

PALMTM technology

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

EXPO PROMOTION

SNL Pro deploys L-Acoustics, DiGiCo and AVID for OnePlus Music Festival



Trending Tech

Top DJs list some of their
favourite DJ gear

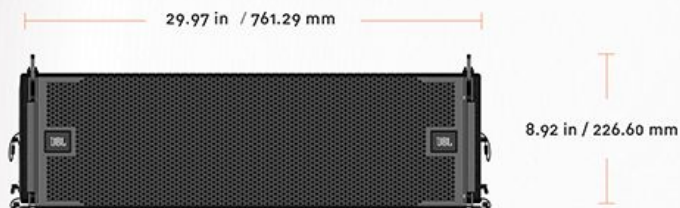
Product Focus:

DJ Controllers, DJ Headphones, DJ Turntables

Distributor Profile – DEV Electronics

Theme: BIG STAGE+ DJ NOVEMBER - DECEMBER 2019

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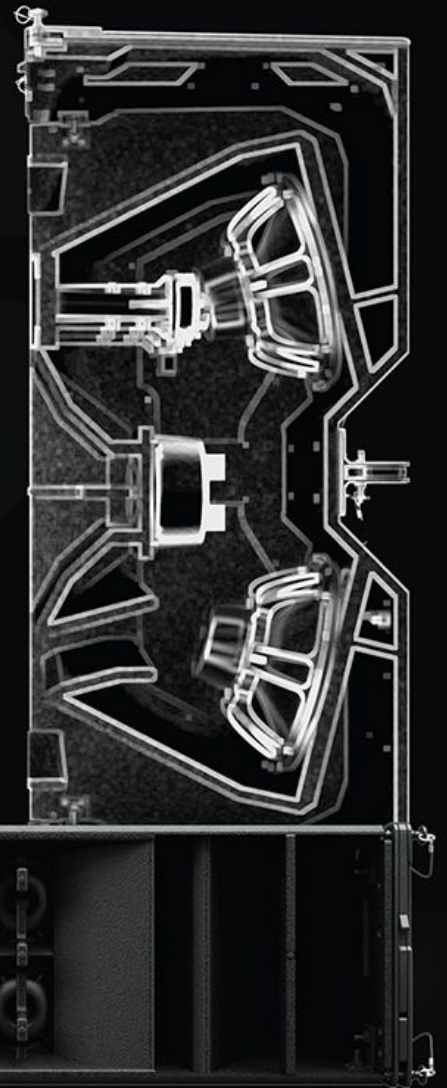
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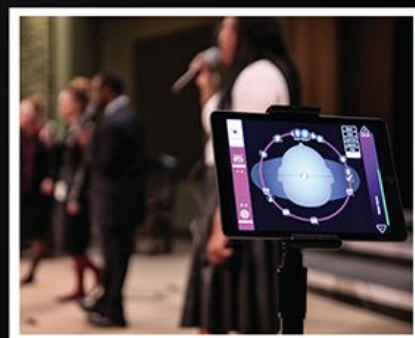
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BIG Stage Extravaganza; Rental Market on major upswing

The international 'Big Stage' acts hit the tour circuits of Mumbai, Bengaluru, Delhi, Goa and Pune from November to February. The live stage is roaring with India's entertainment season at its peak; India is a great example of a musical market that is evolving in line with demand from local audiences. Music aficionados are spoilt for choice with so many acts on offer.

DJ + Big Stage (theme of this issue) rocks with **Trending Tech** and focus on DJ Consoles, Headphones and Platters. **Meghna Porwal**, the newest member of the **PALM technology** edit team finds out the gear top DJs use on pg.40.

This year has been rather redeeming for the big stage. Heartening to see that live music is not dependent on DJ acts. India can boast of the 'real' live acts too. The recently concluded **U2: The Joshua Tree Tour 2019** and the **OnePlus Music Festival** was a good measure of the quality of music in demand as well as the quality of technology being used at large scale live events in India. Both the shows demonstrated how latest technologies can go a long way in delivering the wow factor.

The action from 2019 is promising enough to warrant major purchase of the best and latest in line array, sound-reinforcement, lighting, trussing. The scale of live events in India today, demands a huge investment from rental companies while also offering them a fantastic opportunity. As big stage live events grow, all eyes are on those rental companies who can deliver.

The rental market is on a major upswing and poised for further growth, on the back of entertainment events and other stage activity, which includes corporate, devotional and government events. Grow it will in 2020, and sharply at 40% is what **PT** predicts. The persistent drive to deliver something bigger, better, more spectacular and unparalleled has resulted in event companies pushing the envelope.

The OnePlus Music Festival witnessed large-scale production with many standout elements showcased. There was cutting-edge sound deployment of top-notch brands like **L-Acoustics**, **DiGiCo** and **AVID**, creative staging and rigging, life size mannequins and magnificent pyrotechnics, all of which was taken care of **Manish Mavani** and his team at **SNL Pro** (full story on pg 28). The Festival also featured a 7000 sq.ft. LED, deployed by **Ulhas Sahasrabudde's SSL Media**.

Talking about LEDs at live events, the **U2 concert** in Mumbai boasted of a 200 ft. x 45 ft. with 8K resolution LED screen, considered to be the largest ever for a live concert in India, which the U2 production team got along with them from their original suppliers. Full story in Jan-Feb 2020 issue.



Guideline for the future from Manish Mavani, Head Honcho of SNL Pro; with Anil Chopra, Content Chief and Smita Rai, Content Anchor

The big stage season accounts for a big chunk of ticketed live events with one of India's biggest electronic music extravaganzas **Sunburn** leading the entourage with an array of genres from Drum n Bass to Trap music, House, Electronic, Trance, Hardstyle and Techno! December kick started the **Sunburn Arena** tour bringing to India legendary British-born Norwegian artist and record producer **Alan Walker** as part of the first leg of his much-awaited **Aviation Tour** in South Asia. Now with **Sunburn** back to its birthplace – GOA, the music festival gears up for a massive homecoming celebration in the last week of December, featuring a line-up of over 100 DJs across the four Big Stages. The Main Stage will see **DJ Martin Garrix**, **The Chainsmokers**, along with acts like Australian record producer, music programmer and Grammy award winner **DJ FLUME**, young Belgian prodigy **Lost Frequencies** and many more. **SOLARIS**, a new underground music venture featuring underground international and home-grown house and techno acts will feature on two dedicated stages.

New and innovative solutions for BIG sound are in abundance and offered by both big product brands and local rental companies. The gamut of sound reinforcement includes line arrays and all line arrays sell, of course to respective markets, for relevant shows, at affordable costs.

According to **Warren Dsouza** of India's premiere rental company Sound.com, the industry will have access to better gear at lower prices in the coming year. He hints at weaker margins for rental companies though.

Manish Mavani also agrees that the market is poised for further growth but rues that infrastructure and government policies are a hindrance to growth. "Market is growing, but we need more venues and better infrastructure which

is severely lacking. Also, certain State and Central government policies to do with obtaining permissions for events need to change," he says.

Having steadily grown in size, **DEV Electronics** comprises a team of dedicated, hardworking and creative people ensuring that the company continues to be one of the largest single-window product-source for rental companies and DJs alike. Story on pg.44.

