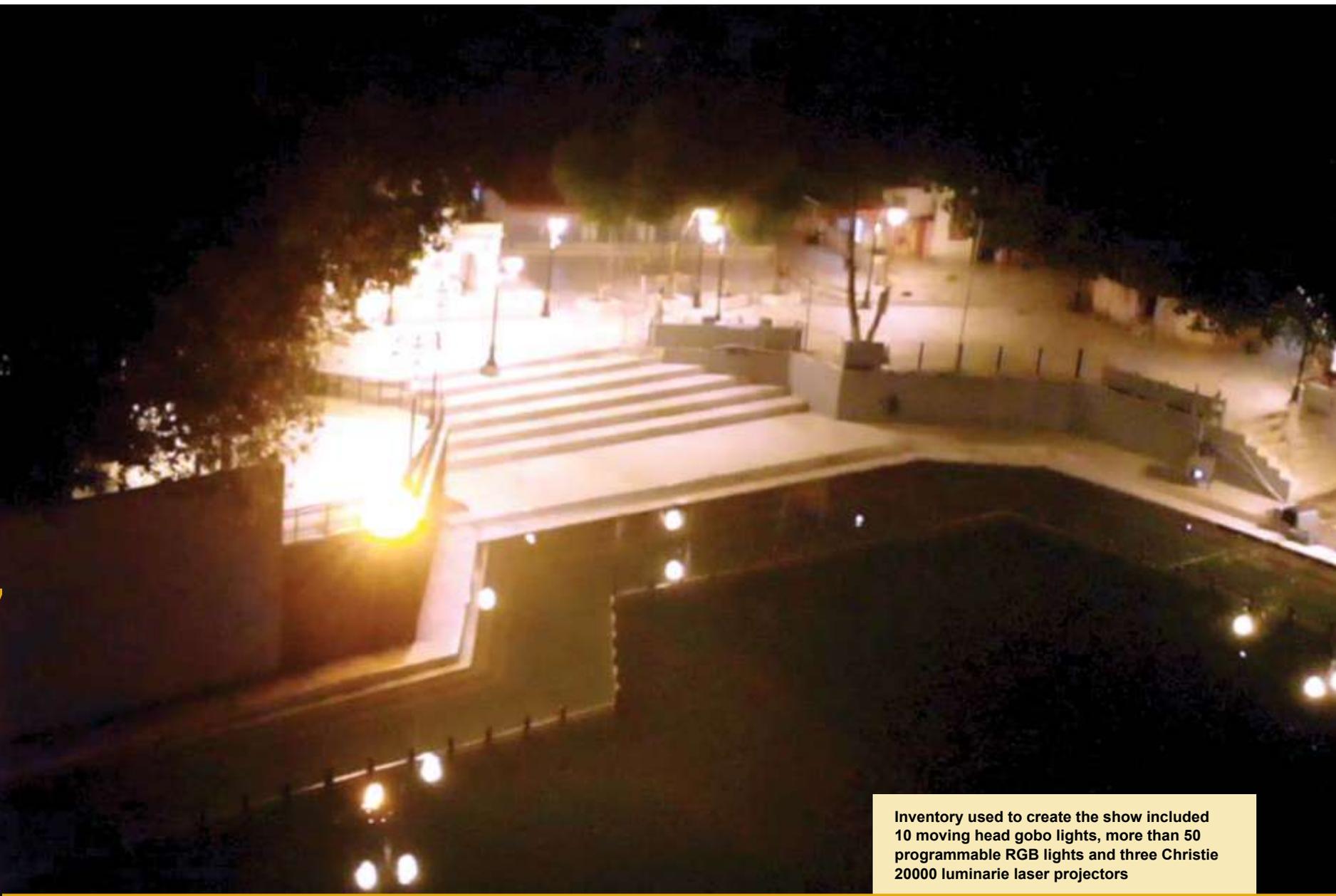
years, after which, it will be handed over to the Kurukshetra Development Board.

To make this vision a reality TRL Riceland Pvt. Limited approached **Modern Stage Service Project** (MSS World Projects).

The show screened at 7.30 pm daily can accommodate 250 visitors at one time.

## Concept, Design & Inventory

The entire show was designed and conceptualized using existing elements



Inventory used to create the show included 10 moving head gobo lights, more than 50 programmable RGB lights and three Christie 20000 luminarie laser projectors



at the site including, two large water screen fountains, other water fountains with very high water jet, trees and a huge overhead water tank, approx. 90 feet high. A 20 ft. high and 60 ft. wide wall has been converted into a water-screen and the huge banyan tree at the

venue play the narrator's role.

Inventory used to create the show included 10 moving head gobo lights, more than 50 programmable RGB lights and three Christie 20000 luminarie laser projectors. Considering that the water screen is refractive, two of the projec-

tors have been placed behind the water screen, and the third projector is placed in front of the wall. Fountains at the site were utilised for creating bow and arrow images and the latest JBL surround sound system provides sound reinforcement for the show.

Before initiating the installation, Indian film writer, **Atul Tiwari**, who was the Creative Director for this project, along with his team and the Modern Stage Service Project's team, visited the place to fine-tune the requirement, concept, and design in detail.



Arjuna and Shri Krishna entering the battlegrounds on an almost invisible large 60 ft water screen



Considering that the water screen is refractive, two of the projectors have been placed behind the water screen and the third projector is placed in front of the wall.



A 20 ft. high and 60 ft. wide wall has been converted into a waterscreen

“There can’t be a better subject and theme,” says, **A.K Gupta**, the Advisor of the project. “The show at Jyotisar is a unique show utilizing all the elements around i.e. lake, ancient vat vriksh, temples, surrounding wall, trees, and a high tank on the back of the temple. Hence, every detail of the concept and design is well documented, narrated, and video-graphed to make it a multimedia show

with water fountains, focused on Bhagwat Geeta and Mahabharata related to Jyotisar’s iconic landmarks.”

Director of MSS Projects, **Pratik Wadhwa**, further adds, “To highlight everything we have installed water screen’s high-pressure jet, thematic fountain jets, moving heads and gobo lights, LED PAR Lights, high-tech surround sound equipment and above all, laser HD projectors

have been installed to cover all these elements to make it a spectacular show. The show was conceived with all these elements because they give a feel of multiple dimensions to the spectators. The theme of the show mainly revolves around the interaction between Lord Krishna and Arjuna. To make it more attractive, two water screens have been used for the two characters. Every

feature gets an entry at appropriate timings, which keeps the spectators fully occupied and glued throughout during the 36-minute duration of the show. The inventory selected is waterproof, durable and safe for installation in an open environment as it can withstand adverse weather conditions.”

## Technical Challenges

As the Bhagwad Geeta was the central theme, the main challenge for MSS Projects was to make the entire act with its shlokas appealing for the present generation. “The challenge was met by using each and every element around the site, for which we got all support from the Kurukshetra Development Board and Govt of Haryana,” said **Davinder Wadhwa**, Director of MSS World Projects.

Technically the main challenge for MSS was to lay out a huge quantity of cables in the ground and in water. “Integration of equipment was a difficult task, but it was overcome with Modern Stage Service Projects well-versed team of engineers and skilled workers who worked day and night under the guidance of Pratik Wadhwa,” said AK Gupta.

**R.S. Seshadri**, Director, TRL Riceland Pvt Ltd., says, “We are pleased with the show (Hindi version 1) which is a collaboration between TRL, Modern Stage Service Projects, Mr. Atul Tiwari and **Knownsense Studios**. Now we are looking forward to the English version 1 and the Hindi Version 2. But we are sure that it will be executed with the same competence as the Hindi version 1. We were particularly pleased with MSS’s transparency and positive approach in completing the Hindi version 1 project.”

“The philosophy of the Gita is timeless, and we hope it motivates people to learn more about the Bhagwad Gita and transform themselves,” he adds.

## Visual Content

“The Son-Et-Lumiere multimedia show on the Bhagwat Gita at the very spot the holy sermon was delivered, has to be the most revered and special project for us at Knownsense Studios,” said **Himanshu Ghosh**, Partner, Knownon-sense Studios

Having been entrusted the job of creating the visual content for the show, the task for Knownsense Studios was to understand not only the subject and the audience but also the apt use of all the different technologies to be used to create this one of a kind show. “The first assignment for us was to create a key, highlight effect based visual map of best use of effects from each medium

*(Continued on page 66)*

# Turbosound

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Arrayable 2 Way 12" Constant Curvature Loudspeaker



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## THE PIANO MAN JAZZ CLUB SHINES WITH HARMAN PROFESSIONAL SOLUTIONS

*AM Integrated and Crescendo AV select JBL speakers, AKG mics, Soundcraft mixers and Martin lighting to create an intimate live music environment*

AM Integrated and Crescendo AV recently outfitted **The Piano Man Jazz Club** with a complete HARMAN Professional Solutions sound reinforcement system to ensure a one-of-a-kind live

international brass bands.

In order to ensure a premium live entertainment experience for its guests, The Piano Man Jazz Club Gurugram hired AM Integrated and Crescendo AV to design and

a comprehensive live entertainment system without compromising any of our ideals."

The Piano Man Jazz Club Gurugram is a wide, oval-shaped venue - a design that was chosen specifically to

by AC16/18 loudspeakers as side fills. JBL EON615 powered speakers and EON618/230 powered subs deliver exceptional onstage monitoring for the performing musicians. A Soundcraft Si Impact 32 digital mixing console ensures top-notch mixes for audience and performers alike, while AKG microphones are used onstage for their premium clarity and balanced tonal qualities. An array of Martin lighting fixtures provides dynamic effects in the club, turning each performance into a unique and vibrant experience.

"Our venue is a space where the artist's performance is always prioritized over the customer," concluded Gupta. "Every night, there's a silent song - the band picks one song, and we shut down the bars, stop all service and let a moment of pure music without distraction pull people back into the magic happening on stage.



**The Piano Man Jazz Club installed two JBL AM7212/00 loudspeakers, four ASB6115 subwoofers, augmented by AC16/18 loudspeakers as side fills along with JBL EON615 powered speakers and EON618/230 powered subs.**



**Martin lighting fixtures provides dynamic effects to each performance**

entertainment experience.

The Piano Man Jazz Club is a full-service restaurant, bar and music venue founded in 2015 by classically-trained pianist and entrepreneur **Arjun Sagar Gupta**. The first location in Delhi was so successful, Gupta decided to open a second location in the bustling city of Gurugram. In addition to being one of the few venues in India that showcases live jazz music, The Piano Man Jazz Club also features diverse acts from young singer-songwriters to

integrate end-to-end HARMAN Professional audio and lighting systems, including solutions by JBL, AKG, Soundcraft and Martin Professional.

"We wanted premium audio solutions that would provide unique experiences for our artists and guests," said Gupta. "We chose HARMAN for its wide range of loudspeakers, superior quality of end-to-end solutions and their extensive service support network. Getting a rich and warm sound can be a challenge, but HARMAN delivered

achieve a close and intimate seating arrangement around the stage. This design posed a unique set of acoustic challenges when it came to implementing a front-of-house speaker system.

The integration team overcame this challenge by installing a main array of two JBL AM7212/00 loudspeakers and four ASB6115 subwoofers, augmented

The HARMAN system allows to optimize the artist's experience onstage without compromising the audience's experience. We hope to expand small chains of jazz clubs all over the country to provide a platform for artists to showcase their talent, and for customers to listen the best jazz in an extraordinary environment."



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## BOSE PROFESSIONAL NOW SHIPPING CONTROLSPACE PROCESSORS

Bose Professional is now shipping its new ControlSpace Commercial Sound Processors – the **CSP-1248** and **CSP-428** – and three new digital wall controllers, part of a comprehensive Bose platform that includes loudspeakers, controls, and software to help installers deliver premium sound systems efficiently.

The CSP-1248 and CSP-428 benefit from an onboard CSP configuration utility and intuitive browser-based UI that provide a quick-setup workflow. Common tasks are presented in a logical manner, so installers can configure the system faster, reducing installation time while increasing setup accuracy.

Bose CSPs offer just the right mix of inputs and outputs, including balanced analog I/O and mono-summed RCA inputs, as well as control inputs, control outputs, and a mute contact. A Bose AmpLink output allows for a simplified digital audio connection to compatible power amplifiers, reducing terminations and related points of failure. In addition to

enabling configuration via Mac or PC, the rear-panel Ethernet port connects to optional ControlCenter digital zone controllers and the ControlSpace Remote app.

Once installed, proprietary Bose algorithms offer predictable performance, making Bose CSPs the convenient solution end users are looking for. Opti-source level management monitors the input level of up to four sources, maintaining a consistent volume level between them. DynamicEQ processing expands performance and response at any listening level. Additionally, Opti-voice paging provides a smooth transition between music and page signals. When combined with the Bose AVM-1 sense microphone, AutoVolume compensation continuously adapts zone output level based on the ambient noise of an active space.

Complementing the new CSP processors are three new user-friendly digital wall controllers: the CC-1D, CC-2D and CC-3D. Each model comes in black or white and is available in regional variants. They feature attractive styling with a single rotary



**Bose ControlSpace Commercial Sound Processors – the CSP-1248 and CSP-428**

encoder and circular LED ring. The CC-2D and CC-3D models have a push-button rotary encoder to allow for A/B or A/B/C/D source selection with LED source indicators on the panel. In addition to the new digital wall controllers, the new CSP and

ESP processors are supported by ControlSpace Remote, allowing customized control panels to be built and deployed to end users for wireless control of their systems from mobile phones, tablets or laptops.

## KANISHKA TONGYA JOINS REAL IMAGE AS BUSINESS HEAD - MEDIA SOLUTION

Real Image, a division of **Qube Cinema Technologies Pvt. Ltd.** has announced that **Kanishka Tongya** has been appointed as Business Head - Media Solutions for Real Image.

Kanishka will be spearheading the strategic growth for the Media Technology Solutions business, with an aim to expand its footprint beyond broadcast and into other related opportunities, including post-production, OTT, etc., both in India and



**Kanishka Tongya, Business Head - Media Solutions, Real Image**

other markets.

Kanishka joins Real Image after a six-year stint in Interra, where he was the face of the company in the Asia Pacific, Middle East, and Africa regions, leading all customer-facing teams like Sales, Pre-Sales, Customer Support, Marketing, and MarCom. He has extensive experience in the Banking, Financial Services, Insurance (BSFI), Manufacturing, Transport and Media & Broadcast industries.

## AUDAC EXPANDS ATEO LOUDSPEAKER RANGE

AUDAC has introduced **MK2** versions of the popular **ATEO4** and **ATEO6** wall mount installation loudspeakers. Externally the product retains the same design that made it so popular with designers and architects but internal improvements including an upgraded crossover deliver an ultra-flat frequency response for exceptional fidelity.

The ATEO range has also been expanded with the addition of 16 Ohm versions of the ATEO4 and ATEO6. These "D" versions of the ATEO design wall speakers offer an even more cost-effective solution for small installations where a 100V system is undesirable or not required.

The 16 Ohm speakers offer a simple solution for small retail and residential applications, allowing up to 4 speakers to be connected in



parallel to a single amplifier channel. By removing the 100V transformer from the "D" versions, you get the same build quality and listening experience for which AUDAC is known at an even lower price.

The ultra-compact ATEO2 completes the range with a loudspeaker that is small enough to be unobtrusively hidden in almost any environment. The ATEO2 is available in both standard 8 Ohm version and 16 Ohm "D" version.

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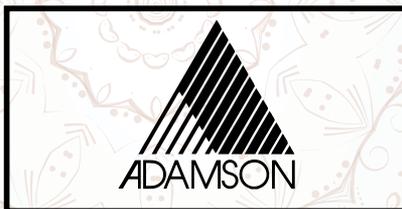
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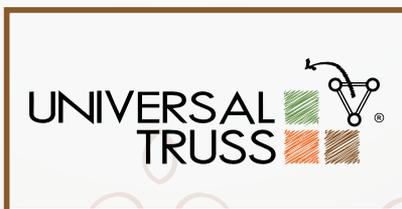
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## SREE KALIDAS M-PLEX CHOOSES CHRISTIE REALLASER RGB LASER CINEMA PROJECTORS AND VIVE AUDIO

*First multiplex in Kerala to feature the laser projectors and Vive Audio*

Sree Kalidas M-Plex has become the first cinema complex in the southern Indian state of Kerala

undertaken by Christie's valued Indian partner, **TSR PROVA (TSR)**, which is actively pushing for the adoption of

for audiences. The remaining five halls are fitted with the robust and reliable Christie **CP2215**

design. Combined with the amazing acoustics of Christie Vive Audio, our technologically advanced multiplex will offer a spectacular cinematic experience for audiences in southern India."

**Tan Sri Dato Sri Dr. Ramaswamy**, Managing Director, TSR, commented, "The decision by Sree Kalidas M-Plex to invest in Christie's RGB pure laser cinema projectors and Vive Audio is a clear testimony of their high performance, reliability and ease of maintenance. We're proud to be involved in this major project that demonstrates our continued commitment to the cinema sector, exemplary customer service and extensive technical knowledge to deliver best-in-class movie experiences to Indian audiences."

**Dr. Don Shaw**, Senior Director, Asia Sales, Cinema, Christie, added, "We're very pleased that Sree Kalidas M-Plex has become the first multiplex in Kerala that showcases the many benefits offered by our RGB pure laser systems developed for mainstream cinema exhibition and the immersive cinema sound of Vive Audio. With the strong aftersales support provided by TSR, Sree Kalidas M-Plex is set to become the new landmark of Thiruvananthapuram, bringing unmatched visuals and surround audio that enthrall all audiences."