I hope you are receiving the bi-weekly PT digital newsletter and are enjoying getting all latest info right into your inbox. You can click on the link below for access to the newsletter archive: http://palmtechnology.in/Newsletter_Archive.aspx

The January 2020 issue is the **FOH special issue** and will as always list the **TOP 50 products** of 2019. We compile the product for tech innovation and business sense each year so be sure to send in details of your best audio and lighting tech launched in 2019.

We plan to make 2020 even better and reader's feedback is awaited and appreciated, till then wish you a Merry Christmas and a Happy New Year!

Smita Rai
Smita Rai – Content Anchor



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DBTECHNOLOGIES APPOINTS GIOVANNI BARBIERI AS GM

Giovanni Barbieri has been appointed as the new General Manager of dBTechnologies; Giovanni Barbieri joined the Italian pro Audio manufacturer in 2009 as the Export Sales Manager. He became the Business

Development manager in 2011 and since 2012 has served as their Sales and Marketing Director. In the 10 years that Barbieri has been a part of the RCF Group-owned manufacturer, revenue has tripled, as has the worldwide distribution of its products

with dBTechnologies solutions now reaching more than 160 countries.

The new appointment was announced by the CEO of dBTechnologies and RCF Group, Mr. Arturo Vicari: "The group is expanding, we have several interesting projects to carry out and it is natural to consolidate the organization of a company that in recent years has shown not only to create quality products, but also to be able to propose and distribute them to an increasing number of users." Vicari explains. "Over the years Giovanni Barbieri has demonstrated many qualities, first of all the ability to transmit to the market who we are and what we can do. This makes him the most suitable person to represent dBTechnologies, taking on the role of General Manager".

Barbieri reflected on how

dBTechnologies was a smaller company, both in terms of turnover and workforce, when he joined a decade ago. "Over the years I have had the opportunity to meet and grow together with people who represent excellence, both from a professional and personal point of view. And this is true for every single department of the company." He continues: "What we have achieved and will achieve is mainly thanks to the team we have built, which lays the ground for other challenges and further growth. For this reason I am honored with this new assignment and I would like to thank Mr. Vicari and the entire dBTechnologies team for the work they have done so far and for the work we are going to do from now on."



Giovanni Barbieri and Arturo Vicari

STUDIOMASTER PROFESSIONAL'S CLASS D DSP-ENRICHED CLIO 154 ACTIVE LOUDSPEAKER

The Studiomaster Professional introduces **Clio 154** - a **high-performance 2-way bi-amplified 400W (RMS) active loudspeaker**. The loudspeaker integrates a custom-designed 15" mid-bass woofer and 1" high-frequency compression driver. The specially-designed HF flare weaved into the design not only ensures amazing clarity and detail but also an even dispersion with a wide coverage area and throw distance.

At the heart of the Clio 154 is a 400W (RMS) digital class D amplifier that is carefully-engineered for maximum efficiency and punch. The integration of the class D amplification also lets the loudspeaker harness the full benefits of Digital Signal Processing. Thanks to this, users can quickly change the loudspeaker's tone using easy DSP sound presets such as flat, speech, music, live, and club. The Clio 154 is further optimized to deliver a

frequency response between 40Hz-20kHz and a max SPL of 128dB.

One of the standout features of the Clio 154 loudspeaker is the built-in USB/SD card MP3 media player with playback control and Bluetooth for wireless streaming from compatible devices such as smartphones, tablets, and laptops. The powered loudspeaker sports multiple wired input options including a stereo RCA, XLR-Jack (line) and a switchable XLR-Jack (mic/line) with individual level control. There is also an XLR out for linking additional loudspeakers.

The integrated independent HF and LF soft clip limiter circuits ensure distortion-free sound and optimal speaker protection. The unique angled-shape of the Clio 154 makes the loudspeaker useful for both FOH

and floor monitoring applications. The speaker is housed in a durable and rugged plastic moulded enclosure with a wood grain finish



that delivers a classy look and optimal scratch-resistance. The integrated mounting socket on the bottom panel allows seamless installation on standard wall/pole mounts and speaker stands. The speaker's ergonomically-shaped

handles allow utmost ease in transportation.

Packed with features, the powered loudspeaker is ideal for a wide variety of **live, touring, installation, and other mobile applications**.

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Next Issue

January-February 2020

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JYOTI SOUND MAKES AN IMPACT WITH DYNATECH & JTS

Jyoti Sound based in Kinwat, Maharashtra, recently updated their inventory with a fine amalgam of world class products from market leader Dynatech, including state-of-the-art DLA-

212 line array system and HP-15A+ active speakers, all powered through multiple units of the dynamic and efficient V-Series power amplifiers. They also invested in the GM-5218 podium microphones from JTS.

This system is now the company's primary FOH line-up, and has been deployed at a number of events of every scale and nature.

Siddhant Nagrale of Jyoti Sound shares his comment on the purchase

saying, "I am very impressed with the DLA-212 line array. It delivers exceptional sound with great throw and clarity at a reasonable price. The HP-15A+ has brilliant tonal quality and excellent

performance output, which is exactly what we were looking for, while the V-Series amps are unbelievably powerful and clean. As for the JTS microphones, the GM-5218 have always lived up to every expectation, and delivered high quality performance for all the events that we have deployed them for. We'd like to thank Sonotone and Digtrons for all their help in assisting us to find the perfect solution!"



Jyoti Sound updates their inventory with DLA-212 Line Array, HP-15A+ Active Speakers and GM-5218 Podium Microphones

FOCUS VISION WELCOMES DIGICO SD10 TO ITS INVENTORY

In 2011 **Sachin Nasre** of Pune, Maharashtra founded Focus Vision for providing a complete range of audio-visuals & production services. Recently the company has upgraded its inventory by investing in DiGiCo

board with the DiGiCo SD10, Focus Vision is boosting their services.

Sachin Nasre, Focus Vision's Managing Director, explains why, for him, DiGiCo is the only choice. "DiGiCo has become an industry

part of Guru Randhawa and Darshan Rawal's 6 cities tour across India."

"The SD-series of DiGiCo are state-of-the-art consoles. Undoubtedly most mixing engineers of India are familiar with SD10 and its user-friendly features", explains **Rajan Gupta**, Managing Director of Hi-Tech Audio Systems. He continues, "You can find DiGiCo in all major music festivals' tech-ride across the country. Top mixing engineers prefer DiGiCo because they trust the brand and its worldwide reputation. Moreover the tech and after-sales support

the console's functionalities, the more confident they will become to handle any live show. We are also there to provide live tech support as per the client's requirement."

Nasre cites the SD10's features and functionality as major reasons behind the decision, including three banks of 12 motorized faders and one master fader, each with its own high-resolution LED bar graph meter, and the SD10's ability to recall or save presets on the channel strip and recall or save snapshots using the master screen or hard wired switches



Sachin Nasre and team with DiGiCo SD10



SD10, supplied by Hi-Tech Audio Systems, DiGiCo's distributor in India.

From the onset, the company has worked effectively with clients as partners in constructing successful events; from small boardroom meetings through to large-scale events. Focus Vision has continued to provide its partners with a precise level of technological achievement and client satisfaction; by going on-

standard and the most wanted console in India, both for one-off shows and touring productions. Almost every production we supply to demands DiGiCo," says Sachin. "The console offers ample headroom for the user and with the 32-bit card it's amazing as you can push the sound with ease. We are really happy with the decision to invest in SD10. The SD10 is currently

we provide is at par with DiGiCo standards."

Hi-Tech has provided the product introductory training to Focus Vision's team. "It is very important for us to schedule demo training for the clients immediately after the purchase of any DiGiCo console", says Hi-Tech's DiGiCo Application Engineer, **Vanshaj Sharma**. "The more they get comfortable with

on the console.

"This is a new beginning for Focus Vision and we are happy that we could be part of their new journey towards success. We are confident that the new DiGiCo SD10 will surely open new opportunities for Sachin and his name", **Nirdosh Aggarwal**, Director Sales of Hi-Tech Audio Systems concludes.



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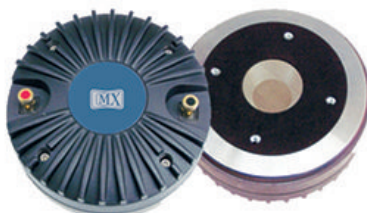
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6 D 1,5 CS



3,5 H1 CS



18 PF 4



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12 N 3 PL



10 N 2,5 PL



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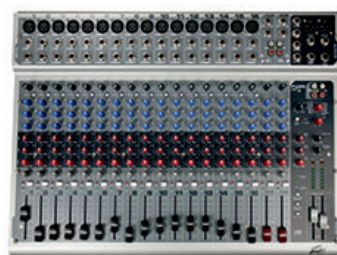
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MAX 158 230 EB



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SENNEN SPEAKERS RELIES ON POWERX TO DELIVER WORLD-CLASS AUDIO SOLUTIONS

Sennen Speakers, a loudspeaker manufacturer in Mumbai, has chosen PowerX's transducers for its products. This was distributed to Sennen Speakers by Dev Electronics.

With a keen focus on high-quality, Sennen Speakers choose transducers from reputed world-class brand PowerX, which forms the heart and soul of their technologically superior custom loudspeaker solutions. Sennen raves about the brand's superiority in terms of power, tonal quality, ruggedness, and overall sonic presence and performance, saying that their loyalty to PowerX transducers was affirmed ever since Sennen Speakers first integrated PowerX's high-performance 18LFA 1200 and 18LFA 1800 low-frequency drivers into a batch of custom subwoofer cabinets, and the aurally superior 12M400 drivers into a batch of custom-made line array modules. The sonic performance of the speakers was noticeably greater, and the power output was evidently higher. Additionally, Sennen also designed and built custom mid-top loudspeakers a few years ago using PowerX's formidable HDF755 high-frequency drivers for a client who continues to use the system to full capacity with no complaints whatsoever.

Designed to deliver thumping low-frequency fidelity, the powerful 18LFA1800 delivers a whopping 1800



Sennen Durado poses with the PowerX transducer

watts of power from a Ferrite Magnet Structure inclusive of a 6-inch voice coil and sports a frequency response of 28 Hz to 1.5 kHz, while the equally adept 18LFA1200 delivers an amazing 1200 watts of power from a Ferrite Magnet Structure inclusive of a 5-inch voice coil with a frequency response of 28 Hz to 1.5 kHz. The 12M400 forms the most popular option for

mid-range frequency reproduction, assuring over 400 watts of power with a frequency response of 40Hz-3kHz. Finally, the HDF755 forms the ideal high-frequency fidelity solution, with its 72.2mm voice coil assuring an astounding 100w power with a frequency response of 500Hz-18Hz.

Sennen Durado, Director of Sennen Speakers shares, "With PowerX transducers at the heart of our innovative Sennen Speakers, we're able to deliver loudspeaker solutions that will meet key criteria – be it performance, sound quality, reliability, and road-ruggedness. I've been using PowerX in a number of our custom-designed loudspeaker solutions, and I've noticed more and more clients switching over to PowerX purely for the quality and value that these products deliver. Users from across the country prefer working with Sennen Speakers because they know that our speaker solutions assure maximum performance value; and with exemplary support from PowerX and Dev Electronics – the official distributors of PowerX in India – we're able to treat our customers to the best experience for their investment – before, during, and years after the sale."

At the same time, Sennen reveals he is also a big fan of PowerX's line of power amplifiers, asserting that the brand's Q-Line and D-Line series of TDI class toroidal amplifiers along with its Pro Series of class

H amplifiers form the most ideal amplification source to be used with PowerX speakers and transducers, as the amplifiers help to derive the absolute best sonic performance and power output that the speakers are capable of delivering. Plus, their world-class circuitry ensures that the entire system remains stable even in situations of voltage fluctuations, which is a serious issue that's rampant in India's Tier 2 and Tier 3 cities.

Dev Electronics, the sole authorized distributor of PowerX products in India, affirms that the brand has seen a steady rise in users over the past few years. Dilip Devjani, Director of Dev Electronics, shares, "Over the years, PowerX has consolidated its presence as a leader in the professional transducer market. The brand has grown consistently, not just in terms of users, but also in terms of performance value, and the overall portfolio of high-quality products that it offers to every segment of the market. PowerX offers a complete and structured range of high-quality transducers and amplifiers, and ready-to-deploy speakers; and the brand has successfully maintained and improved its heritage of innovation and quality manufacturing. And with the support and love of amazing patrons like Sennen, I believe the brand will continue to grow and flourish as a market leader that not only meets its users' expectations but also surpasses them."

LAB.GRUPPEN INTRODUCES NEW PDX3000 AMPLIFIER

Lab Gruppen has debuted the PDX3000, an amplifier for live and installed sound applications that's stated to deliver 2 x 1,500 watts of Class D power joined by a DSP feature set for loudspeaker processing. It is ideal for a wide variety of applications ranging

from touring, live portable sound, restaurants and bars to houses of worship as well as other performance spaces.

The PDX3000 has a comprehensive DSP feature set for speaker processing and includes crossover, delay, an eight band

parametric EQ, limiter and a two band dynamic EQ. Monitoring and control is provided through USB connection and PDX Controller Software as well as an intuitive front panel user interface.

The rack-mount chassis is built to provide durability, with temperature-controlled fans and preset library also onboard for touring applications.

Sebastian

Witkowski, Brand Innovation Leader for Lab Gruppen, said: "It feels great bringing this amplifier to our customers. Power

at a good price point and an easy to use solution together with *Turbosound, Tannoy, and Midas*. A great product for entry level touring applications and a great opportunity for Lab Gruppen to grow with its customers!"

The amplifier is equipped with balanced XLR and TRS input connectors with optimized sensitivities and professional Speakon output connectors. Precise power management assures power output under all conditions whilst comprehensive circuit protection guards against short circuits, DC, and thermal overload. A front panel locking feature protects against accidental setting changes.