Christie's RealLaser family of cinema projectors offers all the advantages of RGB pure laser in a compact all-in-one form. This eliminates the need for sub-ambient external cooling, which further reduces operational cost. Christie RealLaser consistently delivers excellent image quality and brightness above DCI standards throughout the projector's natural life.



**Multiplex's two premium auditoriums are powered by Christie's RGB pure laser systems comprising the CP4330-RGB and CP2320-RGB and remaining five halls are fitted with the robust and reliable Christie CP2215 cinema projectors.**

cinema projectors. In addition, all seven auditoriums are equipped with Christie Vive Audio, which combines planar ribbon drivers, line array speaker design, and Class D amplification to provide highly immersive cinema sound.

"We're delighted to become the first cinema complex in Kerala to offer leading edge RGB pure laser projection and audio technologies to discerning movie-goers who want the highest visual and audio quality," said **P. Balakrishnan Nair**, operations director, Sree Kalidas M-Plex. "Christie cinema projectors, particularly its family of RGB cinema projectors based on the RealLaser illumination platform, offer the best visuals and a unique, compact

to deploy its next-generation cinema projectors featuring Christie RealLaser illumination and Vive Audio.

Located in the capital city of Thiruvananthapuram, the newly completed multiplex has seven well-appointed auditoriums to deliver the most exciting and lifelike cinematic experience to movie-goers. The installations are

Christie's latest cinema technology across the burgeoning Indian exhibition market.

The multiplex's two premium auditoriums are powered by Christie's RGB pure laser systems comprising the **CP4330-RGB** and **CP2320-RGB**. These state-of-the-art systems provide astounding visuals in 4K and 2K resolution respectively, and offer greatly improved color and contrast



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MIPRO's MI-909, featuring the industry's smallest bodypack receiver, operates across 64MHz of bandwidth with multiple presets allowing 16 channel operations. With innovative digital technology offering a frequency response from 20Hz to 15kHz, 112dB of dynamic range, onboard DSP, and digital diversity reception, MIPRO's MI-909 system boasts unmatched features, digital audio clarity and functions that easily surpass the competition.



## OHM SOLUTIONS IN BALURGHAT NATYA CHARCHA KENDRA

Balurghat Natya Charcha Kendra is a dedicated studio that is pushing the boundaries in talent development. Conceptualized along with the National School of Drama, New Delhi, this Natya Academy has an open air Studio, a Blackbox Studio, hostel dormitories for accommodation, VIP Rooms, a round-table conference hall, a library and a landscaped garden

was designed using OHM's TRS 212 Cabinets. Our newly launched KX-3 wide dispersion cabinets complement the system acting as lip fills. They were accompanied by the mighty TRS subwoofers, while the TRS monitors took care of the sage actors monitoring requirements.

The Black Box was a more challenging prospect, as per OHM's team. The brief given to them

was a stereo imaging solution, where the audience is always surrounded by the system, and the stereo FOH can be chosen as per the placement of the stage. Further they selected the correct microphones, and strategically placed subs with preconfigured delay settings for multiple top options.

### Consultants Comments

"The processes, design philosophies, and professionalism of the VMT

performers. We knew we had to pick OHM for such a prestigious job. The team at OHM makes the integration pretty simple for us. We are guided throughout the procedure with diagrams, schematics, and installation assistance. We are in awe of the output of the OHM systems and look forward to working with them in the future for more innovative



**Balurghat Natya Charcha Kendra was designed using OHM's TRS 212 Cabinets. Our newly launched KX-3 wide dispersion cabinets complement the system acting as lip fills**



among other things.

Recently, OHM Solution brings sonic fidelity to this mecca of performing arts.

### Multi-purpose Solutions

**Debesh Chattopadhyay**, Project Consultant, says, "The systems need to be reliable & easy to use, whilst being loud & clear." The Amphitheatre was the first studio, which

mentioned ad-hoc stage placement anywhere across the room. This added the challenge of feedback as the stage/actors could possibly be right in front of a speaker. Hoards of options were tried such as the possibility of a mobile system, a central hang of cluster, motorized speaker brackets and more. The approved system design however,

Enterprise Team was commendable. They were willing to cross their boundaries, to find better solutions for the venue. The end result is a successful installation with a happy client. The tonality of OHM speakers truly speaks to its British lineage, and we look forward to working with this brand in the future" says, Debesh Chattopadhyay.

"The Balurghat Natya Charcha Kendra is a unique and innovative project that comes by once in a longtime. It's a marvel of theatre

projects" says **Gobindo Basu**, Proprietor, Art-E-Mide.

"Design is the most critical element of the system. Half the battle is won or lost at this stage. It was a pleasure working with like-minded professionals and the project is the result of the team's combined skill & brilliance. A special mention to the government of West Bengal for the opening of such facilities for the promotion of talent" says **Sushil John**, Director Sales-APAC.

## PENN LAUNCHES SLIMLINE PDU RANGE

Penn Elcom has released the **PDU16-10DJ PDU** (power distribution unit) range of 1U rack mounting units which combine all the power and practicality of 10 switchable output sockets - available with different socket outlets - and a range of power ratings between 10A and 16A.

The full catalogue of Penn PDU devices now includes these four new slimline variants plus four other 2U devices, all of which are designed to

flexibly assist full connectivity in a wide array of scenarios.

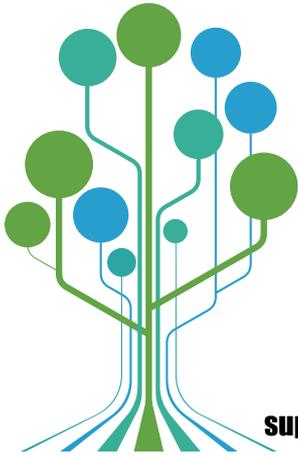
The PDU16-10DJ range is suitable for numerous installation and integration applications - from live music venues, theatres and studios to clubs, restaurants and bars, plus custom install applications like home automation, says the company.

Each of the 10 switchable channels is protected by a thermal current overload trip switch, and each numbered channel has a dedicated

rocker switch with a neon indicator light for quick and easy identification, so users can spot immediately whether if a load is present - or not - in both bright and dark light conditions.



# AUDIOCENTER



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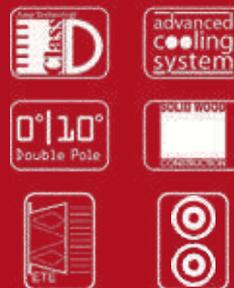
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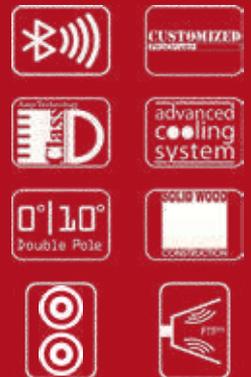
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## BOSE PROFESSIONAL CONVENES A STELLAR AURAL EXPERIENCE AT THE ICONIC MINTO HALL'S NEW CONVENTION CENTRE IN BHOPAL

Restoring the **Minto Hall** building with the latest in ultra-modern offerings, while preserving its heritage value and original grandeur was the primary objective" said **Hari Ranjan Rao**, principal secretary of MP Tourism department and managing director of the State Tourism

audio architecture for the entire space using a plethora of products from global pro audio leaders Bose Professional proved to be the answer that the management was looking for.

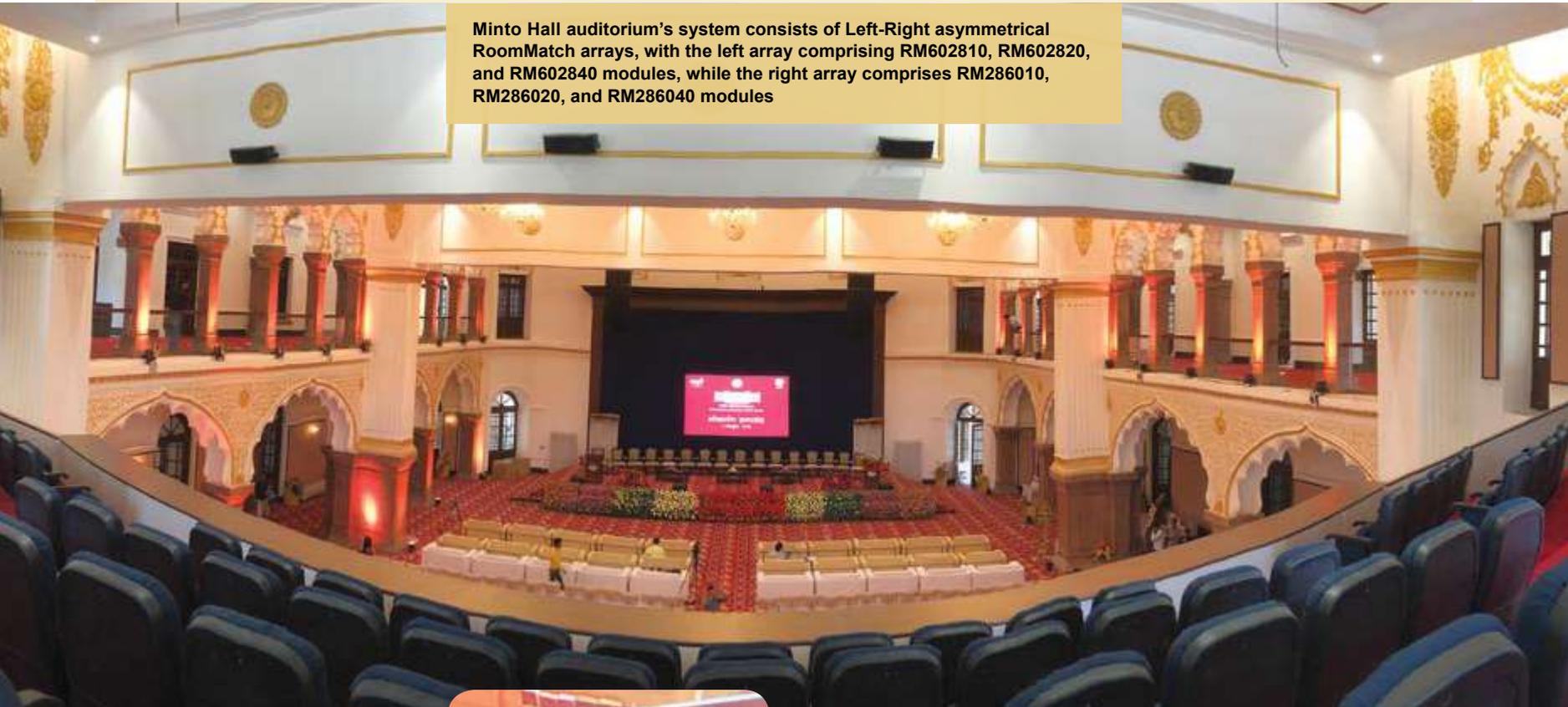
A carefully selected amalgam of high-performance products from Bose Professional's vastly impressive

enjoy the vibrant beauty of the city.

"Partnering with Bose was a decision that was motivated by the brand's long-standing reputation for delivering outstanding pro audio systems and services not just in India, but across the world. We found only Bose to have the kind of expertise in products, technologies,

The technical team from Bose Professional worked closely with the venue's management and principal architect **Puneet Sohal** of Urban Systems to understand various nuances of the building's architecture and aesthetics, following which an exhaustive analysis that involved

Minto Hall auditorium's system consists of Left-Right asymmetrical RoomMatch arrays, with the left array comprising RM602810, RM602820, and RM602840 modules, while the right array comprises RM286010, RM286020, and RM286040 modules



Board, as he emphasized the state government's vision to resurrect the statures building back to its former glory and eminence.

From the architectural standpoint, Minto Hall exudes a synthesis of Nawabi era and Imperial style, and post-independence, the building was used as the mainstay of the MP state assembly up until 1996. Following the recent **Rs. 64 crore** makeover, however, the magnanimous structure now stands tall as a state-of-the-art convention centre complete with luxuries that one would expect from a world-class establishment. "The idea was to have an iconic and world-class space that would promote meetings, incentives, conferences and exhibitions (MICE) tourism in MP" explains Rao. A bespoke and leading-edge



**Vibhor Khanna – Country Manager SAARC, Bose Professional**

FreeSpace and ControlSpace series of products features in each of the key congregation areas at Minto Hall which includes the main hall, two meeting rooms, a committee room, a boardroom, and a luxurious rooftop dining space called '1909 - The Crown of Bhopal' where one can

and design methodology that would meet and exceed our expectations – not just in terms of the sound performance, but also in terms of aesthetic appeal and maintaining the structural and visual integrity of the building" explains **Aparjit Dhamija** of Fortune Telecom, the project's Official Integrator.

The stellar highlight of the premise is undoubtedly the main hall, which now stands as a multi-purpose space to host occasions like large-scale get-togethers, banquets, felicitations, etc. Sporting a flexible-seating capacity of over 500 people along with a plush balcony section with a fixed 120 seating hilt, the dexterous functional nature of the main hall warranted the need for an agile sound system that could proficiently reinforce the wide range of MICE activities that the venue management envisaged.

comprehensive acoustic modeling of the main hall was conducted.

**Puneet Sohal** shares, "We had clear guidelines to work by, of which the most critical aspect was ensuring that the structural integrity and architectural beauty of the building be maintained. This automatically posed several restrictions in terms of speaker placements; which was compounded by the fact that the hall space is inherently reverberant owing to its dimensions and structural composition. The integration team, however, had a befitting answer to all the challenges. Their team of experts along with Bose Professional's fantastic line of products eventually delivered a superlative sound system that provides great quality sound performance, all while sticking to



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the brief provided by the venue management.”

Following a detailed physical mapping of the hall space, the design and integration team used Bose' Modeler design software to identify key reverberation and peculiar reflection patterns, and subsequently narrowed down on the precise combination of RoomMatch loudspeakers, PowerMatch amplifiers and ControlSpace processors that would be apt for the space in terms of delivering a superlative soundscape coverage that would encompass every seat. Modeler also helped the team in determining the precise height of the FOH array system such that it canceled any untoward sound reflections while ensuring that the audience seated in the balcony section enjoyed a clear line of sight.

“The integration team have done a fabulous job with the sound system throughout the entire property; the main hall in particular, where the sound experience is absolutely fabulous. The convention space sounds so beautiful – the sound experience is truly immersive. Whether you're seated at the balcony section or down at the main congregation space, the quality of sound is spectacular, and anybody who's ever been a part of any function at the main hall will testify to this. The main hall will absolutely love the sound. Our audiences love the atmosphere here, and it is so heartening to witness how deeply engaging the sound system actually is. Kudos to the entire audio team, and great commendation to Bose Professional for offering us such a wonderful solution”, exclaims **Jitendra Bhardwaj**, executive engineer at the Madhya Pradesh State Tourism Development Corporation (MPSTDC).

The auditorium's system consists of Left-Right asymmetrical RoomMatch arrays, with the left array comprising RM602810, RM602820, and RM602840 modules, while the right array comprises RM286010, RM286020, and RM286040 modules. The specifically tailored dispersion angles and highly steerable nature of these modules allowed

engineers direct the sound in a manner that almost negated unwanted reflections from the side walls while providing maximum impact of high-quality sound directly at the main audience area including those seated at the balcony section. Additionally, the RoomMatch arrays' revolutionary Delta-Q progressive directivity technology proved to be the cornerstone in achieving uniform SPL equalization and pristine tonal balance. Multiple units of the RMS 215 subwoofers assuring top quality low-frequency fidelity, have been suspended as part of the arrays; with the modules and subwoofers being aligned and tuned to precise perfection to form a well-balanced and harmonious sound system that assures a truly premium aural experience. Multiple units of the Bose RoomMatch Utility multi-utility loudspeakers, which use the same compression drivers as the main array speakers, have also been integrated within the space to further enhance the listening experience, with the RMU108 and RMU105 speakers deployed as stage monitors and stage front-fills respectively. The balcony section too enjoys superlative sound, with multiple numbers of the RMU206 multi-utility loudspeakers deployed at strategic locations ensuring pristine audio experience at every seat. The loudspeaker system at the main hall is driven by highly configurable PowerMatch amplifiers PM8500 multi-channel amplifiers providing clean and efficient power; while processing and overall management take place through the modular ControlSpace ESP-880 Engineered Sound Processor.

In addition to the main convention hall, the high-quality performance value of Bose Professional products is experienced across other areas of the premise as well, with a range of install specific products from the acclaimed FreeSpace and ControlSpace series deployed throughout the three-floor expanse of the premise. Sections like the lobbies and walk-throughs sporting multiple units of the DS16F in-ceiling speakers which are almost inconspicuous but provide high power output with pristine quality sound. The plush rooftop restaurant, 1909 – The Crown of Bhopal, also features the compact yet extremely powerful FS3 surface-



mount satellite speaker system complete with subwoofers for that extra bit of punch when party mode kicks in. The loudspeaker system across all common areas including the restaurant is controlled through units of the ever-efficient ESP-880 engineered sound processors and powered through the ever-dependable PowerMatch PM8250 amplifiers.

**Vibhor Khanna**, Country Manager, Bose Professional India, professes his elation saying, “Minto Hall is a symbol of architectural beauty and rich heritage, and for us at Bose Professional to be chosen as their preferred sound partner is a matter

of great pride. The cumulate of our technologically superior products and Fortune Telecom's team of dedicated seasoned professionals has enabled us to live up to the faith that the management entrusted in Bose to deliver a truly world-class sound experience for the new convention space. And the eventual sound experience there is something that everyone can be proud of. The Minto Hall convention centre is a shining example of a truly exceptional congregational space, and it is only befitting that the hall sounds every bit as spectacular as it looks!”

With an aim to fill up a huge vacuum in the industry for knowledge and audio education in the Live sound realm, Event-Tech Academy, an initiative by Sound.com organized a full-day summit, focused on preparing next generation pro audio professionals for a career in Monitor Mixing. That the Summit attracted 190 paid delegates says a lot about the content, speakers and the concept of the summit. **Smita Rai**, caught up with **Warren Dsouza**, the man behind the success of the Summit to learn how he made it work.



# MONITOR MIXING SUMMIT 2019

**EventTech Academy Summit attracts 190 sound engineers and Event technical professionals**

## The Art of Monitor Mixing

Professional audio and stage sound has flourished to encompass many new career paths, far beyond just mixing FOH for Bollywood hits. The expertise of a Monitor Engineer is a critical component for live performers and artistes to aurally 'visualize' their own sound / voice, but unfortunately very often is overshadowed by the promise and glamour of a career in FOH engineering, coupled with a lack of knowledge in the field of monitor mixing.

Realizing the growing importance of educating the pro audio industry about the intricacies of monitor mixing and his escalating desire to give back something of value to this industry, which he has been an integral part of since decades, **Warren Dsouza** conceptualized the

EventTech Academy Monitor Mixing Summit in August this year.

"In the last few years, I got a lot of requests from artist managers asking me for monitor engineers. Then came a point in time when these calls started becoming desperate. I realized then that there is a lacuna. There are so many engineers in India, but still there was a shortage of recognizable monitor mix engineers and even if there were some, they were not prepared enough. I realized that this area wasn't covered much or people did not have intrinsic knowledge about it and that's how I zeroed in on the subject."

## The 'Expert' line-up

Speakers at the Summit were industry experts, elected or chosen to share their hands on experience

and unique perspectives. The elite list of speakers included **Fali Damania, Ashish Saksena, Bruce Rodericks, James Baker, Mark Thomas, Raghu Ramankutty** and **Vanshaj Sharma**.

Commenting on the choice of speakers, Warren says, "I never had a concrete plan as such. In one of our journeys for a gig we were doing together, I told Fali about this idea of having a full day monitor mixing summit, which was just about germinating in my mind and he loved the idea and encouraged it. He was the first expert to come on board as a speaker."

"At the PALM 2019 Show, I subsequently met Ashish Saksena and James Baker. I told them about this Summit that I had envisioned and both of them were more than willing to be a part of it. The date of the Summit was in fact finalised

based on James availability in India and then everything just evolved beautifully and organically. I knew subconsciously, I wanted Raghu and Mark on board and Fali suggested getting Bruce Rodericks to join in. Bruce too overwhelmingly came forward to be part of the initiative, and that's how we got all our speakers in place," he continues.

## The Curriculum

During the course of the full day summit, each speaker provided insightful perspectives on monitor mixing providing realistic direction to 190 paid delegates who had enthusiastically filled up the Dublin Square at Phoenix Market City, Kurla, and Mumbai.

The Summit explored specific subjects, which included **The Architecture & Design of a Great**



James Baker, elaborates on Foldback around the Globe

**Monitor Sound** by Fali; **Monitor Mixing Strategies and Challenges of Mixing Monitors for top of the line Bollywood artistes** by Ashish, **Workflow of Prepping & Patching Monitors, Festival Monitor Mixing Dossier** by Bruce, **Foldback around the Globe** by James, **Sharing & Splitting Monitor Duties & Mixing Monitors for AR Rahman** by Mark and Raghu and **3D In-Ear Mixing and Monitoring** by Vanshaj.

“There was no worry about the curriculum as we chose speakers keeping in mind what areas we wanted to cover at the Summit. Fali

started the monitor mixing scene in India; he was the first in India to be hired as a monitor engineer and we wanted him to cover an overall perspective. We had Fali start the show to give people a generic view of monitor mixing, so that the other speakers could go straight into applications and not talk about basics. We chose Ashish because he has mixed many Bollywood acts and sixty percent of the audience wants to know about mixing applications for these acts. We chose Bruce because he has done a lot of Festival Monitor mixing and he is good at

that subject and we chose James Baker because he could give a global perspective of how shows were done abroad. In this, way we covered a little of everything like a big ticket Indian act,” says Warren.

The full-day summit concluded with two panel discussions. The first panel discussion on ‘The Art & Science Of Monitor Mixing’ moderated by Fali Damania included speakers Sameer Kriplani, Kuber Sharma, Mark Thomas, Bruce Rodricks, Ashish Saksena and James Baker. And panelists on the second panel discussion, again moderated by

Fali Damania, included Neeti Mohan, Divya Kumar, Alaap Gosher, Daryl Sheldon, Vinay Agarwal and Santana Davis.

Explaining the concept behind both the panel discussions, Dsouza says, “In the first panel discussion, we had engineers talking about what they were doing and how they were doing things differently. The whole idea was to give the audiences a holistic view of how these guys have made careers in monitor mixing, which means that you too can be on the stage, and you too can be that engineer two or three years from today. To emphasize the importance of a monitor engineer and sound production quality for artistes on stage and discuss day to day challenges of concert monitoring, logistics and production, the second panel discussion included an artist manager, one male artist and one female artist, one sound rental company owner, one engineer and the moderator who was again an engineer.”

“Overall, the idea was to have a mix of everything because it was a summit, not a workshop or a master class,” he adds.

## The Execution

The Monitor Mix Summit attracted 190 paid delegate registrations, making it a huge success. At this point, for EvenTech Academy it had become crucial that everything panned out flawlessly. “The pressure on us now was to exceed expectations as not only did we have veterans and aspiring newbies, we also had guys flying down from various parts of India and also from Europe and the Middle East,” says Warren. “The good thing is that we announced full house more than a week before the event and after that, we had 10 days to complete everybody’s registration & accreditation process. People were very impressed with how flawless everything was, as they did not have to change their batteries, they never lost reception, they were impressed with how simple the registration process was and how well our team managed the photo ID’s. The backend team did a good job due to which we replied to everybody’s mail within 24 hours. That is how everything fell into the right place at the right time and what really worked for us besides our content and speakers was our digital marketing strategy,” he says.

The Event was supported by



Mark Thomas talks about Sharing & Splitting Monitor Duties & Mixing Monitors for AR Rahman



**Fali Damania elaborating on The Architecture & Design of a Great Monitor Sound**

*PALM technology* magazine, official media partners for the event. Translation partners - **Translation India**, accomplished live translation of the entire Summit in Hindi. The translation booth at the event was a major advantage for those who were more comfortable in Hindi.

**The Feedback**

"I think the Summit has been an overwhelming success and most were happy with what we had delivered. Our focus was on delivering great content and people were there for the content. Also, as more and more applicants registered for the event, the screen got bigger, the cameras got better, the ability to give delegates a visual impact got better. This is how we put value into everything. All our efforts were concentrated on doing a good job and this was well appreciated."

Commenting on the Summit, Ashish Saxena said, "I would like to thank EventTech Academy for organizing this Monitor Mixing Summit. It is a great initiative on Warren's part to do something like this and I hope we carry this forward and do more such summits."

"I think it's an excellent initiative because everyone is in search for knowledge and information and if we can attract 200 odd people, I think it is amazing as it can only make the industry better. I don't think you can go wrong with an initiative like this. All the knowledge and information that delegates are getting today is real life, ready to use in the field of working and it is very difficult to get all this information at one place within a duration of 12 hours," said Fali Damania.

One of the delegates at the Summit, **Nixon Johnny** of NJSM Rentals, says, "We had a very fruitful day today. I really feel they should have these kinds of sessions on other related topics too."

"I think Sound.com and EvenTech Academy has pulled off something

incredible. Education is the need of the hour. Warren has done a great job and I hope this momentum grows and only grows into something bigger," said **Aditya Modi** of ModiDigital, another delegate at the show.

**Learnings**

Warren also elaborates that there were many learnings from their maiden voyage in education. "There were many areas we can improve in the future and that spanner is already in the works. We well received everyone's feedback on what they liked and where we could improve and this is the best thing about our academy; although our curriculum is autonomous our delegates feedback is taken very seriously and that's how we grow."

**Conclusion**

The Summits success was a manifestation of so many things from the subject, content, speakers and marketing. Organizing this was probably only 50% of the effort followed into flawless execution from accreditation, registration, venue and on ground larger than life tech centric teaching aids resulted in the manifestation of punctuality which was overwhelming. Starting on time, running to schedule with enough time to take questions post the applications workshops and panel discussions, seemed like the event ran in auto-pilot. Each delegate went home with a Certificate of Achievement and the event concluded on a high note with drinks and networking for all. Kudos EventTech Academy!



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9<sup>th</sup> edition

# PALM SOUND & LIGHT AWARDS

## Osram Clay Paky **SHARPY PLUS - OUTSTANDING LIGHTING PRODUCT INNOVATION**



*The PALM Sound & Light awards honoured Osram Clay Paky SHARPY PLUS with the award for Outstanding Lighting Product Innovation of the Year at the 2019 awards ceremony. Clay Paky has always been a market leader in entertainment lighting and with the Clay Paky SHARPY - a phenomenal product of micro engineering, the company's growth graph was further propelled into the stratosphere. However, rather than sit on its laurels, the company continued to innovate with the SHARPY PLUS.*

**T**he SHARPY PLUS, touted to be the first true 100% HYBRID unit, able to be a perfect beam light and a perfect spotlight is a worthy successor to its iconic predecessor – Clay Paky SHARPY.

Just as the SHARPY was a beam moving light for all budgets, the SHARPY PLUS too is a small



## Global Brand Winners

**Bose Corporation**  
**d&b audiotechnik**  
**Madrix**  
**Harman International**  
**Yamaha Music**

**Osram Clay Paky Sharpy Plus wins the PALM Sound & Light award for Outstanding Lighting Product Innovation. Pankil Ahuja and Kapil Saikia from the Osram India office accepted the award**

# CLAYPAKY

gem of lighting technology - the first true hybrid unit that everyone will aspire to buy. Suitable for every occasion, its extraordinary luminous efficiency ensures substantial savings through lower power consumption.

It is fitted with an Osram Sirius HRI 330W X8 lamp. Clay Paky has pragmatically chosen a discharge lamp for this unit, because, while seeking extraordinary yet cost-efficient performance, it is still the technology that ensures the best lumen/watt ratio and best \$/watt operating costs.

The Sharp Plus' body is slightly larger than the Sharpy's, to house a high quality optical unit with a zoom that ranges from 3° to 36°. Without this lens, the SHARPY PLUS would not be the full hybrid light that everyone wants.

Its minimum beam angle of 3° makes it possible to generate the narrow parallel light beams essential for beam light mode and the wide zoom range allows large beam angles, making the SHARPY PLUS a perfect spotlight for all purposes.

The SHARPY PLUS has two independent operating modes: in BEAM mode, the aerial effects are enhanced by the way the Sirius lamp is made. It is capable of extraordinary power output (over 300,000 lux at 10m distance), which the optical unit enhances through a marked hot spot. In SPOT mode, the light is diffused in a more even way, which means visual effects can be projected with excellent uniformity. Its 3° to 36° (1:9) zoom covers the entire range linearly, both in spot mode and in beam mode. This feature makes the SHARPY PLUS unique. A wide range of effects and color production tools is novelty in a light of this size and power category.

For Key Features, Mechanical Specs and Weight & Dimensions of SHARPY PLUS, turn to **Product Focus on Moving Heads (pg.82)**.



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### Claypaky's Sharpy Plus Wins Product Innovation Award at India's PALM Expo in Mumbai

(June 17, 2019) – Claypaky's Sharpy Plus fixture won the PALM Sound & Light Award for Outstanding Lighting Product Innovation at PALM Expo India 2019, which recently concluded at the Bombay Exhibition Centre of Mumbai.

PALM Expo is India's foremost exposition for pro audio, lighting, live sound, installed sound and AV integration for the entertainment, events and music production sectors. The expo's Sound & Light Awards honor professional excellence and contributions to the events entertainment industry.

"Sharpy Plus is a game changer for Claypaky in the Indian market," says Pankil Ahuja, Claypaky's Sales Manager for India. "Sharpy Plus launched in India at the PALM expo and quickly won honors as outstanding lighting innovation. Many prospective customers requested demos units for evaluation for their inventories."

Sharpy Plus is a true hybrid unit serving as a perfect beam light and a perfect spotlight suitable for every type of application. Its extraordinary luminous efficiency ensures substantial savings through lower power consumption. Sharpy Plus offers a wide range of effects and a high light output beating all other lights in the same category.

Ahuja notes that Sharpy Plus not only meets the demands of the price-sensitive Indian lighting industry, it's also trending among a new generation of lighting professionals seeking high-quality luminaires for high-profile applications. "Sharpy Plus fills the needs of any rental company that wants to do quality shows with a cost-effective unit," he says.

Claypaky fixtures played a leading role in Grammy and Academy Award-winning Indian musician AR Rahman's live Flowers TV show, which played to two days of sell-out crowds in Kochi, India.

Company Profile:

Claypaky is part of the multinational company Osram and a worldwide reference brand in the professional lighting industry. Claypaky lights are used in top productions in the theatre, television, live events, the fashion world, fairs and exhibitions, and are installed in the best clubs, bars, theme parks, shops, conference rooms and architectural environments.

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

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**“APART FROM EDUCATION AND GIVING PEOPLE ACCESS TO PROFESSIONAL TRAINING, IT’S ALSO ABOUT BRINGING THE COMMUNITY TOGETHER AND THAT’S A REALLY IMPORTANT ASPECT IN A GROWING INDUSTRY”**

**- WENDY GRIFFITHS, VICE PRESIDENT GLOBAL DEVELOPMENT**



**Smita Rai with Wendy Griffiths at Cedia's Training & Tech Summit Event held in Mumbai**

*Mumbai's AV Consultants and Integrators congregated at CEDIA's Training & Tech Summit Event held from 7th to 9th August at the MCA Club in Bandra, Mumbai. AV-ICNx caught up with CEDIA members present at the event, studiously attending all tactical sessions. Smita Rai caught up with Wendy Griffiths - Vice President Global Development for CEDIA, at the sidelines of the event to find out more about CEDIA's activities in India.*

year we had **Roopesh Shah** come on board, so now we have a dedicated resource in India. I think he's going to make a huge difference. We've certainly seen a massive increase this year with sponsorship and with attendance for this event but also we've had six member companies renewing off the back of this event.

**What is the schedule for the ongoing Tech Summit?**

We started the summit this week on Tuesday, 6th August, with what we call as the CEDIA Accredited Presenter training. This was a training course for eight people who we have identified as subject matter experts. We took them through presentation skills training so they could become senior presenters for us and actually offer education for us on a regular basis. Up to now, we've been very dependent on international presenters

and subject matter experts coming over, which is fine. We want to continue to do that, but we also want to have local subject matter experts who can actually offer education for us on a regular basis. We want to get as many people trained as possible and get people through certification exams and get the core curriculum out to the Indian market.

Yesterday, Wednesday, 7th August we held our Manufacturer Product Training Tech Summit. So that was an event where we had an attendance of probably about 110 to 120 at the peak of the day. We had 10 sponsors and they did manufacturer product training. CEDIA had all the sponsors talk about their latest products.

I did a presentation on Working with Design Professionals like architects and interior designers. We had a gentleman from the IIID come over to understand more about what CEDIA

**What is CEDIA's Primary Focus at this moment?**

Establishing CEDIA as an entity outside of the two core countries of the UK and the US is the agenda. We have four focus countries for development within this strategy at the moment, which is Australia, India, Canada and Mexico.

**What do you think about India as a market?**

It's amazing! It seems to be really buoyant. One of the things that

amaze me is what I learn from the peer group discussions that take place. Everyone here has an altruistic wish to grow the industry and grow more efficiently. They are quite happy to work together with competitors to make that happen which is a great thing for me to see.

**How many members do you have in India?**

50, as of March this year. We always dealt with India out of the UK office and from end of March this

“There are a couple of focuses for us in India. One is the Working Professionals Designs course. We also want to really start developing what we call our SEO high CEDIA Outreach Instructor programme. We call it CEP over here - Continued Education programme.”

does and how we can work with the IIID to raise awareness amongst Interior designers. We wrapped up the day with a networking event for everyone to get together.

Today (Thursday, 8th August) we are following up with the core curriculum. In the morning we had Project Management training for high performance Cinema Projects and in the afternoon we had Advanced Lighting Design training for Cinema Designers. In another room, we had the network training going on. We had **Peter Aylett** who is our international presenter doing the Project Management course and the lighting course and **Rajeev Jain** from *Play Technologies* who is our local presenter doing the network training for us. Tomorrow, we'll continue with more advanced networking training and an acoustics workshop.

**How many events does CEDIA do in India in a year and how long have you been having these events here in India?**

At the moment, we do our own standalone events, generally two in a year, but we're actually looking at a format for next year wherein we can do one big event and then a number of smaller satellite events to support that. We want to concentrate our efforts on one bigger event a year to get the industry together. It was commented last night that this is about the only time that the industry gets together and this is one of the core roles of CEDIA. Apart from education and giving people access to professional training, it's also about bringing the community together and that's a really important aspect in a growing industry.

We have been doing these events in India for five years now and it's been continuing to evolve. We have

been managing this very much out of the UK. So we'd come to India and do the events and then unfortunately there was no continuity in between which is where Roopesh now comes in.

This is the first time that we have done a four-day event, however. Some people have been here for four days, which is amazing. To take time out their business to do be here is phenomenal. Also, this year we found that it's been very regionally inclusive. We've had a lot of people from Bangalore and Delhi too; basically from all over which is again great.

**Your future plans for India?**

There are a couple of focuses for us in India. One (and it started off pretty much yesterday) is the Working Professionals Designs course. We also want to really start developing what we call our SEO high CEDIA Outreach Instructor programme. We call it CEP over here - Continued Education Programme.