One World One Sound

AC-210

Two way Powered Line Array Speaker



AC-112

Two way Powered Line Array Speaker



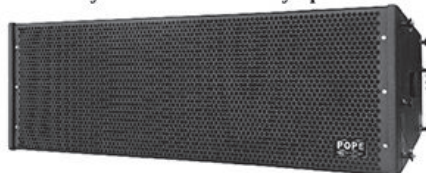
AC-12

Three way Powered Line Array Speaker



AC-212

Three way Powered Line Array Speaker



AC-28 & MP-18B3

Two way Line Array Speaker & Powered Sub-woofer



AC-218B

2*18" Powered Horn-Loaded Sub-woofer



XP-SERIES DSP



MAC-D SERIES POWER AMPLIFIER

MAC-7202D



MAC-8202D



MA-D SERIES POWER AMPLIFIER

MA-7200D



MA-8200D



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H V & COMPANY LAUNCHES N-LABS AUDIO TO PROVIDE QUALITY, COST-EFFECTIVE AUDIO PRODUCTS

Ensures great service and after sales support

The Pro audio industry has been seeing unprecedented growth over the last few decades. This has been possible due to various global brands shifting their focus to the Indian market, which in turn has also encouraged the emergence of new brands within India. One such brand is **N-LABS AUDIO** launched in mid-2019. Manufactured under the umbrella company H V & Company started in 2012, N-LABS AUDIO caters only to the Indian

market within budget and without compromising on quality. "Since its inception in 2012, H V & company has strengthened its roots deep in the industry by rapidly expanding its product repertoire to support the market and vendors. We launched N-Labs with the intention to provide high-quality audio products, which are not available and made in India. We believe in designing our own product technology customized to Indian standards.

R&D FOCUS

With a vision to educate and empower the users with everything related to Pro Audio, H V & Company aims to ensure the highest quality and control over their products. N-LABS AUDIO boasts of an R&D facility with qualified engineers, and designers.

"Designing Products in India helps us to test & research the products in Indian conditions and helps us create a good product suitable in everybody's budget, without compromising the quality of equipment with a strong aftersales support," commented **Hemal Bhatt**, Owner, H V & Company.

The company's product range includes amplifiers, speakers, wireless microphones, and line arrays. The product line offers high-quality solutions to satisfy professional sound reinforcement applications, ranging from installation to touring to portable. Experienced designers, manufacturing team, technically qualified personnel and after-sales team, represent the company.

Targeting the professional audio,



tour sound and concert system segment, the company has been constantly launching new products like the X series of Channel amplifiers. Bhatt added, "Our concept is simple: to design, build and service every product for the Indian market and provide products that are reliable and trustworthy. For this we offer a three year warranty, no questions asked. This approach is one of our key points."

H V & Company is also creating a network of dealers and distributors across India to market their brand and provide support to the pro audio industry.

Besides their own in-house brand, H V & Company is also the official distributor of PRV Audio Brazil for India and supply raw components, speakers, HF drivers and many more to users as well as manufacturing units.



N-LABS X2 and X7

BEHRINGER ANNOUNCES WING - A FUTURISTIC NEW MIXING CONSOLE

Behringer has announced Wing, a digital mixing console with a futuristic look that offers eight Midas Pro mic preamps and eight Midas pro outputs. The new **Behringer WING** digital mixer, with a large capacitive touchscreen, enables the user to add tags ("vocal", "guitar", etc.) to each channel and thereby instantly assign a channel to a DCA or mute group. The device also features 24 motorized 100mm faders, 11 color TFT screens to display parameters, a 48-ins/48-outs USB audio interface with HUI control and the option of another 64 I/O via Ethernet, supporting WAVES Soundgrid. There are also two SD cards for recording straight to disk.

The Wing includes an additional four-channel control section, a Premium FX rack that offers eight true-stereo processors and includes TC algorithms and Lexicon, Quantec and EMT emulations, and a standard FX rack that contains a further eight true stereo processors that take care of workhorse effects.

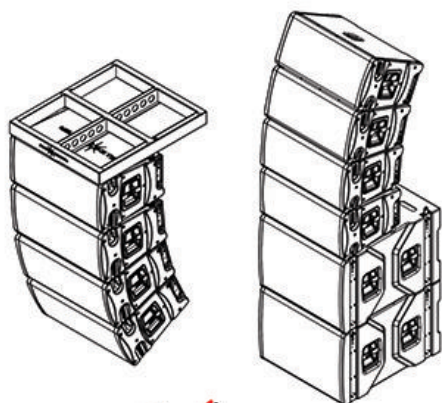
Outboard effects can be blended into the mix as well. There are five variable plug-in processing slots for all 40 stereo input channels, as well as an insert FX slot and 4-band parametric EQ

for all eight stereo aux channels. A further custom control section features more buttons and rotary encoders, and you get four main,

eight matrix and 16 aux stereo buses that feature dual inserts, 8-parametric EQs, stereo imager, full dynamics processing and more.



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ANSATA ENSURES STEADY GROWTH FOR D&B AUDIOTECHNIK IN INDIA

In his interview in the Jan-Feb 2019 issue of PT magazine, **Amnon Harman**, CEO of d&b audiotechnik GmbH (http://palmtechnology.in/11_Question_Amnon_Harman.aspx) clearly stated that India is an important market for d&b and that business growth in the territory had remained consistent. Without an iota of doubt, the credit for this consistent growth goes to d&b's exclusive authorized distributor, Bangalore based **Ansata Computer Systems Pvt Ltd.** Known in the Indian market for supplying some of the best pro audio technologies and brands, the company has today amassed a wealth of customers, allowing them to stay at the forefront of the Indian pro audio distribution segment. Here's looking at some rental companies who relied on Ansata for their recent d&b sound system sourcing.

AUDIO PLUS, BENGALURU:

Audio Plus is a Pro Audio and Lighting hire company that provides complete technical solutions for live concerts, theatre, corporate events, conferences, and more. Recently Audio Plus announced the addition of new d&b products to their inventory with **16 units of V-Series** and **8 units of B22 Subs**. Commenting on the addition, **Ravi Chandra** said, "We wanted to upgrade our PA system and at the same time did not want to compromise with quality. This was the reason to

choose the d&b V-Series. As we are looking to move towards doing large scale concerts, d&b V-Series and B22 Subs are the perfect match for the requirement."

Further adding about the suppliers, "Ansata is the most reliable supplier. Ever since we started our business, we have been dealing with Ansata and they have provided the highest quality products along with the best customer service. Quick to resolve any issues and deliveries are often received earlier than expected."

LED SOLUTIONS, DELHI:

With demands of providing an experience as per international standards, LED Solutions, who are in the business of renting audio, video, and lighting equipment, have been creating an array of special effects for stage shows like live music performances, product launches, etc. in open areas like public grounds and stadiums. To provide an experience that can be remembered, LED Solutions choose products from d&b audiotechnik and look for their purchase to Ansata. The company recently invested in **24 units of KSL** and **10 units of SL-GSUB**.

Sanjay Gupta of LED Solutions talks about the purchase saying, "The system comprises the latest in technology in Line Array systems available globally. We have been associated with Ansata for the past ten years and we have had the best experience in regards to sales, the service provided, their after-sales service, and training. We would like



LED Solutions, Delhi

to thank **Neil Lean** of d&b India for giving our team hands-on training with the proper guidance of the KSL System and its abilities."