The programme enables members to develop relationships with interior designers and architects and gives CEDIA members a platform to get in front of these very valuable professionals and talk to them about what they can do and how they can enhance their client's lifestyles. The programme helps raise awareness of CEDIA, its members, and the home technology industry to design professionals. That's a big part of what we want to do.

The other part is we really want to continue with the development of education and professionalism in the market. We push with certification exams and we have certification for technical design and networking. The focus for us going forward is getting people up to certified levels in those disciplines.

The other discussions we are having is on how we can educate people at that college and university levels and even maybe the school level about the opportunities available to have a career in this industry. We want to try to bring new people into the industry who want to build a career in this area.



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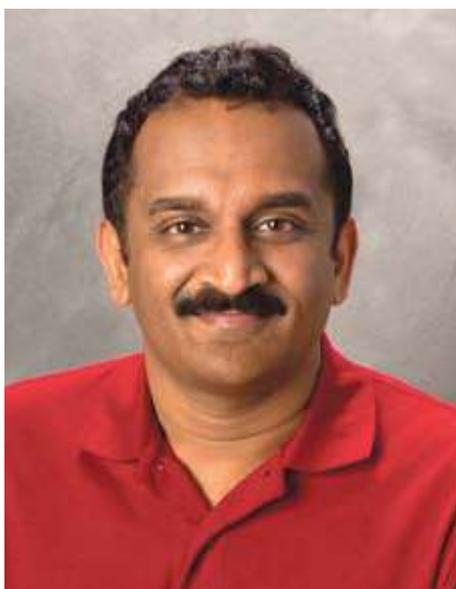
# OHM at India's Greatest New Landmark

## — DIGHA CONVENTION CENTRE

**D**igha is West Bengal's most popular sea resort. It is located 187 km South West of Kolkata. Chief Minister Mamta Banerjee had earlier laid down the blueprint for the creation of a unique Convention Centre to promote business and tourism in New Digha. The Digha Convention Centre is now ready with a robust OHM system.

### The Auditorium

The auditorium design was challenging because of the sheer size, mounting restrictions and quality expectations. After ample deliberation, OHM chose a TRS 212 FOH system with a TRS 112-HN downfill,



**Sushil John, Executive Director, APAC, OHM**

with lip-fills for the front rows and filters across the audience areas. The upper balcony and under balcony had a pair of OHM's BR series wide angled speakers. TRS 115's covered on the stage monitoring while KS-3's took care of the reference and control rooms and ceiling speakers were installed in the green rooms. The systems were tuned on OHM's Spyder software and Cleo MK3 DSP units to achieve a perfect blend of power & performance.

"The system is acoustically brilliant, easy to use and ready to withstand years of use." says, **Sushil John**, Executive Director, APAC, OHM.

### The Exhibition Centre

Digha Convention Centre has a dedicated exhibition space for promotion of businesses and events in the area. The exhibition space has been built upto international standards and will host multiple meets & events in the sector of tourism, commerce, and trade among others. The area is engulfed by OHM's Boutique Speakers, which can be used as BGM or Announcement Systems.

**Kamal Bhunia**, Sales executives, East India, OHM, says, "OHM has designed a distributed system to ensure superior sonic performance for BGM & announcement systems."

### Seminar Halls & Conference Rooms

The Seminar Halls & Conference



**Seminar Hall & Conference Room at Digha Convention Centre**

Room have a dedicated PA & conference systems. They are designed using the latest ceiling array microphone technology, with OHM's KS & BAT series speakers reproducing crystal clear output across the areas. These areas will host board meetings, smaller conferences & workshops, professional gatherings and more.

"Sound Design in conference rooms

and seminar halls is a key aspect of the place's user experience. We have kept ease of the use and minimum interference at the top of our design priority list for an unobtrusive and enhancing sound design," said **Anindya Bhattacharya**, Senior RSM, East India, OHM.

#### The 5-Star Hotel

Since the beginning, it was planned

to have a lavish hotel within the convention centre to further enhance the experience of professional travelers at the venue. The hotel, will soon be taken over by a reputed brand, and is a live-star property with a spa, banquets, restaurants, a bar and more. Each of these areas was complimented by an OHM sound system that

**The Digha Convention centre has a grand auditorium, exhibition centre, Seminar halls, conference rooms and a 5-Star hotel, all of which is deployed with OHM Sound systems.**

#### List of equipment used:

- **TRS 212** FOH system - Auditorium
- **TRS 112-HN** downfill - Auditorium
- **BR series** wide angled speakers - Auditorium
- **TRS 115** for stage monitoring- Auditorium
- **KS-3** for reference and control rooms - Auditorium
- **OHM Spyder** software - Auditorium
- **Cleo MK3** DSP units - Auditorium
- **OHM KS & BAT** series speakers- Seminar and Conference hall
- **BOOTIQUE** series- 5-Star hotel.

enhances the ambience and lifts the energies of the patrons. The hotel has OHM's BR Series & Bootique series speakers across the various amenities and public areas.



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by Abhimanyu Malhotra, The Sonic Arts Co.

The hip-hop movement in India has been snowballing for the last few years gaining critical momentum through the release of the Oscar-nominated film *Gully Boy*. Hindi and regional rap has made its way from the gullies of Dharavi to the big screen and has even created an impression on east coast rap mogul Nas. There is no better testament to this journey than the debut album of Divine, the golden child of India's hip-hop scene. Titled *Kohinoor*, the 8 track album was released in early October on Nas-owned Mass Appeal Records and marks a significant milestone for the hip-hop community. The DNA of hip-hop is not just defined by the beats, but also through lyricism and language. It is a vehicle through which the stories of struggle are narrated, infused with a rhythmic cadence or 'flow' and generous dose of local slang that gives it authenticity and identity. The genre is further defined through a range of production and mixing techniques, from booming 808 drums to sampling jazzy breaks and catchy musical toplines. *Kohinoor* is written with this DNA at heart, a solid musical record that could have been made to shine brighter on the production and mixing front.

### The Review

For the purposes of this review, the music was heard through Audeze LCD2 headphones as well as Adam A5X studio monitors.

What sticks out on first impression is the range of music and production styles that span the album, from east coast and old school hip-hop to more contemporary trap and even dancehall beats. It is not often that you hear such a range of production styles, especially since an album is an artist's endeavour to define one underlying sound through multiple narratives. Albums are usually milestones in the evolution of an artist's sound and *Kohinoor* is more of a showcase of the various styles through which Divine defines his art form. The album has tracks that would take off on a dance floor, featuring catchy hooks mixed with heavy bass

and kick drums like *Chal Bombay*, to head-bobbing story based tracks like *Kohinoor*, and even soulful R&B influences heard on *Too Hype*. This type of album programming would seem a bit confusing to traditional hip-hop audiences in the West. However, India has a deep rhythmic culture that ranges from the pulsating beats of Ganpati to more half-time dhol rhythms, so we are no stranger to a diverse palette of percussion and our ears are already tuned to digest a variety of tempos and rhythmic feels.

The overall mix on the album is quite enjoyable, however it does get a bit 2D at times. An immersive 3D mix style with a wide dynamic range is something which keeps the listener engaged and prevents ear fatigue. This can be brought out through a more comprehensive use of the mixing space; panning out

**The album has been mixed and mastered by Charles Wakeman at Circle House Studios and Abhishek Ghatak at Headroom Studios.**

instruments and introducing light movement in elements to play with the stereo sound field. It is also a great way to subtly create tension and release over the duration of a track, using mix techniques to feed the narrative of the song. Focusing in on the vocal mix, they strive to be strong and upfront with not a lot of FX going on. The amplitude and EQ levels seem to vary on the vocals, sitting well on the mix like in *Vibe Hai*, yet appearing muddy like in *Gandhi Money*. This variance is often a result of using different vocal mixing chains and calls for a consistency in dynamics. Frequency masking is an issue that can arise from having too many elements sharing the same space,

and that can be heard especially in the low-mids in tracks like *Remand*. Too many instruments are fighting for presence in the 200-1000 Hz range, which dilutes the punch that is needed for an impactful mix. In contrast to this, *Too Hype* has a well established relationship between the vocal and the instrument elements. A stronger balance between dry and wet vocals could have been further explored, introducing more reverb automation, delays, harmony stacks and FX processing that would add the bells and whistles or ear candy to really make the vocals pop. The sound of the vocals across the tracks should ideally have one defining characteristic that is consistent and emphasises the sweet spot, and the rest of the mix should be built around this focal point.

Instrumentally speaking tracks like *Chal Bombay* and *Wallah* have a beautiful and well rounded feel in the low end and all the layers sit together in a tight mix. They have a good amount of bounce and punchy percussion and really deliver a satisfying experience to the listener. *Chal Bombay* in particular also has a nice sparkly high end that seems to be missing in other tracks and really stands out as it has good presence across the full frequency spectrum. The final track *Too Hype* has the most dynamic mix on the album, and the instruments are arranged and mixed in a real-story telling manner with an ebb and flow in the percussion. Built on low end, hip-hop mixes can become too boomy if proper control is not exercised. Rather than boosting EQs, a standard trick is to introduce upper harmonics through saturating the low end in order to give it presence. This also allows one to better define where the kick, bass and vocals sit in the low mids, since these are the 3 elements that are often fighting for space and presence. Most of the tracks also feature pads or sustained melodic content in the background that adds a nice tonality, but remain



static for the most part. Often overlooked, sidechaining is a great technique to make such layers pump and breathe with the drums or with other topling melodies.

Marking a significant milestone for Indian hip-hop, *Kohinoor* is definitely a diverse showcase of the artist's lyrical style and story telling ability. Favourites like *Chal Bombay* and *Too Hype* are real indicators that homegrown Hip Hop is reaching global standards in terms of mix and production. The album is his story and speaks to his audience, and his journey from a youtube rapper to the big leagues is something a lot of young MCs look upto. Indian hip hop has spread like a wildfire, and the flag bearers now also have the responsibility of growing and progressing the sound and style into an art form that cross borders, not just be enjoyed domestically within the country. The music and vocals for *Kohinoor* were composed and recorded by a number of producers such as Ill Wayno from NYC, Phenom from Goa & Xplicit from Delhi. The album has been mixed and mastered by Charles Wakeman at Circle House Studios and Abhishek Ghatak at Headroom Studios.

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

# HOME CINEMA

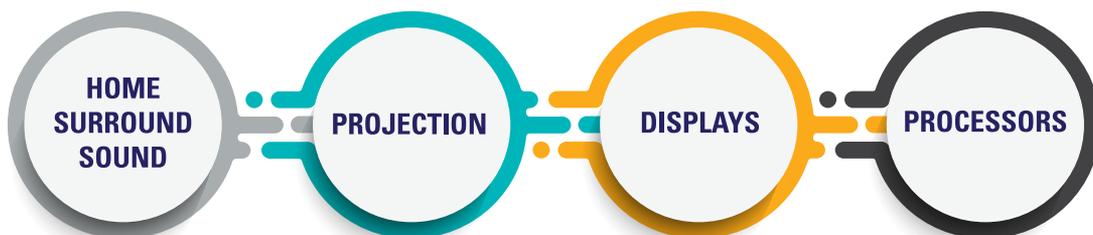
  
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## BOOM OF THE VIDEO CONTENT CREATION INDUSTRY

With ever-increasing online video content consumption in India, the world has witnessed the rise of 'Online celebrities' and 'influencers'. They are the role model of today's millennials and have a great impact on shaping their perception. With the average of 300 hours of videos uploaded every minute, YouTube has become a launch pad for vloggers. Good content creators have been able to gain attention of masses, millions of followers of these young content creators is a testimony of their ever increasing popularity.

Channels like YouTube and Instagram have become an easy platform for people to showcase their talent and connect with everyone and also get instant feedback in terms of likes and comments. Overall, the worldwide digital video viewers has grown from 372 million to nearly 700 million, a whopping increase of 87%. The time spent on videos also has risen sharply by 120% from 26 minutes per day to nearly an hour which is fuelled by the increasing use of mobile rather than desktop viewing. Globally, 44% of all internet users



– **Vipin Pungalia**, Director - Professional Segment, Sennheiser Electronics India.

watch a vlog each month which is why vlogging has become a big business. The digital video advertising budgets are also set to grow at a faster pace than TV counterparts. Hence, youngsters are considering full time vlogging as a serious profession.

As surreal as it may sound, Social media has acted platform to reach out to global audience and create a fortune by creating branded content. They have increased their number of

followers, sometimes even exceeding the fan base of a celebrity on social media.

Technology has changed the face of vlogging. Earlier, vlogging was an tough business with multiple recording support and equipment to create good quality video. Creating good quality content use to come at cost. As technology progressed, vloggers forwent the video camera equipment and simply captured variety of content through their smartphones. The smartphone cameras are enabled with features such as image stabilization, low-light recording to produce high quality videos which makes it a perfect partner even for beginners. Smartphones don't match with the output experience of editing software such as Final Cut Pro or Adobe Premiere Pro, however they allow the vloggers to create in depth videos with minimal investment and faster turnaround time.

With such advancement in the smartphones, the only feature which it lacks is the audio which is not as up to the mark. Vloggers who

cook or take interviews or showcase their singing capabilities, regularly face the issue of poor audio quality. Sennheiser has addressed the audio quality concern with the wireless microphone- Memory Mic which connects with a smartphone's Bluetooth to commence recording. However, the key differentiator with other smartphone-connecting microphones is that Memory Mic records the audio of up to 4 hours in its internal storage and not on smartphone. It eliminates the limitation of always keeping microphone within the smartphone's Bluetooth range. Through its omnidirectional condenser it records pristine audio. And, when the recording is complete the audio can even be synced to the video through the Memory Mic app. It is an ideal tool for vloggers who seek good quality audio for their creative videos.

While pursuing their passion and by creating unique content, vloggers – be it professionals or amateurs – have an equal chance to connect with their viewers and make a living for themselves in the digital era.

### Modern Stage Service Projects delivers awe inspiring... *(Continued from page 42)*

and discuss with Shri Atul Tiwariji who was conceiving the story and script of the grand spectacle. After discussions, decisions like - when to introduce the water screen or which tree to light last to bring about elements of surprise and scale were taken," says Ghosh.

Elaborating on the visual content,

Ghosh says, "Considering the overall layout of the site with its pond, walls and the many surrounding banyan trees and the famous Vat Vrishk tree, the 45 min show immerses viewers into a physical space. The Cheer-Haran sequence and the War sequence are crowd favourites. When for the first time the chariot

with Arjuna and Shri Krishna enters the battlegrounds on an almost invisible large 60 ft water screen, audiences are left in awe. The green screen shoot with mythologically dressed television actors and dancers was fun but seeing a simple green screen shoot transform into a VFX shot on screen in the virtual

world was even better."

He further adds, "However, the main challenge was to show the 25 key shlokas, which formed the crux of the show especially to do justice to the eternal life lessons while also simplifying it for the audience all age groups and cultural and geographical backgrounds. Thanks to the script writing and the wonderful narration using the Vat Vrishk as the Sutradhar (voice of **Shri Vijay Vardhan ji**) we were able to create a visual narrative. Overall it was not possible without the planning and execution by MSS world team."

Davinder Wadhwa, Director, MSS Projects said, "Modern Stage Service Projects undertakes only selective Projects. All projects completed by us are unique. The Show at Jyotisar has added one more feather to MSS World's cap."



The Cheer-Haran sequence is a crowd favourite

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# PALM SOUND & LIGHT AWARDS

## Sound Emporium - LIGHTING INTEGRATION

*The PALM Sound & Light Awards honoured Sound Emporium – one of India’s premier lighting company, recognized for delivering quality technology at affordable prices, with the award for Excellence in Lighting Integration for their exceptional work at Albert Hall Museum in Jaipur, Rajasthan. This feature provides an insight into the company’s activities and readers an opportunity to Know the Winner.*

Albert Hall Museum installed with 350 Osram KREIOS Wedding PARs looks resplendent at night



The foundation of one of India’s leading suppliers and distributors of lighting equipment - Sound Emporium, was laid in the year 1999. In a very short period, Sound Emporium under the leadership of **Mr. Nawal Agarwal**, created an irreplaceable name in the Indian market for supplying quality pro light & sound system equipment at reasonable rates.

**Beta Three, Osram, A Pro, XMLite and Novacorp** are just some of the prestigious brands Sound Emporium has today, as their channel partners. The company also has a dedicated Service Center division to facilitate trouble free & smooth after sales requirements of clients.



**Nawal Agarwal, Managing Director, Sound Emporium**

Lighting is a critical component for any venue and more so at venues like museums as it facilitates an interactive experience. Through an established connection with dealers and a huge customer base, Sound Emporium caters to the lighting requirements of segments from events, clubs and studios to archtainment lighting.

**Albert Hall Museum** also referred to as the Government Central Museum, located in the Ram Niwas Garden of Jaipur is the oldest museum in the state of Rajasthan. The authorities at the museum approached Sound Emporium to provide the best lighting solution that was in tandem with the allotted budget and requirement.

In order to ensure that the

lighting fixtures delivered optimum results while keeping the budget intact, Sound Emporium installed 350 Osram KREIOS WEDDING PAR fixtures enhancing the beauty of the museum. With its robust German design amplifying the power of high quality LEDs, KREIOS WEDDING PAR supplies a multitude of settings that clearly express and amplify emotions with light. It’s fully dimmable, features a strobe function, coordinates with a diffuser and has color mixing capabilities.

The beautiful lighting display in changing colours that attracts tourists to this famed museum in the evenings is what won Sound Emporium the esteemed PALM Sound & Light trophy in May this year.



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## ROBE LAUNCHES ESPRITE LED MOVING LIGHT

Moving light manufacturer Robe launches its new **Esprite LED** moving light. Reportedly, Esprite is the first in a new series of Robe luminaires to feature a fully replaceable / transferable white source LED engines.

This high-performance luminaire can potentially replace old and entire fleets of workhorse discharge fixtures.

Offering a cost-effective and easily changeable LED engine, Robe has eliminated the white source problems of unpredictable life and performance inconsistency.

The LED module holds a host of useful data in addition to the date, serial number, and usage, which can be accessed via a free mobile App.

The crystal-clear, extremely bright

and hugely economic WTE LED engine signals another wave of true lighting evolution

Due to this powerful LED light source and a highly efficient optical system, the fixture is outputting 27,000 Lumens. With this amazing power and a way-cool set of features, the Esprite will stun and impress users working across all lighting disciplines.

Other design innovations include a new cooling system that removes any airflow over the optics, resulting in reduced residue deposits and vastly extending the periods needed between cleaning sessions.

A 5.5 – 50° zoom range provides a high-quality flat-field beam, combined with fabulously smooth CMY colour mixing, extremely fast bumping colour

wheels and a unique coloured prism for producing a new level of effects and animations.

Versatility can be maximized with effects like the animation wheel, variable CTO, two colour wheels, rotating and static gobos, a 6-facet rotating prism and a selection of 1° and 5° frosts.

Together with a set of accurate framing shutters, and invaluable LED 'adjuster tools' like C-Pulse™ flicker-free management for optimization with the latest HD and UHD cameras, the unit also has L3 (low light linearity) dimming for perfect results in the most demanding of performance conditions.

All these factors ensure that Esprite



will enjoy great longevity and provide the excellent maximum short, long, and extended ROI that's synonymous with Robe products.

## ADJ'S HYDRO BEAM X1 MOVING HEAD BEAM FIXTURE NOW SHIPPING

ADJ has announced the availability of its new **Hydro Beam X1** moving head beam luminaire. Reportedly, the second model to join the company's Hydro Series of IP65-rated movers, the X1 is a compact and punchy beam fixture designed to

which was released earlier this year. Harnessing the power of a potent Osram Sirius HRI 370W LL discharge lamp, the X2 model is the flagship of the range, offering an enhanced feature set and an incredibly powerful beam. The series will also

to the broad mid-market of the entertainment lighting industry," says **ADJ USA's** National Sales Manager, **Alfred Gonzales**. "And it's clear that lighting professionals agree, as the response to the Hydro Beam X2 – which has been out in the market for a few months now – truly has been incredible. Well-established ADJ users and new customers alike have

been impressed by everything it has to offer. So now we are very excited to be able to debut it's compact companion in the Hydro Series, the Hydro Beam X1. This small and agile fixture still packs an impressive punch, generating tight, vibrant beams that are ideal for concert stages and nightclubs both indoors and outside."



generate dazzling aerial effects.

Powered by 100W Osram Sirius HRI discharge lamp with a 9000K color temperature and CRI of 60, this unit offers an impressive 6000 hour typical lifespan and makes for a relatively low overall power draw of just 199W @ 120V (192W @ 220V).

The Hydro Beam X1 features robust construction and an IP65-rating.

The larger **Hydro Beam X2** unit,

soon be further expanded with the addition of the **Hydro Wash X7** moving head wash, a versatile fixture featuring 7 x Osram 40W RGBW 4-in-1 LEDs and a motorized zoom function with a range of 6 ~ 40-degrees.

"Here at ADJ we are very excited about the new Hydro Series, as we feel that it fills a unique niche offering high-quality, reliable, feature-rich IP65-rated moving heads

## AVOLITES RELEASES SYNERGY SOFTWARE

Having already won industry awards and being used on some extremely high-profile projects in its beta stage, Avolites reports that its new software control system, Synergy, is being released worldwide.

Effectively a free V12 software upgrade to both its lighting console and media server ranges, Synergy unites them, allowing lighting designers full visibility and fine control over both the lighting and video components of a truly multi-media performance.

Synergy allows users to quickly and simply pull control of pre-created screen surfaces and layers into a Titan-based lighting console at the touch of a button, or, vice

versa, create surfaces in an Ai media server from within the console interface. All operations occur seamlessly using Avolites' proprietary Titan Net protocol and take place on whatever hardware the user is running, from Titan USB interfaces all the way up to the Sapphire Touch console, and from Ai software licences all the way up to the super-powerful Q4 media server.

The software's new Lightmap feature allows users to stream Ai video colour data through any colour-mixing fixture group, to instantly integrate them into a larger video canvas. As a result, everything from high-res LED screens to LED

*(Continued on page 74)*

## NEW VL800 SERIES BRINGS VARI-LITE POWER TO COST-EFFECTIVE EVENT FIXTURES

Vari-Lite, has announced the launch of **VL800 Series** of fixed and moving head LED fixtures. These cost-effective event fixtures bring a feature set that is targeted specifically at mid-sized tours, productions, and entertainment lighting installations.

"Our goal with the VL800 Series was to bring event fixtures that have been built with the DNA of Vari-Lite," says **Martin Palmer**, Senior Product Manager, Vari-Lite and Strand Luminaires at Signify. "This means

introducing fixtures that look, move, and feel the way you would expect from us, but with a cost and feature set that are the right fit for installations and smaller rental applications. Our customers trust the Vari-Lite brand and the pre- and post-sale support behind it, and we take seriously our commitment to delivering on that promise."

The VL800 Series Includes:

- **Vari-Lite VL800 PROPAR** - An advanced, high output LED event PAR fixture that includes a quiet running motorized zoom. The fixture offers full

RGBW color mixing and has gel-matched color presets to deliver the same visual results customers are accustomed to, with multi-mode fan control for use in quiet environments.

- **Vari-Lite VL800 EVENTPAR** - The VL800 EVENTPAR is an LED retro-style event PAR perfect for a modern replacement of classic tungsten PAR fixtures. Designed to bring back the vintage stylings of the original lamps and PAR cans, the VL800 EVENTPAR will be available in both RGBA and warm white (WW) varieties, with output and color reminiscent of tungsten PAR 64 lamps. With an outdoor rating of IP24 for protection against water spray from any direction, the fixture can withstand rainy conditions at an outdoor event or installation.
- **Vari-Lite VL800 EVENTWASH** - The VL800 EVENTWASH is mid-sized LED wash moving head fixture that is extremely compact and

powerful. This fast-moving wash offers full RGBW color mixing and 7 individually controllable LEDs for easy split colors or pixel mapping applications. With controllable dimming and motorized zoom, this fixture moves and feels like a Vari-Lite, providing valuable features in a cost-effective mid-sized moving head.

"The new VL800 Series is a perfect fit for a variety of applications," says **Fernand Pereira**, Global Head of Marketing and Product Management, Vari-Lite and Strand at Signify. "Whether you have a handful of fixtures in a school auditorium or use a number of them together at a large event, VL800 Series offers a scalable solution that opens up a range of creative possibilities. With a perfect balance of capabilities and price, these fixtures embody exactly what our customers expect of an event line from Vari-Lite."



## NEW ELATION FUZE SPOT AND FUZE PROFILE

Elation Professional has expanded its popular **Fuze series** of LED wash luminaires with new profile and spot versions. Available now is the Fuze Spot and Fuze Profile with framing, both housing full-color-spectrum RGBMA color mixing systems. Also available is the cold white Fuze Profile CW with dual color wheels. All three automated LED moving heads offer the perfect fusion of

performance, features, and value.

The Fuze Spot and Fuze Profile are designed for a wide array of precision lighting applications, particularly theater, television and corporate event applications where high color quality, color manipulation and accurate color reproduction is needed.

Both luminaires house a 305W 92 CRI engine (6,500K) that utilizes a 5-color homogenized LED array of Red, Green, Blue, Mint and Amber sources. The carefully tuned RGBMA LEDs and high CRI ensure accurate color reproduction while delivering a powerful white output of over 10,000 lumens.

Fuze Spot houses two gobo wheels, both wheels with 6 rotating, indexing glass gobos that are interchangeable. The Fuze Profile LED framing fixture houses two gobo wheels - a 6-slot rotating, indexing wheel with interchangeable glass gobos and a 7-slot fixed wheel with glass gobos. A full blackout framing system with 4 rotating blades gives full control of the beam shape and can index +/-

45-degrees.

Compact, quiet and lightweight, both the Fuze Spot and Fuze Profile house a 7° to 42° motorized zoom and ship with an included snoot attachment. An animation wheel can be engaged to bring graphics to life while a variable frost filter can be employed when designers wish for softer gobo or soft wash effects. A 4-facet prism, motorized iris and high speed electronic shutter and strobe round out their feature sets.

The Fuze Profile CW with Cold White LEDs and framing system is an ideal tool for trade shows, stages, television, and a wide array of AV event applications. Designed to illuminate objects like exhibits and banners, texture areas, and provide a clean, flat-field keylight, the Fuze

Profile CW can be used anywhere a fully automated ellipsoidal fixture is required.

A 380W 91 CRI White LED engine ensures accurate color reproduction while delivering a powerful output of 11,000 lumens. Two color wheels with 7 solid colors and 7 correction filters (including UV) allow for precise color shade adjustment while a gobo wheel holds 7 rotating, indexing glass breakups that are interchangeable. The Fuze Profile CW houses a 9 to 43-degree zoom as well as a full blackout framing system with 4 rotating blades that can index +/- 45-degrees for accurate beam adjustments. Its comprehensive feature set includes a variable frost filter, motorized iris, and high speed electronic shutter and strobe.



[www.palmtechnology.in](http://www.palmtechnology.in)

## CHAUVET PROFESSIONAL INTRODUCES MAVERICK MK3 PROFILE

New Powerful **Maverick MK3** Profile from **CHAUVET Professional** reportedly has the versatility needed to excel in a wide range of other applications from high-profile events and festivals, to broadcast projects.

A fully featured 820W LED moving profile fixture, the Maverick MK3 Profile has a blistering output of over 51,000 source lumens, giving it the punch to create intense aerial effects, specials, and audience lighting at any touring show. In addition to this astonishing output, it offers a plethora of high-performance features, including a 4-blade, fully wiping shutter system that can rotate up to 60° in each

direction, for a total 120° rotation capability.

Adding to the fixture's versatility are its precise CMY + CTO color mixing and a fast 9:1 zoom ratio that maintains a flat field, and even focus from 6 degrees all the way out to 54 degrees. Due to its two overlapping prisms, two gobo wheels, two frost options (super-light and medium) and an animation wheel, the fixture creates captivating static, and dynamic rotating and animation effects.

Drawing on this extensive array of features, designers can use the Maverick MK3 Profile to create an endless variety of looks to reflect

different moods on the concert stage or event venue.

This feature-rich fixture also has an adjustable CRI from 73 to 93 CRI, making it ideally suited to use as a key light in broadcasted applications. In keeping with its flexible design, it also offers a variety of control options including DMX, sACN, Art-Net or W-DMX.

"We're very excited to be releasing the Maverick MK3 Profile," said **Albert Chauvet**, CEO of Chauvet. "This product is more than just a powerful light, it's also an extremely versatile tool; one that will open a great number of creative possibilities for designers and rental houses."



## ELUMEN8 LAUNCHES MP180 LED FRESNEL RGBALC

Bolstering eLumen8's **MP series** is their latest addition; the MP180 LED Fresnel RGBALC. With high quality dimming, a superb 180W light output and super smooth colour mixing this luminaire is perfect for short to medium throw applications including theatres and studios.

With an adjustable 13°– 46° beam angle an even field of light can be placed wherever needed. The addition of amber, lime and cyan within the COB LED source makes for perfect colour on any scene or subject, giving this fixture the edge over fresnels with only quad-colour LEDs.

**Andrew Jeffrey**, Managing Director comments, "Since the inception of this series the units have proved to be amazingly popular for many applications and this new addition with higher power and 6 colours will further expand the market for this series."

As with most others in the series, the eLumen8 MP180 Fresnel style fixture benefits from RDM, temperature-controlled fan cooling for whisper quiet operation, and a 4-push button display allowing users to select DMX and manual dimming modes along with dimming curves. A filter frame and barn door



are included as standard and the fixture come backed up with the eLumen8 2-year warranty.

## SOUND EMPORIUM UNVEILS XMLITE LLP400 IN INDIA

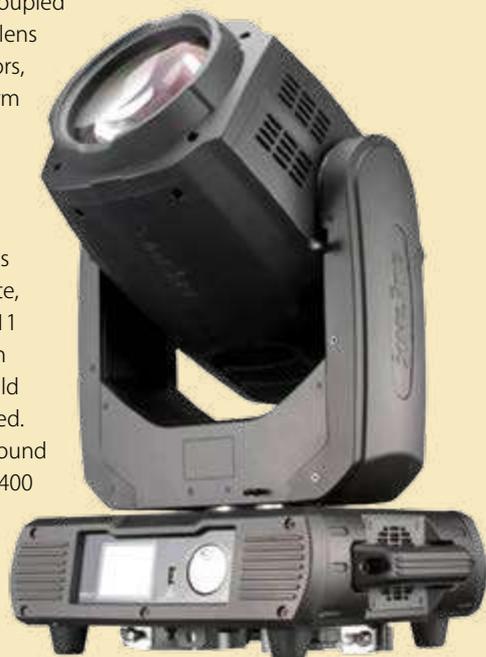
Sound Emporium has announced the launch of **LLP400** in India by XMLite.

This 400w beam moving light use efficient lamp and short distance condenser system, coupled with the high-quality optical lens components, extravagant colors, clear gobos, sharp and uniform output light which makes it perfect for weddings, stage lighting, DJ events, and live concerts.

This moving light comprises a color wheel: 14 colors+white, fixed gobo: 14 gobo+white, 11 kinds of a prism, two rotation prism wheel (3+2) which could be combined and adjust speed.

Nawal Aggarwal, Partner, Sound Emporium, says, "XMLite's LLP400 had a well-known reputation in the international market and now the only brand in India that offers 18

months or 500 hours lamp guarantee. Our promise was to bring the best products for our customers and we have delivered it by getting LLP400."



## LSC LIGHTING RELEASES LED DRIVER

LSC Lighting Systems has released their new LED-CV4 DINrail mount driver.

Reportedly, LED-CV4 is a 4-channel LED driver with a 5A per channel output and a 100% duty cycle, significant when compared to the competition. It also has built-in, short-circuit protection per channel with auto-reset, thereby eliminating the need to change fuses if the LED tape or cabling gets damaged.

Controlled via DMX and configured by RDM, the LED-CV4 has true 16-bit dimming for seamless professional dimming. If used in 8-bit mode, a smoothing algorithm allows for steeples dimming across the 0-255 DMX input range.

Current monitoring per channel and

variable frequency output come as standard and can be monitored and configured by LSC's new Houston-X software tool. Power input can be either a 12V or 24V DC supply and is fully rated to 20A.



# AV-ICN<sub>x</sub>

AV INTEGRATION COMMUNICATION NETWORKING

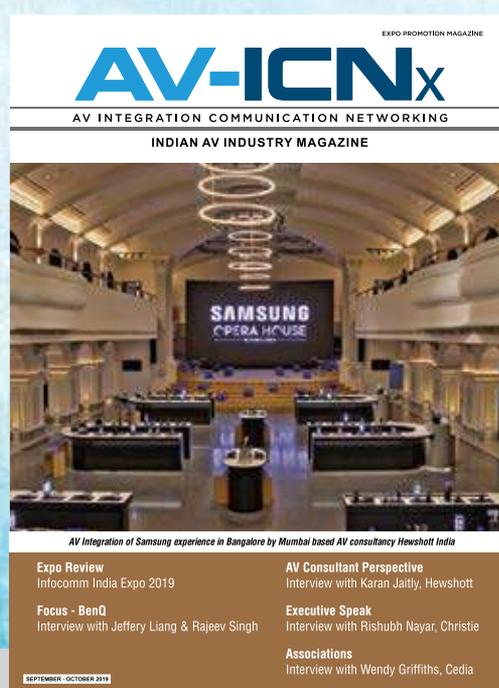
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## VOLITE LIGHTING ENLIGHTENS MISSIONS INDIA AUDITORIUM

**Missions India Auditorium** in Thiruvalli, Kerala has been upgraded with new lighting from Volite. The Galaxy Thunder LED RGBW Pars, supplied by **Anvil Solutions** were used for the installation. It was designed by **Timothy Vanderputt** and integrated by **Joe Mathew** from **R12 Solutions**.

Missions India is an indigenous, interdenominational Christian organization with a twofold ministry namely, revival of the church and the welfare of the people. One of their facilities is their auditorium where they host various events such as lectures, presentations, musical evenings and function gatherings.

"Lighting for such a space requires homogeneous illumination and quietness," explains Mathew from R12 Solutions. "We took into consideration the size, luminous efficiency, beam angle and decided to go with the Volite Galaxy Thunder LED GRBW Par. It offers great performance and is



**Mission India Auditorium installed Volite Galaxy Thunder LED GRBW Par**

also pleasing to the eye with a quiet moving head."

The management of Missions India commented, "The lighting is

perfect in illuminating the stage and providing a spotlight to all performers. It is part of our effort to participate and contribute in

transforming the lives of individuals and communities, spiritually and socially. Volite lighting is enabling us to do exactly this and enlighten all."

## ELATION EXTENDS PALADIN LINE

Elation Professional is offering three new luminaires in its **Paladin series** of versatile wash/blinder/strobe lights. The Paladin Cube, Paladin Brick and Paladin Panel - all with IP65 protection - are compact and powerful outdoor flood lights useful for a wide variety of applications from stage/set washes to dynamic uplighting and eye candy effects.