KRUT DESIGN

As part of the renovation and up-

gradation (ongoing) of the Sound and Light Show at the Golconda Fort in Hyderabad and to replace the old audio system, Krut Design recently upgraded to the d&b audiotechnik **E-Series (E12-8)**.

"The show has been running

Audio Plus, Bengaluru



Krut Design

GET²⁰²⁰show

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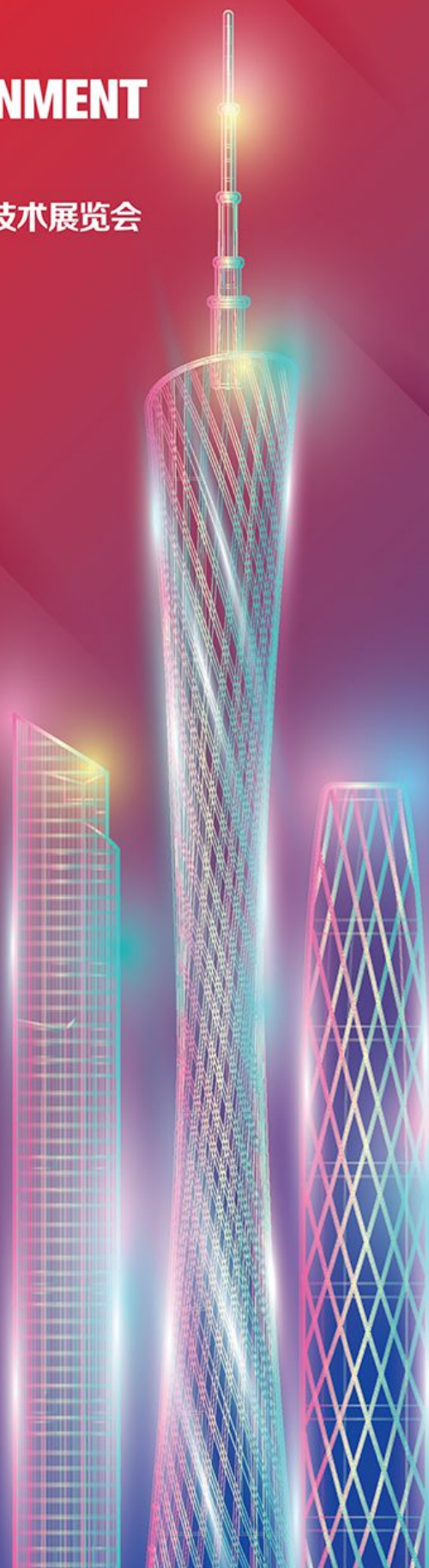
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over the past 25 years and is a crowd favorite in Hyderabad. The show required a high-performance audio system with the smallest footprints along with total weather protection, so the purchase was for the up-gradation," said **Subhash Dendukari** of Krut Design.

"We chose d&b audiotechnik based on our previous experience with the brand and the service support provided by Ansata. The manufacturer recommended the E-Series as it was the best fit for our requirements of full range, high SPL, and being weatherproof," added Subhash.

Due to their stellar experience with Ansata over the years, their after-sales service and support, for Krut Designs, Ansata has always been the number one choice, commented Subhash.

MOWZZ ENTERTAINMENT SERVICES INDIA LLP, TELANGANA

Specializing in concerts, both indoors and outdoors, corporate events, product launches, theatrical productions, etc. Mowzz Entertainments blends cutting-edge technology with innovation to provide professional lighting, video, audio and event production services.

"We at Mowzz believe in quality for all our customers. That's why we decided on d&b and purchased



Daedal Prodigy, New Delhi

18 units of the d&b T10. After buying the V-Series we wanted a compact but similar sonic signature in a box and the T-Series was the perfect answer. Whether it is Line Array or Point Source, the sound is clean and better than any speaker in the market. As a line array it's perfect for most conferences and bands and as a point source we use it in breakaway sessions," said **Zakir Alladin** of Mowzz.

Zakir also mentions the products are easy to rig and elegant and their international clients like Porsche, Audi and BMW love the look it gives to their showroom.

Speaking about buying from

Ansata, Zakir commented, "Who else do we turn to for reliable and dependable support but Ansata. So glad that d&b is in the hands of such an organization. Right from product guidance to import formalities to product training, Ansata is one of those few professional companies in this country".

DAEDAL PRODIGY, NEW DELHI

Daedal Prodigy is a sound and lights rental company that provides a comprehensive selection of audio and lighting equipment to suit the requirements of a particular event. From corporate presentations to nightclub promotions, from private

functions to fashion shows, whatever the occasion, the company has a full inventory of equipment readily available.

Sunny Kalra from Daedal Prodigy said, "We have been providing sound for festivals, weddings, and corporate events for about eight years now. Recently we realized that there is a requirement for better sound in the market as the artists we work with have started demanding better quality and overall the industry has matured quite a bit. We knew it was about time that we up our game as well as our vendors."

Speaking about the brand of speakers they prefer, Sunny added, "When we talk about the best brand of speakers, there are only two names that come to my mind and d&b is one of them. We recently procured **12 units of V-Series** and **6 units of the B22 Array Processed speakers**. It is the easiest system to use and can get very complicated at the same time; it all depends on how we use it. For our smaller shows we use it as a plug and play system and for our bigger shows we take full advantage of the Array Cal and R1 software and Array Process System." He further added, "d&b in my opinion has one of the best ecosystem to work with. The V-series is the most versatile speaker in the market. It can easily handle any kind of venue due to its powerful size. The B22 Sub just adds as the best companion with the V-Series to fill in the low frequencies."

(Continued on page 24)



Mowzz Entertainment Services India LLP, Telangana

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LIGHTING / TRUSS / SOUND / VIDEO / INTEGRATION

LUMASONIC JOINS ADAMSON NETWORK

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 line array modules and 8 E219 subwoofers, all powered by Lab.gruppen PLM20K44 amplifiers to their inventory. Adamson's distribution partner Sonotone and LBT Lighting directed the sale.

"We do a lot of regional events and had been looking to expand our inventory," explains **Craig Saldanha**, of LumaSonic. "Adamson offered us a very versatile and powerful product in a very compact package. The S10 has so much detail; I was blown away and knew it was exactly what we

needed."

"If you change something, change it for the better!" comments **Mackenzie Eudes Pereira** of LumaSonic. "The sound quality and flexibility of the S10 is fantastic, not to mention its simple but sleek design. It is a welcome addition to our inventory and I'm absolutely certain the Adamson system will be kept immensely active here at LumaSonic."

"LumaSonic's commitment to go beyond industry standard norms to ensure their clients attain the best equipment and technology is commendable," says **Karan Nagpal**, director of Sonotone. "I'm thrilled to welcome LumaSonic to the Adamson Network and look forward to supporting them as they continue



LumaSonic, Goa with team Adamson

their impressive growth."

Eshdeep Bhasin, director of LBT Lighting adds, "LumaSonic has a great reputation as an event technology rental organization

specializing in pro audio and intelligent lighting, and we're very happy to be working closely with them as the latest Adamson partner in India."