Using 15W RGBW cells - 9, 24, and 50 respectively - they add vibrant colour to outdoor events while individual cell control and strobe make them flexible effect lights or audience blinders. RGBW colour mixing gives a full spectrum of colour options, including high-impact white light, for beautiful floods or accents. For added dynamism, multiple pixel zone control can be incorporated for spectacular pixel mapped and eye candy looks.

The Paladin Cube houses nine 15W RGBW cells with 3 x 1 cell control. Output for such a compact unit is surprising at 3,200 lumens and operation is completely noiseless. it can work discreetly in any set or stage.

The Paladin Brick houses 24 x 15W RGBW cells with 3 x 2 cell control. With an output of 9,600 lumens, it is powerful enough to wash larger areas while its broader face makes for a truly flexible strobe/blinder or dynamic eye candy effect.

The Paladin Panel houses 50 x 15W RGBW cells with 5 x 2 cell control. Its 21,300lm output means it can function as a high-output wash light to cover large areas from a distance or as a brilliantly bright blinder, powerful strobe or large-face eye candy effect.

Simple to operate standing on a



floor or easy to hang in any orientation using the provided omega brackets, the new Paladin fixtures have a solid build quality and are certified to IP65 to eliminate any dust and water ingress worries. IP rated connections make suitable for illuminating large areas at outdoor events. An included diffuser softens and spreads the light while a range of optional diffusers, barndoor and shader add to their possibilities.

All three of the new Paladin luminaires operate via DMX and RDM protocols or can function stand-alone or in master/slave. Standard features include 5pin IP65 DMX In/Out and Seetronic IP65 Power In connections while a four-button OLED display makes for easy navigation through DMX and manual settings.

## AVOLITES RELEASES SYNERGY... (Continued from page 70)

fixture groups can be controlled from a single intuitive User Interface without the requirement to create and arrange fixtures in the media server or create ArtNet merges. Users can simply select the group and choose Ai in the pixel

mapper.

Synergy also allows for live video previews of up to six simultaneous streams from the media server, inside the Titan interface, giving users full control whether the servers are located FOH or elsewhere.

"From high profile rock shows to corporate presentations, lighting designers are being asked to increasingly combine lighting and video elements together for maximum impact," commented Stephen Baird-Smith, sales manager, Avolites. "As a

company that has both a lighting console platform and a media server range, we are ideally placed to bring them together into the same interface and are delighted with the new creative possibilities we have already seen realised from the beta programme."

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## CHRISTIE HS SERIES LASER PROJECTORS LIGHT UP FAÇADE OF DANDI KUTIR WITH STUNNING 3D PROJECTION MAPPING SHOW

*The light and soundmusical, which celebrates the life and works of Mahatma Gandhi, is the second largest permanent projection installation in India*

Christie HS Series 1DLP laser projectors deployed for a 3D projection mapping show on the façade of **Dandi Kutir** are mesmerizing visitors with vivid and lifelike visuals that celebrate the life and works of Indian

life, ideology, and works of the late Indian leader dubbed “the father of the nation”.

Since its inauguration by Indian Prime Minister Narendra Modi earlier this year, the show has become a huge attraction that draws thousands

“Having used Christie visual solutions for various multimedia exhibits in the Dandi Kutir museum to great success, the museum decided that Christie’s high-brightness laser projectors are best-suited to deliver the visuals required for this new light and sound musical.”

The D20WU-HS was ultimately chosen as it has the best lumen-to-weight ratio – able to achieve the brightness needed for bold and colorful visuals with 20,600 ISO lumens, and yet weighing less than 100 lbs.(42 kg) for easy access and maintenance. Moreover, due to the enhanced color accuracy of Christie’s patented BoldColor Technology, the powerhouse performance of the D20WU-HS makes it a viable alternative to similarly bright 3DLP projectors.

Gupta noted that after a detailed site survey of the surrounding areas,

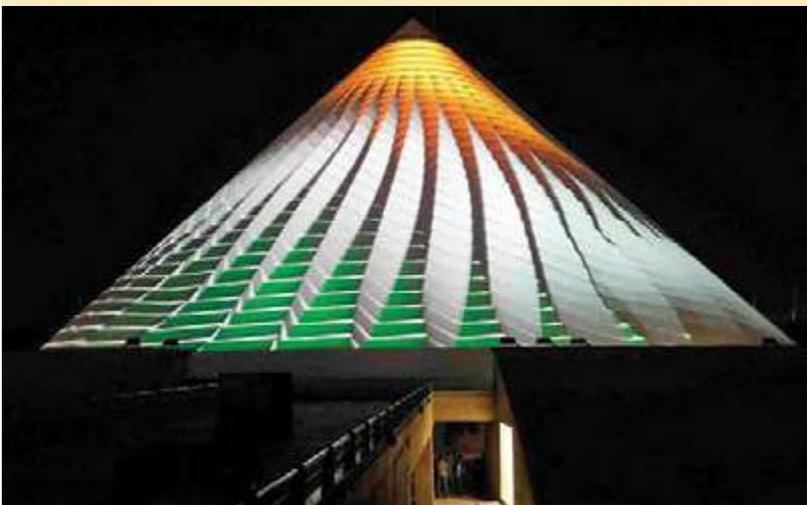
the difficulties associated with larger projection systems. I’m glad to note that the D20WU-HS projectors performed superbly as expected, delivering amazing, true-to-life visuals that impressed all visitors since the show made its debut earlier this year,” Gupta added.

**Michael Bosworth**, Executive Director, Head of Enterprise for Asia Pacific, Christie, commented, “We are delighted that Dandi Kutir museum has chosen our high-performance and robust D20WU-HS laser projectors for this new 3D projection mapping show on its iconic façade. Congratulations must go to Amit and his highly proficient team for completing a remarkable installation.”

Located in Gandhinagar, the capital of India’s state of Gujarat, Dandi Kutir is the biggest



The façade of Dandi Kutir museum is lit by 16 Christie D20WU-HS 1DLP laser projectors



Dandi Kutir 3D projection

independence and civil rights leader, **Mahatma Gandhi**.

The 30-minute show, which features stunning projections using 16 Christie D20WU-HS laser projectors on the surface of the salt-mound-shaped museum, is the second largest permanent projection installation in India after the Statue of Unity (the tallest statue in the world, which also employs Christie projection technology for its nightly projection mapping show). It has been described as a fascinating showcase that pays tribute to the

of visitors to the museum on a daily basis. The installation and commissioning of the show was jointly undertaken by Christie’s trusted Indian partners, Bombay Electrical and Nolabel Immersive.

“We are very pleased and honored to be involved in the creation and execution of this major 3D projection mapping show, which highlights Gandhi’s principles of cleanliness leading to self-empowerment and therefore creating a base for a decentralized, self-administered society and nation,” said **Amit Gupta**, Managing Director, Nolabel Immersive.



Bright and vivid projections on the exterior of Dandi Kutir museum during the 20-minute show

the team decided that the projectors had to be installed within two structures overlooking the left and right side of Dandi Kutir’s façade. The D20WU-HS were then fitted in stacks of eight on each side to provide full coverage on the museum’s wall.

“Once we had identified the appropriate positions for the placement of all 16 projectors, the rest of the installation went ahead smoothly as planned. Due to its light weight and omnidirectional capabilities, we were able to easily lift and set up the projectors without

permanent museum in the world based on the life and teachings of one man – Mahatma Gandhi. The museum takes the shape of a giant cone resembling a salt mound, which is a symbol of Gandhi’s historic Dandi March in 1930. Measuring 90 meters in diameter and 41 meters in height, the three-story museum creatively utilizes sophisticated technologies such as 3D mapping, holography, 360 projection, and transparent LED screens to provide a rich, multi-layered experience for visitors.

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## ALTMAN LIGHTING DEBUTS SIREN FOLLOWSPOTS

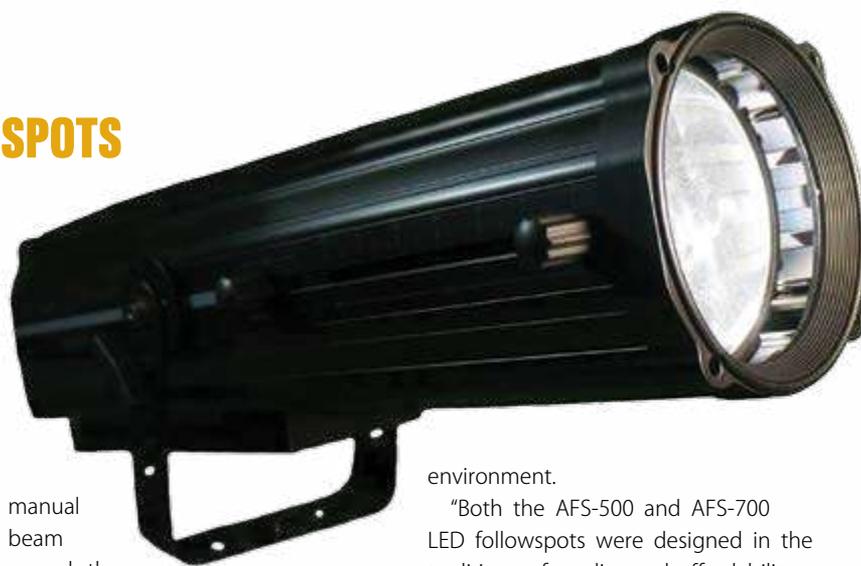
Altman Lighting has announced the **Siren Sferies AFS-500** and **AFS-700 followspots**. Designed to be a powerful yet economical solution for any theatrical design, the followspots provide the full functionality of a traditional followspot but are packed with powerful new feature sets and operator enhancements.

“Understanding the need for high-performance LED luminaires in today’s theatrical environments, we are very excited about the introduction of our new AFS-500 and AFS-700 LED followspots,” explains **Nicolas Champion**, Altman Lighting vice president of sales and marketing. “Along with the recently released AP-150 LED Par luminaire, our SIREN Series of cost-effective theatrical solutions were engineered to meet

and exceed the expectations of lighting professionals worldwide.”

The most compact of the Siren Series LED followspots, the AFS-500 is a lightweight, 490-watt, colour-changing followspot with a rich feature set. Using the on-board controller, the luminaire’s dimming, colour wheel, iris and CTO features can all be controlled manually or via DMX. Combined with an available colour boomerang and a manual zoom range from 7-13 degrees, the AFS-500 produces over 10,000 lumens of output for industry-leading power and flexibility in an affordable lighting solution.

Delivering almost 14,000 lumens with range up to 200ft, the AFS-700 offers a precision zoom system that delivers a 7-13 degree motorized or



manual beam spread, the luminaire’s 18-facet iris, dimming, CTO, and colour wheel can all be controlled via DMX, or on an adjustable control pad that adapts for right or left-handed operators. Additionally, with its quiet 37dBa maximum cooling system, the AFS-700 can be placed anywhere in your acoustically sensitive lighting

environment.

“Both the AFS-500 and AFS-700 LED followspots were designed in the traditions of quality and affordability which are known to be a foundation of Altman Lighting,” added **Pete Borchetta**, Altman Lighting product innovation. “While introducing several key, new features, these performance-driven and energy-efficient luminaires are packed with powerful capabilities that will accentuate any theatrical or live event lighting design.”

## POW-R BAR RACK USB: RACK POWER MANAGEMENT MADE EASY

ADJ has announced the immediate availability of its new **POW-R BAR RACK USB**, a power management solution designed to eliminate messy wires and extension cords. Perfect for controlling the power supply to lighting and audio equipment, the compact unit is ideal for use in installations as well as at front of house and monitor mixing positions, lighting desks and in mobile

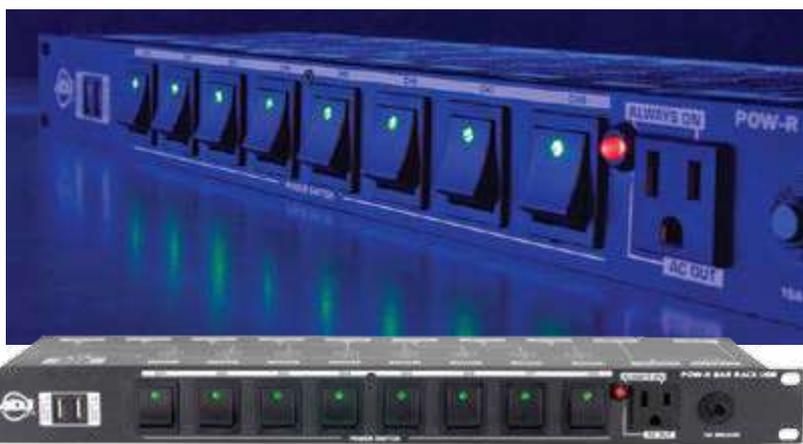
and **POW-R BAR LINK** linkable power block.

The new **POW-R BAR RACK USB** features eight 3-prongs 120V Edison sockets on its rear panel, which correspond to eight rocker switches on the front. In addition, there are two further 3-prong Edison sockets, one located on the front panel and one on the back, which are always on when the unit is receiving power.

it won’t add unnecessary weight to already heavy equipment racks.

“The original PC-100A has been a consistent best seller for ADJ over the past quarter century and the new POW-R BAR RACK USB builds on its winning design with the addition of two useful new features,” comments ADJ USA’s National Sales Manager, **Alfred Gonzales**. “Ideal for use in permanent installations at all kinds of venues ranging from churches to

nightclubs as well as for temporary event production and touring shows, this compact 1U device provides a useful power management solution for all kinds of lighting and sound equipment. In addition to eight separately switchable power sockets, it offers two useful ‘hot’ sockets – ideal for the connection of equipment that shouldn’t be powered off – as well as two USB outlets for charging of phones and tablets.”



entertainers’ setups.

Reportedly, building on the heritage of ADJ’s popular PC-100A, a power switching unit that has been on the market for over 25 years, the new POW-R BAR RACK USB retains the original tried and tested design but with the addition of dedicated Always On sockets as well as USB charging ports. The new unit expands the ADJ POW-R BAR range, which also includes the touring grade **POW-R BAR65** utility power block

The front panel also features two USB ports – ideal for charging phones, tablets and other USB powered products like a gooseneck light – as well as a reset switch for the internal circuit breaker.

The compact POW-R BAR RACK USB measures 19” x 4.44” x 1.75” / 482 x 112.7 x 44mm and is designed to fill a single unit of rack space. Despite its heavy-duty metal construction, it weighs just 4.2 lbs. / 1.9 Kg. making it easily portable and meaning that

## HIGH END SYSTEMS HOG V3.13

High End Systems has announced the latest upgrade to the popular HOG 4 lighting console range, OS v3.13. Hog 4 OS v3.13 contains improvements to the infrastructure of Hog 4

including a more robust handling of the command line and other internal processes. It also includes new additions to the Plots feature, including new plot objects like groups, palettes, and lists, including text in the plot, more options for handling images and shapes, align to grid and more.



Console Product Manager **Sarah Clausen** commented, “This release brings users some great new tools they can use in their plots, making them even more useful. In addition, we have brought back the ability to use multiple MIDI inputs on a system.”

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## PAUL COLLISON'S MA LIGHTING SEMINAR ATTRACTS LIGHTING DESIGNERS AND OPERATORS FROM THEATRE, RENTAL & SI MARKET

To understand more about professional lighting, MA Lighting in association with **Hi-Tech Audio Systems** has recently organized 3-day seminar about lighting design and programming in New Delhi from 3rd-5th October 2019. Australia's leading visual designer – **Paul Collison**, conducted the seminar.

Mr. Collison is the founder of Sydney-based design firm eleven

seminar attendees comprised mostly of veteran as well as young aspiring lighting professionals who are well aware about MA Lighting.

"I had such a great experience with the team from Hi-Tech Systems and the seminar attendees. I was impressed with the skill level of everyone involved and the discussions that took place during all three days. I feel, it was a truly rewarding experience for everyone. I look

from the software version 1.0, informing audiences about the kind of tools the new platform is offering them. We feel, we have opened a new frontier in the India Lighting Industry and Indian market needs these kind of seminars. The engagement along with Hi-Tech Audio is to keep bringing to the market these kind of training and education sessions. Networking Training will be next on schedule,

the grandMA3 software have been shared with the participants, giving them a glimpse of what can be expected from the software version 1.0. Majority of questions were about the various process involved in handling a show, something that Paul was very happy to discuss and share from his decades of experience in the industry. With the growing interest in networking and systems, we feel the need for organizing a Networking Training in India along with our distributor, Hi-Tech Audio Systems."

"It was incredible to see so many attendees turning up for the seminar in New Delhi", said **Rajan Gupta**, Managing Director of Hi-Tech Audio Systems. "I must say that Paul Collison is very engaging and he enlightened the attendees with his knowledge about lighting design and work flow of grandMA. This seminar was also very helpful for our in-house lighting technical team. We are immensely thankful to Franco, Luke, Vijay and the



The MA Lighting seminar organised by Hi-Tech Audio Systems, Delhi and conducted by esteemed lighting designer, Paul Collison covered a broad sphere of lighting topics that included 3D visualization for demo and presentation, management of a MA Network, approach to lighting programming, pre-programming, advantages of multi-user programming etc.

DESIGN. With more than twenty years of local and international experience, he has an impressive list of skills that include large-scale lighting design, motion graphic design and production design. Paul brings a keen eye for visual enhancement to every project. Since setting up eleven DESIGN in 2006, he's been a designer on various shows including 'The X Factor Australia and New Zealand', 'World's Got Talent', 'Asia's Got Talent', 'Eurovision – Australia Decides, Olympic and Commonwealth Games Ceremonies and a variety of many other TV events.

The seminar covered a broad sphere of lighting topics that included 3D visualization for demo and presentation, management of a MA Network, approach to lighting programming, pre-programming, advantages of multi-user programming etc. The

forward to more seminars in India and spreading knowledge about the fantastic lighting control system - grandMA and about lighting design in general", shares Paul Collison.

**Franco Zaghini**, Director of Business Development, MA Lighting said, "I have been extremely excited to attend this first Seminar organized by MA and Hi-Tech along with my colleagues Luke and Vijay. From my knowledge, nobody has organized such an event before and we were honored to have Paul Collison with us. He is a Lighting Designer of great knowledge and always sharing small details from his experiences. I was so happy to see so many lighting designers and operators from theatre, rental & system integration market segments."

He further adds, "**Luke Chikkala** our trainer shared the beta status updates of the grandMA3 software with the participants, giving them a glimpse of what can be expected



since the interest for this topic is growing and Networking is becoming a fundamental part of the Lighting System. Also on the horizon is the grandMA3 software training, on the back of the near future launch of grandMA3 software. Our plans along with Hi-Tech Audio are to give regular trainings so that anyone can start operating the new software."

"The workshop has gathered young lighting designers from theatre, rental & system integration market segments", shares Luke Chikkala. "One of the many interesting topics was about Eurovision Song Contest where Paul explained his journey in detail, from the first call he received from the Production Managers until the final day. The beta status updates of

entire MA team who supported us in every step to organize this seminar."

To add more about the seminar, **Kakkroda Ajay Teja**, MA Technical support & trainer shares, "It was a great pleasure to welcome Paul Collison to the MA seminar. This seminar guided the participants through the starting phases of big-scale productions. From methods of presenting an idea to client, management of time to approaching the final lighting design, Paul has shared his vast knowledge with all. Finally a big shout-out to Hi-Tech Audio Systems for organizing this amazing and motivating seminar in India."



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# Moving Heads

*Spotlight on Beam, Wash & Spot Moving Lights, launched in 2018-19.*

## Claypaky Sharpy Plus

Sharpy Plus is the first true 100% HYBRID unit, able to be a perfect beam light and a perfect spotlight. It is suitable for every occasion, with an extraordinary luminous efficiency, which ensures substantial savings through lower power consumption.

### Main Features include:

- Source: 330W X8 HRI Sirius Osram arc lamp
- 100% Hybrid projector
- Two modes: BEAM and SPOT
- 3°- 36° linear zoom
- 3° narrow beam angle
- Six beam reducers (down to 0.5°)
- 300,000 Lux at 10 m (much more than Sharpy)
- CMY color mixing
- 15 colors on 3 wheels
- 2 CTO filters
- Rotating Gobo Wheel: 8 interchangeable glass gobos
- Static Gobo Wheel: 18 fixed gobos
- Rotating 4-facet prism on dedicated channel
- Rotating 8-facet prism on dedicated channel
- Dynamic Animation disc
- Linear soft edge frost filter
- Dimmer and stop/strobe
- Dense, Sharp, Parallel Light Beams
- Extremely quick movements
- Excellent visual effect projections
- Wide and sharp aerial effects

### Technical Specification:

- Power Supplies
  - AC power input Neutrik PowerCON True1 (IP65) 100-240V, 50/60 Hz
- Input Power
  - 540 VA @230Vac - 50Hz



- Light Source
  - 330W X8 HRI Sirius Osram arc lamp
- Optics
  - Zoom 3°- 36°, Linear and motorized
- Color System
  - CMY color mixing
  - 15 colors on 3 wheels
  - 2 CTO filters
- Effects Section
  - Rotating Gobo Wheel: 8 interchangeable glass gobos
  - Static Gobo Wheel: 18 fixed gobos
  - Rotating 4-facet prism on dedicated channel
  - Rotating 8-facet prism on dedicated channel
  - Linear soft edge frost filter
  - Dimmer and stop/strobe
  - Dense, Sharp, Parallel Light Beams
  - Extremely quick movements
  - Excellent visual effect projections
  - Wide and sharp aerial effects
- Weight: 23 Kg (50.7 lbs)

## Elation Professionals Proteus Smarty Hybrid

Proteus Smarty Hybrid is full featured IP65 certified Spot, Beam and Wash Hybrid fixture for indoor and outdoor use. It features the all new Philips MSD Platinum 200 Flex lamp with "FLEX" technology, which uses a smartly designed discharge lamp/ballast package to produce high output and compact performance at an efficient, long life solution of up to 6,000 hours.



### Main Features include:

- IP65 Certified 3-in-1 Beam, Spot, Wash Hybrid Fixture
- Flex Lamp Technology from 190 to 280W and Lamp Hibernation with up to 6000 Hour Lamp Life
- Full CMY Color Mixing System
- Rotating and Static Gobos, Dual Prism, Frost
- Zoom from 1° Beam to 33° Wash and Auto Focus option

### Technical Specifications:

- SOURCE
  - Philips MSD Platinum 200 Flex 280W Lamp
  - Up To 6,000 Hour Lamp Life
- PHOTOMETRIC DATA
  - 11,000 Total Output Lumen (preliminary)
  - 128,426 LUX @15m (Beam Mode) (preliminary)
- EFFECTS
  - Beam, Spot and Wash Modes
  - Motorized Zoom 1°-18° Beam, 3°-27° Spot, 5°-33° Wash
  - Full Frost Filter for Wash Effects
  - 16-Facet and 5-Facet Linear Prisms
  - CMY Color, Gobo, Prism Macros
  - Motorized Focus with Auto-Focus Feature
  - High Speed Shutter and Strobe
- COLOR
  - Full CMY Color Mixing System
  - 13 Colors including Quad Color, CTO, CTB and UV
- GOBOS
  - 2 Gobo Wheels
  - 8 Rotating / Indexing Interchangeable Glass Gobos
  - 12 Static-Stamped Metal Gobos
- SIZE / WEIGHT
  - Length: 445mm (17.5 in)
  - Width: 454mm (17.88 in)
  - Height: 680mm (26.8 in)
  - Weight: 35kg (71.1 lbs.)
- ELECTRICAL
  - AC 100-240V 50/60Hz
  - 480W Max Power Consumption (estimated) 1

## Martin ERA 300 Profile

Martin ERA 300 Profile is a very compact profile fixture with an extremely efficient 260W white LED engine that produces a sharp gobo projection with a flat field and more output than typically associated with similar-sized and featured fixtures.

### Main Features include:

- 260 watt / 6,500K LED light source



- 9,500 lumen output
- Full feature set including CMY color mixing and 1:2 zoom
- Crisp optics with flat field
- Very compact and low weight design

#### Technical Specification:

- **Physical**
  - Weight: 17kg (38lbs)
- **Gobos**
  - Gobo diameter: 26.8 mm +/- 0.2 mm (1.1 in. +/- 0.008 in.)
  - Maximum image diameter: 19.0 mm (0.75 in.)
  - Gobo thickness, maximum: 1.1mm borosilicate glass
- **Dynamic Effects**
  - Electronic dimming: 0 - 100%, four dimming curve options
  - Color mixing: CMY, independently variable 0-100%
  - Color wheel: 9 color filters plus open
  - Beam effects: Rotating three-facet prism
  - Rotating gobo wheel: 7 gobos plus open, wheel rotation, gobo rotation, indexing and shake
  - Static gobo wheel: 9 gobos plus open, wheel indexing, rotation and shake
  - Iris: 0-100%
  - Pan: 540°, coarse & fine control and speed
  - Tilt: 260°, coarse & fine control and speed

### Robe T1 Profile

T1 Profile is one and only fixture users need for theatre, television, touring, and now with the option to be connected to the Robe innovative RoboSpot system. This product is specifically designed to fulfill the challenging requirements of these diverse applications within one comprehensive fixture.

#### Main Features include:

- Factory calibrated whites and colours via the new Robe Colour Calibration system, automatic or on-call self-re-calibration of the LED engine without the use of any external tool (Patent pending)
- Framing shutters : Patented framing shutters module with 4 individually position



- able blades plus rotation of the complete frame system + - 60°
- Rotating gobo wheel: 7 rotating, indexable and replaceable breakup and aerial gobos + open, all gobos specially selected for theatrical and TV productions.
- Frost: very light 0,5° for instant softening of the projected gobo or framing shutters and medium 10° for even wash, both selected specifically for theatre and TV use
- Electronic strobe effect with variable speed up to 20 Hz
- Extremely quiet operation suitable for all types of production in Theatre and TV

#### Technical Specifications:

- **Source**
  - Light source type: MSL 550 W Multi-Spectral LED engine
  - LED life expectancy: min. 30.000 hours
  - CRI 90+
  - Control: Automatic and remote on/off
  - Light source warranty: 3 years or 20.000 hours
- **Optical System**
  - Robe's proprietary optical design
  - High - efficiency zoom optical system, ratio 7:1
  - Zoom range: 7° - 49°, covers favoured field angles of most Theatre and TV lights
  - Fixture total lumen output: up to 10.075 lm
  - Height: 726 mm (28.6") - head in horizontal position
  - Width: 400 mm (15.7")
  - Depth: 258 mm (10.2") - head in horizontal position
  - Weight: 24.3 kg (54 lbs)

### PR Lighting AQUA 350 BWS

AQUA 350 BWS is waterproof IP65 moving head, which integrates three features (Beam, Wash, Spot) in a single unit, it adopted PR patented technology, combines advanced 350W lamp with superb optical system, it is your best choice for outdoor activities.

#### Main features:

- Fixed Gobo Wheel: 11 gobos and anima-

- tion effect plus open
- Bi-directionally rotatable, and shakable effect at variable speeds
- 1 Rotating Gobo Wheel: 12 interchangeable gobos plus open
- Bi-directionally rotatable, and shakable at variable speeds
- International standard DMX512 signal , 3 pins and 5 pins interfaces
- 21 channels in short mode, 29 channels in standard mode
- Adjustable mode
- Adjustable Pan & Tilt speed
- Fixture and lamp hours display
- Modular construction for easy maintenance

#### Technical Specifications:

- Input Voltages: 1 00-240V AC, 50/60Hz
- Power Consumption: 550W@220V
- Light Source: USHIO NSL -350A(350W), (6800K, 1 ,500 hrs)
- Strobe: Single blade, 0.3-20 F.P.S
- Dimmer: 0-100% linearly dimming
- Colors: CYM linear color mixing system with macros
- 1 Color wheel: 12 dichroic color filters+CTO plus open
- Gobos:
  - 1 Fixed gobo wheel: 11 gobos and animation effect plus open Bi-directionally rotatable, and shakable effect at variable speeds
  - 1 Rotating gobo wheel: 12 interchangeable gobos plus open Bi-directionally rotatable, and shakable at variable speeds
- Prism
  - Three prisms(standard: 2x6-facet circular prisms and one linear prism)+frost+open, bi-directional rotation with variable speeds
- Light Angle
  - Beam mode: 0° -2.5°
  - Spot mode: 2.5°-42°
  - Wash mode: 5°-50°
- Weight: Net weight: 27Kg

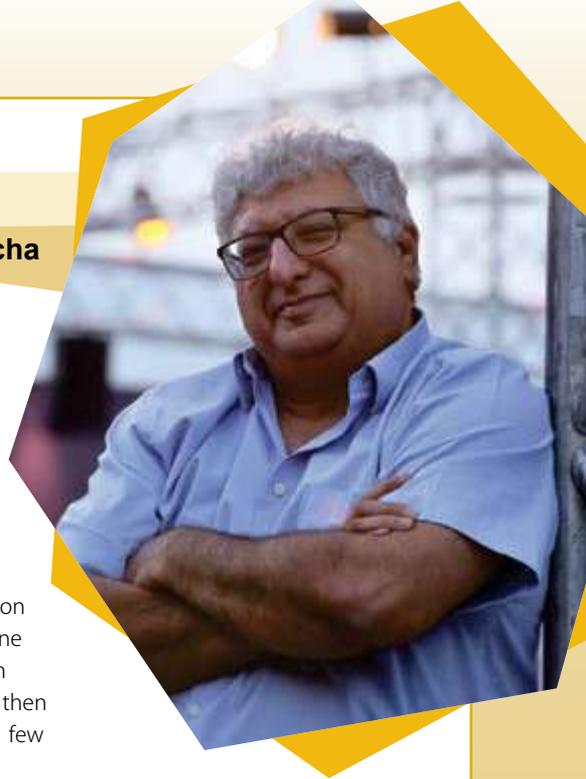


- *The Product Focus section is purely for information purpose and is only intended as a guide.*

# The Bright Spark

## LIGHTING - 'SCRATCH SCRATCH'

Viraf Pocha



Light! It's everywhere. Sometimes it's not. But unless you are trapped in a cave like those Thailand Kids - It somehow always creeps in. Only when the sun goes down and you switch off the electricity - do you realise just how many things emit light and how many 'dead' objects reflect it.

The human eye is conditioned to Bright Light. No that's not a dig at my LED screen brothers (or is it?). I talking of the sun, and all of human kinds efforts to replicate it in populous areas when the sun disappears. Insects and animals can detect much lower intensities of light than we can. So even if we can't see light but they can - so Light is present, even if humans can't see it.

Got It? Now comes the tough part. Describe it. Try!

Yeah - It's easy to describe what it does, but difficult to define what it is.

Scientists describe light as 'electromagnetic radiation'.

Huh? There is electricity and magnets in the sun?

Too heavy for the likes of me. For me, Light is energy. Lighting is energising.

Try doing something in the dark (except dancing wildly). Then do it in the Light. isn't it more fun?

Then take half the light away. Now the magic begins. Shadows, half light, dappled light, dim light - so many many options. The more you arrange light the more you can see. The more you can do. Again - try dancing wildly in the sun and then try again in the shade.

Where could you last longer? Self awareness begins.

Let's go back to the concept of Light as energy. Energy could be two things. The Power to create a driving force for making things happen. Electricity, Steam and so on. I'm not talking about that here. I'm talking about the energy within you. That force within you that makes you get up and do stuff. In that context a huge part of your energy is curiosity. If it's not - then buddy - you live a mundane boring life.

The way we are built, our curiosity is triggered by what we see. Something within us gets ignited to seek more. With affection to our brothers whose eyesight is impaired. They see through their sense of touch, sound and smell. God Bless them - they can feel the light even if they can't see it.

So may I venture to claim that Light is energy. This is not a medical journal or a scientific to me - so forgive me if I can't support my theory with research. This is based on trust and your willingness to journey with me. Our Stage Business is ultimately

Within that crucible - Lighting plays a crucial role. Like mini Gods (with Ego's to match) we lighting designers play with all the tools our engineering friends have created for us to tease out the maximum impact of the activity on stage. Ranging from using just one spotlight to filling a stadium with thousands of light sources. Even then if we fall short, we have another few thousand fans willing to pull out their cell phones torches and help.

That is power (pun intended) and with power comes responsibility. Both to make sure all the connectors are safe so there are no accidents, and just as importantly to power the message we share with our audiences are positive, honest and cathartic in the truest sense.

Behind that simple idea is a lot of work. On one level it is easy to replicate what you surfed on Youtube. But I urge you to look further.

Yes, there a million reasons why we may take short cuts. But here's what I have learnt. Everybody takes short cuts, so the road gets crowded and you will get stepped on or tripped over.

Approach your work with honesty and integrity. Open your mind and let the ideas flow. It's hard to get your way initially. But persist. Chances are people will just get fed up with you and let you do things your way in time. That's your opportunity to step up and show off your ideas, your creativity.

If it is honest - You will find a champion. You will find someone or someplace where your ideas will resonate. There is so much knowledge out there. So many techniques to master.

Event Technology must be the best place for a technical engineer to work in. And understandably it attracts the best brains, the most fun brains. The Stage attracts the most creative people to display their skills.

Stage Lighting is one of the widest of bridges between Technology and Art. Chances are - if you reading this article - you have experienced it. I urge the timid to venture forth. Remember I said - Light was energy - you will find it.

As you labour away choosing sources, choosing textures and tints

to best highlight your subjects. Fading in and dimming out set pieces as the story meanders forward. Its hard work. But our engineer brothers have done their bit to make all the tedious work as easy as possible.

Whatever your area of work. Artistic or commercial, I urge you to make it better with lighting. Dramatic when necessary. Easy on the eye, highlighting the key elements of a presentation or a play.

Somebody told me the other day. 'Life will be no fun without shadows'. I could not agree more.

With all the trees being cut down around us - we need shade more than ever. Use it to inspire your work on stage. Tell a story from all the angles and drown your audience with aspects and highlights.

There are so many bits of equipment reviewed and advertised. I hope you will go through them carefully and seek out which ones you feel can enhance your ideas. And then get to work.

That's the Scratch Scratch in the essay's title. The scratch scratch on your head as you dream stuff up. And the scratch scratch on paper or keyboard as you plot, erase, and plot to share your work with your team to create great energising shows. Get out there my fellow designers.....

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

**There are so many bits of equipment reviewed and advertised. I hope you will go through them carefully and seek out which ones you feel can enhance your ideas. And then get to work. That's the Scratch Scratch in the essay's title.**

one of fakery and illusion. Unlike a crime syndicate - we entice people in making that very clear to them, charging them a (hefty?) fee and hopefully sending them home happy and fulfilled. My fond hope is that we also got them to think new ideas and seek more knowledge.

That is what I love about our business. All of us make careers out of creating something on a small stage that captures life's most honest moments using every form of art and imagery mankind has dreamt of.

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# LBT Lights up RAAS CLUB, Pattaya



**P**attaya, a major tourist hotspot, situated on Thailand's Eastern Gulf coast, recently welcomed a new and modern destination for partygoers – **The Raas Club**.

The innovative and spectacular nightclub that is quickly turning into a favorite among tourists and residents alike is a perfect entertainment venue with an amalgamation of amazing music, awesome food, refreshing beverages and a mood-rejuvenating ambience. A DJ booth and the inclusion of a dance floor make it

different from nearby bars, pubs and taverns.