NEW MEYER SOUND COMPASS 4.6 SOFTWARE

Meyer Sound has announced the release of version 4.6 of its Compass control software package, the first to incorporate new feature sets for full control of Meyer Sound devices, including the Milan-certified GALAXY processors. Compass 4.6

GALAXY network platform processors, CAL beam-steering column array loudspeakers, and the RMServer for remote system monitoring.

"This release marks an important milestone in the long history of Compass control software as it is the

of our digital products Milan-certified going forward," states Meyer Sound Director of Product Management Todd Meier.

With the software and firmware upgrades in place, all existing Meyer Sound GALAXY processors will be immediately capable of upgrading to Milan-certified devices.

In conjunction with the companion update to GALAXY firmware, the Compass 4.6 software release offers other new features. Delay Integration and Starting Points are now accessible in one dialog and available from the Overview and Output Processing tabs. New Starting Points have been added for LYON and LEO loudspeaker arrays, eliminating the need to start configurations from "square one" and thus offering the quick setup of typical systems already available with Native Mode in LEOPARD and LINA line arrays.

The new software/firmware updates streamline the integration of LEO

Family products with many prior generation products, allowing rental companies to maximize inventory use. New Starting Points also facilitate configuration of cardioid and directional gradient subwoofer arrays, and also include EQ and delay profiles that automatically tune legacy subwoofers to emulate the characteristics of the new LFC family of low frequency control elements.

Available for Windows and Mac operating systems, Compass control software provides comprehensive and intuitive control of Meyer Sound self-powered loudspeakers systems either via the Galileo GALAXY network platform or by direct communication to CAL column array loudspeakers. Compass provides a graphical user interface that displays detailed information and controls all device settings including GALAXY control pages, parametric and U-Shaping EQ, AVB network settings, delay integration, high and low pass filters, and CAL beam control.



is the keystone component of a complete update package that also includes new firmware for the Galileo

first version to incorporate the new Milan networking protocol. It changes everything, as our goal is to make all

ANSATA ENSURES STEADY GROWTH... (Continued from page 22)

Daedal Prodigy purchases their equipment from Ansata and considers them the most professional company in the country. "They helped

us through the entire process of purchasing the system by suggesting the model that is best suited for our business. With just one chat with **Leslie Lean**, Director

of Ansata, I was convinced that the V-Series is the one we should buy," Sunny said about Ansata. He further added, "We have purchased equipment from Ansata in the past

and their after-sales service is hands down the best. We know if we buy a product from Ansata we won't have to worry about the service."

Make a sound decision.

For over 30 years, Adamson has taken pride in reproducing audio as naturally as possible through fundamental design and refinement of processes. Adamson loudspeakers are packaged to perform from simulation through lightning fast rigging and truck pack. Impeccable sound with clarity and power.

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POPE PROFESSIONALS LAUNCHES NEW AC SERIES LINE ARRAYS

POPE Professional Acoustics Ltd, a leading sound equipment manufacturer in India announced the price reduction for its 19 models speaker & sub-woofer in the month of April 2019.

powered line arrays and sub-woofers to attract sound rental companies.

The **AC series Line Array** consists of the AC-28, AC-10, AC-210, AC-112, AC-12, AC-212, and AC-2122 models. The

performance benefits to a variety of small and medium scale applications and can be used for Live sound open-air venues, arenas, places of worship, concerts Fixed installations multi-

output to power up the full-range system.

In addition, the company has developed M Series Powered 12", 15" point source coaxial monitors and TH-800 Series Powered full-range system for small indoor and outdoor events.

The **M series**, which consists of M-12CA and M-15CA models, can be applied for Speech reinforcement, live performance stage monitoring, and Reinforcement of vocal and music.

The **TH-800 Series loudspeakers** with model numbers TH-812, TH-815, TH-825, and TH-835 are designed for distributed sound reinforcement and are based on low-frequency drivers with high-frequency compression driver coupled to horn. The loudspeakers can be used for Auditoriums, bars, restaurants, fitness centers, gyms, Live Performances, and concerts.

Further, POPE Professional's Managing Director added that all of the speakers, sub-woofer cabinets, hardware, and drivers are made in India under one roof. At the same time, the company didn't compromise on quality and followed international standards.

For an aesthetic look and reliability, POPE Professional® is using SoundFlex® Polyurea based environment-friendly coating.



AC-28 Line Array



M-15CA Stage Monitor



TH-800 Series Loudspeakers

POPE Professional® is constantly innovating and launching a minimum of twenty plus new Products every year. Currently, the company has developed a new AC Series compact

Line Array speakers consist of POPE Professional transducer, Neodymium drivers, throat compression drivers, Titanium diaphragm, and Neodymium magnet. These are designed to bring

purpose auditoria, sports venues, live theatres, corporate AV, etc.

For the installation and small segment sound reinforcement, POPE Professional® has developed the MP Series multipurpose powered sub-woofers with two-way and three-way

MIPRO'S 3RD GENERATION WIDEBAND ACT-7 SERIES WIRELESS SYSTEM

MIPRO's industry-leading technology, including AutoScan and patented ACT (Automatic Channel Targeting) channel sync setup, delivers the forward-thinking features that enable our customers to specify and install systems with complete confidence. The MIPRO ACT-7 Series analog system is designed for professional audio applications. This 3rd generation system offers exciting 72MHz wideband technology, which could cover all legal frequencies of US and

Europe. Two true diversity receiver models are available: dual-channel ACT-72 and quad-channel ACT-74. The compatible transmitters are ACT-70H handheld and ACT-70T bodypack. Inheriting MIPRO most advanced technology and features, ACT-7 Wideband Series is noted for its anti-interference

characteristics, rock-solid RF reception and most compatible systems possible utilizing multiple bands. The ACT-7 Series offers the highest number of compatible frequencies in the industry, allowing up to 48 simultaneous channel operations. The user-defined group selection from frequencies and frequencies can

allows 2,881 up to 16 be saved.



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BIG STAGE AUDIO DEPLOYMENT

SNL Pro Ups the ante at the OnePlus Music Festival

Delivers state-of-art audio system design, trussing and rigging and eye-catching pyrotechnics

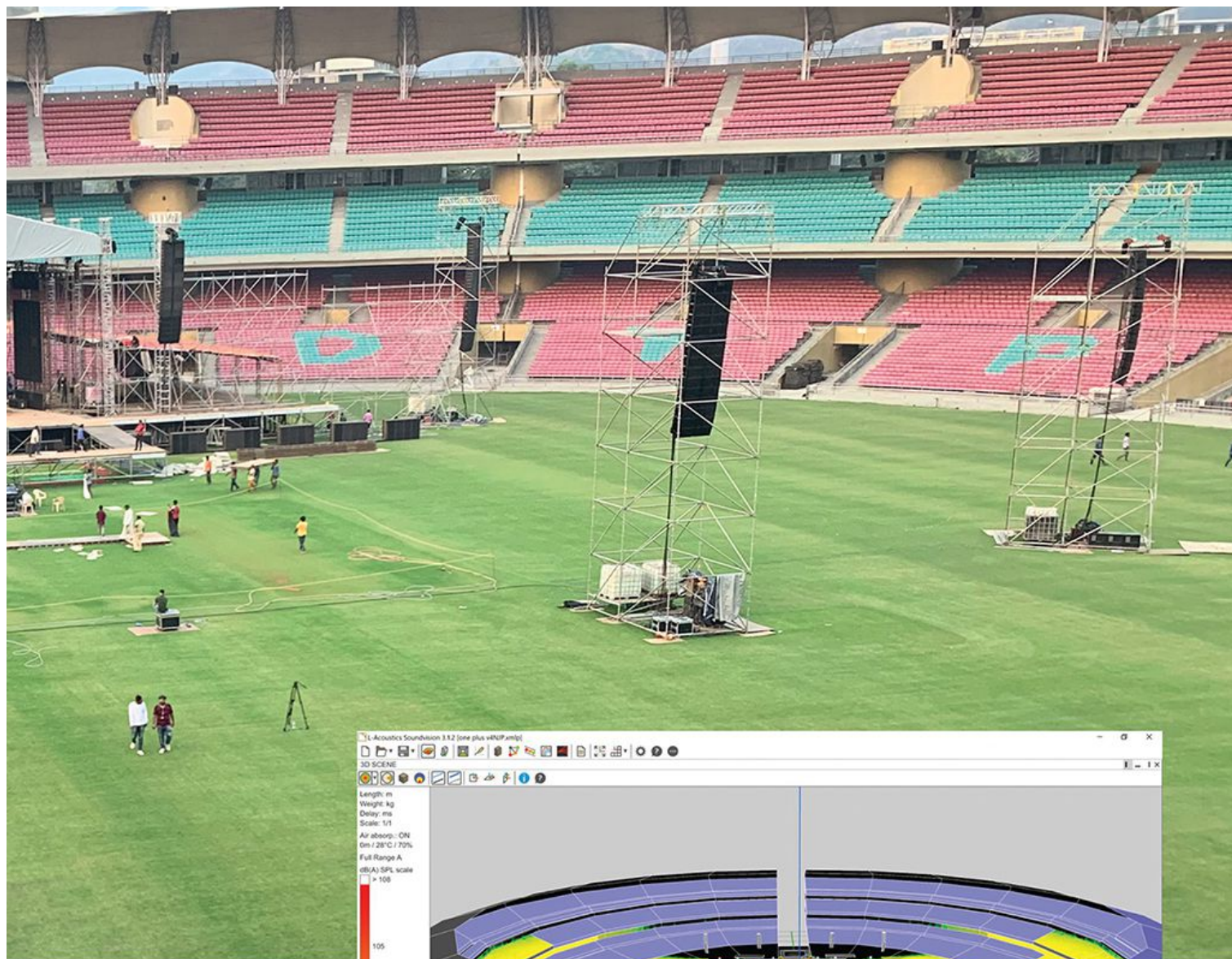
The debut edition of the OnePlus Music Festival witnessed large-scale production and spot on sound reinforcement with a dynamic **L-Acoustics** deployment across the venue.

Curated by OnePlus, the **OnePlus Music Festival** "merged the wonder of music and the power of technology" to bring an immersive experience at the **DY Patil Stadium** in Mumbai on 16th November.

A mix of leading international artists like **Katy Perry** (who performed in India seven years after her debut performance



The proud SNL Pro crew pose together for a team pic



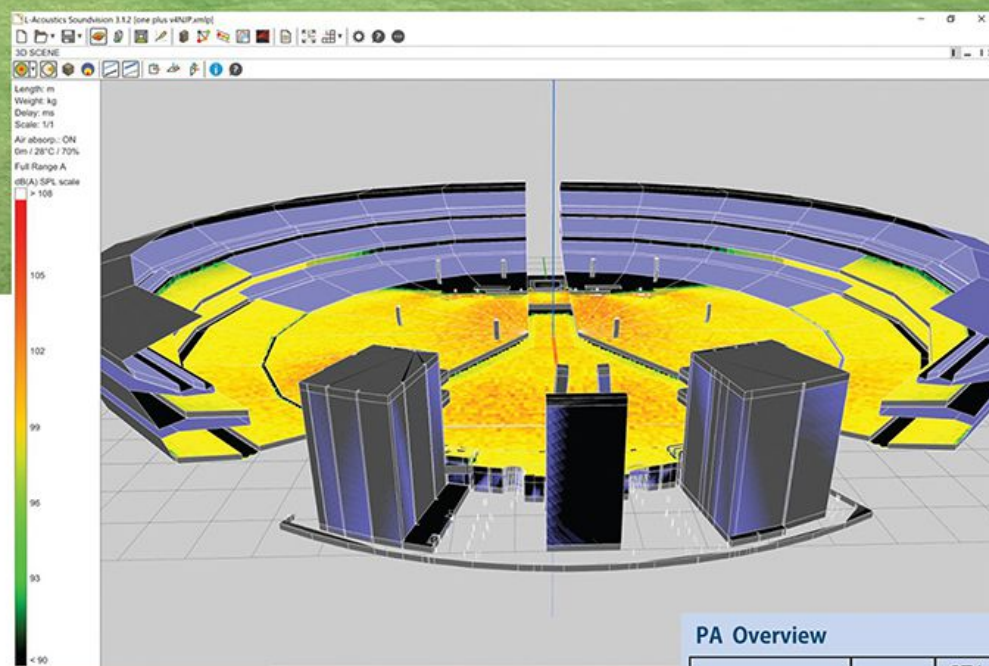
at the 2012 Indian Premier League) and **Dua Lipa**, and Indian artists **Amit Trivedi**, **Ritviz**, **The Local Train** and **AsWeKeep-Searching**, enthralled music lovers from across India who had descended on the venue to be a part of this "celebration of music and community".

The debut edition of the event witnessed large-scale production as the stage flaunted a giant Katy Perry mannequin figure, hundreds of moving lights and sound speakers, 4,500 running feet of trussing and awesome pyrotechnics delivering a larger-than-life experience.

Wizcraft India roped in Mumbai based **Sound & Light Professionals (SNL Pro)** to deploy the entire audio system, trussing roof system with sub-hangs and multiple hoists towards rigging. Wizcraft also entrusted the company to take care of all the pyrotechnics and the special effects that music aficionados witnessed at the OnePlus Music festival.