However, no clubbing experience is ever complete without a perfect blend of lighting to go with the music. The owners of Raas Club - **Santosh Sharma, Trivendra Singh, and Mr. Surendra**, then contacted **Mr. Eshdeep Singh Bhasin** and decided to bring on board **LBT Electronics Pvt. Ltd.**, one of the most prominent suppliers and traders of a wide range of premium quality LED Lights, and Moving Heads in India, to elevate the ambience of the venue.

Raas Club comprises of three different segments that includes the

Mezzanine Area, VIP Area and the VVIP Area and the clients required the venue to be lit up with a Futuristic Party theme.

In order to deliver a fresh futuristic ambience with the lighting while also keeping the party culture of Pattaya in mind, LBT's technical team created a plan, which involved installation of a wide range of lighting products in all the areas of the Club.

The Mezzanine Area is fitted with 16 LBT Red Laser and Thunder Strobe RGB and 8 Laser 3w RGB, while the VIP area is installed with 2 LBT Laser 5w & 1 LBT Laser 10w in the VVIP area.





“Working on this project was a great experience for us. However, we have faced a few issues but the major problem was language. Due to this, it was quite tough for all of us to communicate and get our work done. Another difficulty was

the availability of labor as getting labor on short notice is not easy. But, in the end the clients are happy with the fabulous outcome,” says **Eshdeep Bhasin**, Director, **LBT Electronics Pvt. Ltd.**

The thrilled owners of the club said, “After the installation, Raas

is enjoying great success with increasing number of visitors day by day. Team LBT gave us great structure and high-end technology like lasers. As the owner of Raas, I think we have chosen the best in the game.”

### List of Equipment Used:

#### LIGHT

LBT RED LASER - 16 Pcs

LBT THUNDER STROBE RGB - 16 pcs

LBT LASER 3w RGB - 8 pcs

VIP Area LBT LASER 5w - 2 pcs

LBT LASER 10w - 1 pc

#### ACCESSORIES

6 WAY SPLITTER - 2 pcs



## PIONEER DJ'S NEW GOLD-COLORED HDJ-X5BT-N HEADPHONES

Pioneer DJ has announced a new gold colourway for its **HDJ-X5BT** headphones. With Bluetooth wireless technology and a wired connection, these over-ear cans are ideal for DJing in the club and monitoring tracks on the move, and are now available in four colors: HDJ-X5BT-K (metallic black), HDJ-X5BT-R (metallic red), HDJ-X5BT-W (gloss white) and the new HDJ-X5BT-N (gold).

Now, more than ever, DJs need equipment that's flexible and helps them to practice, prepare and perform anytime, anywhere. Thanks to their Bluetooth connectivity the HDJ-X5BT headphones make it easy to monitor music in any situation, whether users are at home or on the move. And when users connect the included cable users can use them for DJing in the club. Whether they go wireless or not, these headphones offer outstanding audio quality, durability, and functionality.

### Key Features

#### Wireless technology for monitoring music anywhere you go

With easy set-up, the HDJ-X5BT headphones with their Bluetooth device - then start monitoring tracks. A three-hour charge gives you up to approximately 20 hours of playback. Due to the built-in microphone, users can talk hands-free on calls when the headphones are connected to their phone.

#### Well-balanced, dynamic sound

Hear every detail in tracks whether mixing in the booth or monitoring music at home. High-resolution, well-balanced tuning and bass reflex chambers in the housings allow the airflow to deliver an excellent bass response and sound insulation. The high-quality Qualcomm aptX audio codec is supported as well as AAC and SBC for high-quality sound, even when listening wirelessly.

#### Lasting durability

The HDJ-X series headphones are rigorously tested and each model has cleared the US Military Standard MIL-STD-810G Shock test as well as our own demanding stress testing to ensure they can handle severe conditions and heavy use.

#### Flexible functionality for comfortable DJing

When users want to immerse yourself in a mix, connect the included 1.2m coiled cable to automatically disable Bluetooth and all other buttons. The HDJ-X5BT headphones are comfortable to use no matter how you wear them, due to the housing design, swivel mechanism and



flexible headband inherited from the predecessors in the HDJ-X series.

[www.palmtechnology.in](http://www.palmtechnology.in)

## ROLAND'S NEW DJ-707M DJ CONTROLLER BALANCES FUNCTIONALITY AND PORTABILITY FOR MOBILE DJs

Roland has announced the launch of **DJ-707M DJ Controller** - a four-channel, four-deck Serato DJ Pro controller engineered for the perfect balance of functionality and portability. DJs searching for more than song mixing now have tools to manage complex event audio requirements, all-in-one with the powerful benefits of a portable live sound audio console, loudspeaker

management system, and fully-fledged performance DJ controller.

Designed in consultation with leading event DJs, the DJ-707M is built to efficiently manage the wideranging needs of mobile DJs. The compact controller packs more specifications than larger, bulky controllers and the reinforced internal and external metal parts ensure it can withstand life on the road. Plus, its compact size allows it to sit between turntables and DJ media

players, and it is DVS Upgrade ready for component DJ set-ups.

DJ-707M's built-in 24-bit/48 kHz audio interface and high-end Roland D/A conversion for Master, Booth, and Zone outputs - loudspeaker management that includes separate 4-Band output EQ, multiband compressor and limiter on each - ensure working DJs deliver loud, clean sound. Built-in automatic feedback suppression listens for and anticipates feedback, adjusting speaker output automatically to prevent disruptions. Each assignable output's separate EQ, multiband compressor, and limiter output settings can also be saved and recalled with 10 Scene Presets.

The DJ-707M features seven inputs, including front mounted auxiliary inputs to easily connect instruments from guest musicians or two additional microphones. Built with the DNA of a professional audio console, the DJ-707M features two studio-quality XLR microphone inputs. Each channel also has its own gain, low-cut switch, and noise gate, plus effects from reverbs and

delays to key-based auto-pitching and auto-ducking. Dual USB inputs allow up to two instances of Serato to be run on separate computers, creating seamless transitions between DJs or backup rigs. Its USB input can also be used to connect an iOS device for music playback.

Dedicated Serato DJ Pro controls allow for creation and triggering of hot cues, loops, effects, drum patterns, and samples, plus switching between four Serato decks. Roland's hardware effects can be assigned individually to the dedicated hardware Filter/FX knob to finesse blends or accentuate scratches. DJ-707M's standalone mixer allows computer-free performance using CDJs, turntables, mics, and more.

Driven by the sound of Roland's TR-909 and TR-808 drum machines, the DJ-707M also contains launchable preset rhythms for adding punch to classic tracks, crafting transitions, or creating accompaniment for instrumentalists. Other on-board OSC sound effects include sweepers and synth stabs.



## DEV ELECTRONICS ENTHRALLS WESTERN INDIA DJS WITH TWO EXCITING EVENTS

*Held in Partnership with Paras Pro Audio and Prem Sound Equipment*

**Dev Electronics** – the official distribution partners for Pioneer DJ in western India – teamed with their regional partners **Paras Pro Audio** and **Prem Sound Equipment** to enthrall the DJ community in western India, with showcase events in Pune and Raipur respectively, that spotlighted Pioneer DJ's most acclaimed products and technologies.

### PUNE

Held in partnership with Paras Pro Audio, the event in Pune was

across Pune, Mumbai and Nashik, showcased their talents using industry standard gear from Pioneer DJ. The final round, which was conducted on day 2, was adjudged by superstar DJs – **Tuhin Mehta, Skip, and Mash**.

During the competition, each DJ is challenged to impress the judges by rocking the crowd with a set incorporating any genre of electronic music. Points were awarded based on Originality, Skill, Track Selection and Crowd Reaction; and in the end **DJ Abhi (Abhinay Dole)** of Nashik was crowned as the winner of the

in depth knowledge into the workings, features and controls of Rekordbox softwares using Pioneer DJ's CDJ 2000 nexus2, Pioneer DJ Controllers and Pioneer DJ Toriaz SP16 Samplers and sequencers. This was followed by a captivating session on the intricacies of the Pioneer DJ CDJ2000NSX2 & DJM900NSX2, which was conducted by Tuhin Mehta and DJ Skip. The masterclass acted as the perfect insight for finalists selected from the previous days eliminations, to understand the full capacity of the Pioneer NXS2 system,

and it was great to see how enthusiastic all these young and aspiring DJs actually are. They're definitely talented; and I believe the event has provided a wonderful platform for them to explore DJ'ing in a more qualitative and fruitful manner. Kudos to the organizing team for putting this event together!"

### RAIPUR

The event in Raipur, which was conducted in partnership with Prem Sound Equipment, hosted the same '10 minutes to Fame' DJ Competition, which witnessed the elimination rounds being held on 22nd and 23rd August at the popular Mocha Lounge, with the final round being hosted at the popular Agrsen Dham on 31st August. While the schedule in Raipur did not sport a Masterclass session, the experience that the audience had, was ever-insightful and entertaining nonetheless, with DJs from across the region flocking to the event to impress the judges - **DJ Abhishek** (Team Pioneer) and **DJ Kanwalat** the eliminations, while veterans DJ Akshay and DJ Lokesh took on jury duties for the final round. The finals saw **Dj Raazid** (Razid Sheikh) of Nagpur being declared as the winner as he took home a brand new Pioneer DDJ Wego 4, while DJ Ravinesh (Ravinesh Thakur) of Rajnandgaon took home a Pioneer DDJ Wego 3 as the runner-up.

DJ Lokesh shares his views saying, "The intention of this event was to encourage young talent to come out and showcase what they have, and I must say, that's what these young DJs did. Not only are these guys talented, but they also have the zeal to learn – many of them came up to us at the end of the event with questions about technologies and techniques, which was so heartening for us. It's great to see the potential of a bright future for DJ'ing in India, and I'd like to congratulate the organizing team for taking such an initiative."

**Dilip Devjani** – Director of Dev Electronics, expressed his views

*(Continued on page 91)*



hosted at the elite nightclub – MiAmi at the JW Marriott hotel on 19th and 20th August. The elimination round of the '10 minutes to Fame' DJ competition was conducted on day 1, and this was judged by reputed veterans **DJ Shiva, DJ Sanj, DJ Varun, DJ Monty, and DJ Abhishek** (from team Pioneer), as participants from

competition and **DJ Vaibhav** (Vaibhav Suradkar) as the runner-up, with the judges felicitating DJ Abhi with a brand new Pioneer DDJ Wego 4, while DJ Vaibhav received a brand new Pioneer DDJ Wego 3.

Prior to the finals, however, Day 2 witnessed the audience being treated to a Masterclass session, where DJ Skip and DJ Mash delivered

**DJs from western India flocked to Pune and Raipur to support the initiative that spotlighted Pioneer DJ products and technologies.**

which they strived to incorporate within their sets during the final round face-off. As the event came to a successful close, all participants were presented certificates signed by the three master DJs as a token of participation.

Tuhin Mehta shares "It was an absolute pleasure to be a part of this initiative, which aimed to not just enhance Pioneer DJ's business presence in the region, but also to give back to the DJ fraternity at large and help aspiring DJs grow qualitatively. The turnout was great – the talent we observed was fabulous – and all in all I think we had a great event."

DJ Mash echoes the sentiment saying, "This was a fantastic initiative,

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AM Integrated and Crescendo AV recently outfitted The Piano Man Jazz Club with a complete HARMAN Professional Solutions sound...[read more](#)

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Goa based LumaSonic recently purchased a new Adamson sound reinforcement system, making them the latest company to join the Adamson network. In total the company added 16 S10...[read more](#)

**L-Acoustics Open Day in India**

Hi-Tech Audio Systems Pvt. Ltd., known as one of the top distributor & service provider of Professional Audio Video & Lighting System has recently organized "L-Acoustics Open Day"...[read more](#)

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## PIONEER DJ DDJ-1000SRT SERATO DJ PRO CONTROLLER LAUNCHED

Pioneer DJ has launched **DDJ-1000SRT**, the Serato DJ Pro version of the hugely popular DDJ-1000 DJ controller for Rekordbox DJ.

The 4-channel DDJ-1000SRT inherits the layout of the DDJ-1000, which feels familiar to a CDJ+DJM club-standard set-up. All the same professional features are there too, including low-latency, full-size jog wheels from the Pro-DJ multi player, CDJ-2000NXS2 and the slick MAGVEL FADER for tight scratching.

Due to color On Jog Display, which gives users important track information in the center of each jog wheel. Build excitement on the dancefloor and create huge drops with four Sound Color FX and 14 Beat FX. And with 16 Multicolored Performance Pads (eight per deck) at users fingertips, users can trigger various features including Hot Cues, Slicer and Pitch Play to put their own spin on each track and keep their audience in raptures.

If users want to use Serato DJ Pro to play at events and parties and need a controller that's portable but packed with features, you've found your perfect match in the DDJ-1000SRT. Its multiple inputs

and outputs enable users to connect external equipment and assemble different setups, so they'll be prepared for anything.

### Special limited offer: Free Serato DJ Suite

We're putting a free Serato DJ Suite voucher worth \$299 in the boxes of the first 5,000 DDJ-1000SRT controllers that we ship worldwide. This all-in-one suite includes a Serato DJ Pro license and unlocks all the Serato Expansion Packs including Serato Play, Serato DVS, Serato Video, Serato Flip, and Serato Pitch 'n Time DJ.

### Key Features

- **FULL-SIZE JOG WHEELS AND MAGVEL FADER:** Mix and scratch your tracks with freedom. The jog wheels taken from the CDJ-2000NXS2 look and feel familiar, and users can customize the way they react to users touch with Jog Adjust. The MAGVEL FADER is highly durable for more than 10 million movements\*1 and responds to every deft movement users make, so intricate performances feel effortless.



- **PORTABLE DJ CONTROLLER WITH CLUB-STYLE LAYOUT:** The DDJ-1000SRT is the ideal piece to take on the road. Users'll feel at home using all its feature controls, which are arranged in the same layout as those on our club-standard NXS2 set-up.
- **COLOR ON JOG DISPLAY:** A full-color, high-definition LCD screen in the center of each jog wheel gives users all the information you need such as playback time, BPM, and playback position. And the color scheme is the same as Serato DJ Pro's, creating a more intuitive experience.
- **PROFESSIONAL FX:** Show your flair and spice up users sets with the four popular Sound Color FX from our DJM series mixers. Users've got 14 Beat FX to get creative with too, and users can instantly reference BPM and the name of the selected FX due to the dedicated Beat FX display.
- **STAND-ALONE DJ MIXER WITH MULTIPLE INPUTS AND OUTPUTS:** Switch between DJs seamlessly thanks to the two USB ports for PC/Mac and connect users external equipment to the four inputs. Plug in DJ players and analog turntables, plus two Mics.

## DEV ELECTRONICS ENTHRALLS DJS OF WESTERN INDIA...

(Continued from page 89)

on the success of the two events, as he quoted, "As the official distribution partners of Pioneer DJ for western India, our goal has always been to connect the with ever growing DJ community in the region. Not only have we aimed to offer the latest frontiers of DJ technology from Pioneer DJ, but we've also done our best to equip them with key knowledge and information to further leverage their craft. The '10 minutes to Fame' DJ competition that we recently culminated at Pune and Raipur respectively, presented amateur and aspiring DJs with a platform to not just showcase their talent but also gain regional repute and be felicitated by top DJs with exciting prizes. Alongside, we also met our goal of introducing the audience,



especially amateur/bedroom and beginner DJs, to Pioneer DJ's new line of rekordbox controllers and the top of the line NXS2 system; and educating them on the advantages of the respective systems. Both

events received an amazing turn-out, and we appreciate the hard work and effort invested by our regional partners Paras Pro Audio and Prem Sound Equipment in putting together two fantastic events along with

our team. We also thank all the esteemed judges for gracing our event with their presences; and send out our congratulations to all participants, especially the winners, for showcasing their talent."

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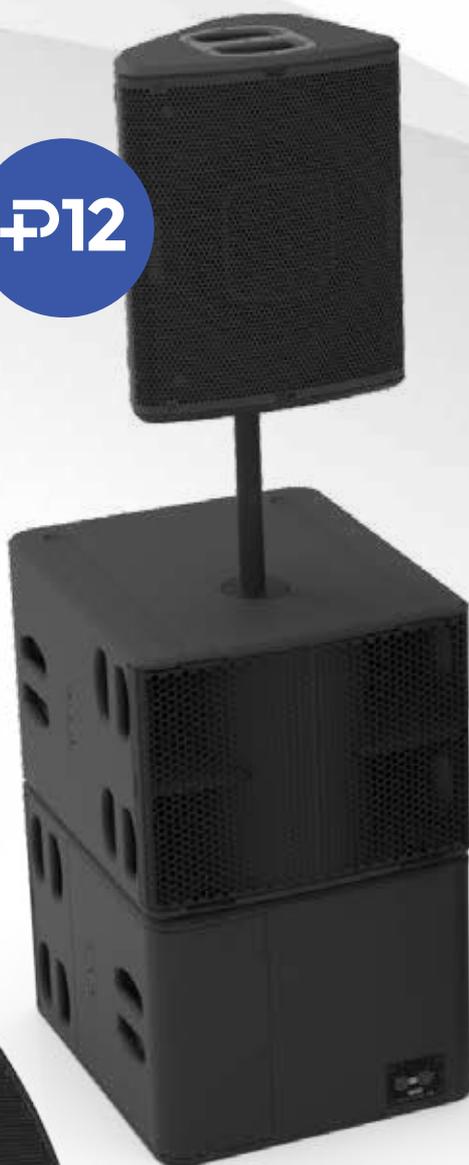
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