Sound Inventory

Manish Mavani, Director of SNL Pro,



L'Acoustics 3D sound design and acoustical simulation program – Soundvision, capable of operating in real time, took care of the SPL mapping and complex sound system planning and configuration.

opted to roll out the L-Acoustic K1 and K2 line source as the mains. The P.A. consisted of left-right line arrays made up of 24 K1 Large format WST Line Source and 12 K2 Variable curvature WST line source. For sub-bass, 64 SB28 High-Power Subwoofers were ground-stacked in front of the stage. 16 K1 and 32 K2 cabinets delivered Outfill, while

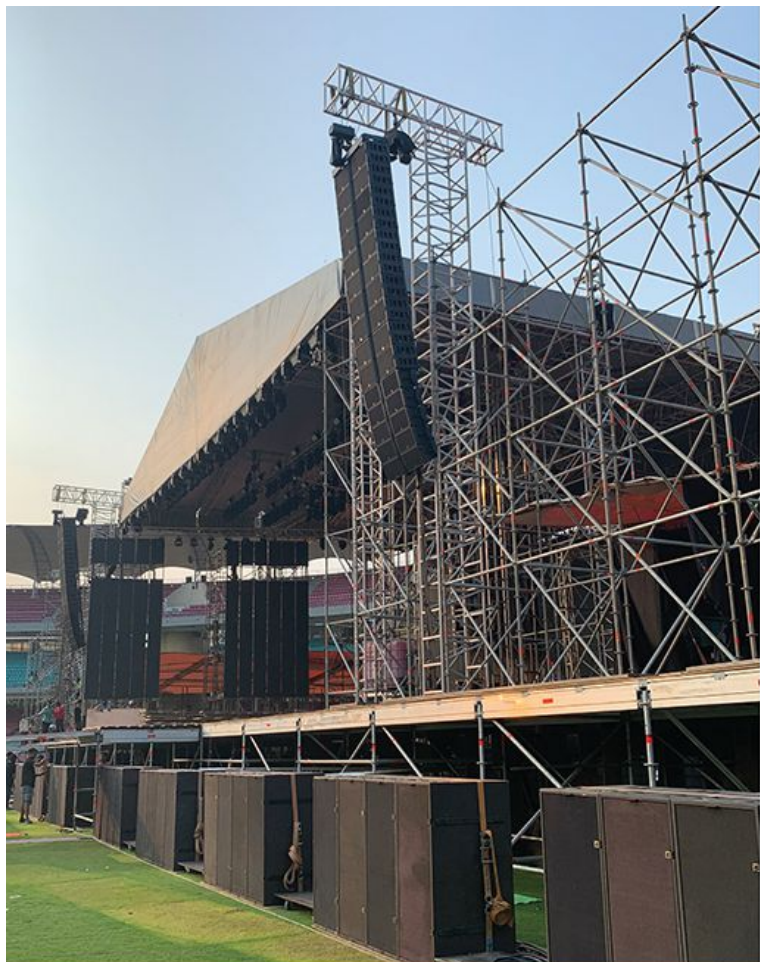
8 Kara Modular WST line source were positioned to provide front fills. 16 number of X15 active coaxial systems were positioned center stage to provide stage monitoring.

Mammoth 8 line array towers were deployed totaling 40 K1's, 92 K2's and 18 Kara's.

L-Acoustics P1 managed processing

PA Overview

		QTY
MAIN LR	K1	24
	K2	12
OUTFILL	K1	16
	K2	32
DLY CENTRE	K2	24
DLY Outer	K2	24
	Kara	10
FRONT FILLS	Kara	8
SUBS	SB28	64
Misc Applctaion	Arcs	8
Monitoring	X15	16



Mammoth 8 line array towers were deployed totaling 40 K1's, 92 K2's and 18 Kara's



11 consoles were deployed for the show, with nine in use and two on standby

and cutting edge loudspeaker amplification was provided by L-Acoustics LA8 and LA12X. The L-Acoustics P1 processor also served as a front-end processor, an audio matrix, and bridge.

"Choosing L-Acoustics was simple as it produces an unparalleled sonic experience for the audience, with easily re-configurable sound systems. Renowned

throughout the industry for pioneering the modern line array, L-Acoustics offers a total system approach that delivers a colossal experience to the listener," said Manish Mavani.

"Only with a good sound system can everyone enjoy the show," he adds.

The band and artist preferred requirements also included much of the

L-Acoustics that was used.

L-Acoustics 3D sound design and acoustical simulation program – Soundvision, capable of operating in real time, took care of the SPL mapping and complex sound system planning and

(Continued on page 75)

Console Overview

ARTISTE	COSNROLE	LOCATION
KATY PERRY	DIGICO SD 5 + SD RACK	MON
	DIGICO SD 10	Backup
	DIGICO SD 10 + SD RACK	FOH
PCR	AVID S6L 32 D + E 192	CONTROL ROOM
	AVID STAGE 64 - 6432	CONTROL ROOM
	AVID STAGE 64 - 6424	STAGE
LOCAL BAND	AVID S6L 24 C + E 112	FOH
	AVID STAGE 64 - 6432	STAGE
AMIT TRIVEDI	DIGICO SD 10	MON
	DIGICO SD 10	FOH
	DIGICO SD RACK	STAGE
PRODUCTION	AVID S6L 32 D + E 192	FOH
	AVID STAGE 64 - 4816	FOH
	AVID STAGE 64 - 6416	STAGE
	DIGICO SD RACK X 1 (BACKUP)	
	AVID S6L 24 D + E 192 (BACKUP)	
	DIGICO SD 10 X 1 (BACKUP)	
	DIGICO SD RACK X 1 (BACKUP)	
	FIBER CABLE 150M X 2 (BACKUP)	

SNL Pro Crew

AUDIO	Cijith	System Design & Planning
	Jagdish	Stage incharge & RF coordinator
	Kamesh	Sr. Sound Engineer
	Shane	Stage Hands
	Amit	Stage Hands
	Kalpesh	Stage Hands
	Arvind	Sr. Technician
	Rais	Technician
	Feroz	Technician
	Sabir	Technician
	Nayan	Technician
	Muttu	Technician
TRUSS	Bruce	Truss & Scaff design and planning
	Jha	Technician
	Gopal	Technician
	Narayan	Technician
	Rajesh	Technician
	Lallu	Technician
	Ashish	Technician
SFX	Mikhail	SFX Design & Planning
	Kewal	SFX Programming
	Ibrahim	Sr. Technician
	Ganesh	Technician
	Saud	Technician
	Ashish	Technician



X2

2000 WATT 2 CHANNEL AMPLIFIER



X3

3000 WATT 2 CHANNEL AMPLIFIER



X5

5000 WATT 2 CHANNEL AMPLIFIER



X7

7000 WATT 2 CHANNEL AMPLIFIER

MODEL	8Ω	4Ω	2Ω
X2	500 W	800 W	1000 W
X3	1000 W	1400 W	1600 W
X5	1300 W	2000 W	2500 W
X7	1800 W	3500 W	4000 W

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AKG ANNOUNCES NEW LYRA MULTIMODE USB MICROPHONE

The AKG Lyra delivers the highest audio quality in its class, with acoustically transparent 24-bit/192kHz audio resolution. Featuring advanced circuitry drawing on AKG's 70-year long history of microphone tech, Lyra features the innovative AKG Adaptive Capsule Array, which provides user-selectable capture modes that are optimized for any performance and makes it easy to deliver professional sound for any application. The plug-and-play operation allows creators of all experience levels to get set up with and start recording quickly, while easily accessible controls provide complete control and seamless ease of use. An internal self-adjusting shock mount minimizes contact noise, while a built-in sound diffuser and AKG's proprietary Internal Element Overload Prevention automatically reduces noise, eliminates pops, and

improves signal levels.

The AKG Adaptive Capsule Array uses four versatile capture modes to adapt to performance needs, eliminating guesswork and enabling users to capture pristine audio quality in a wide range of recording scenarios. Front & Back mode captures and blends sound equally on all sides, which is ideal for face-to-face interviews and duets. Tight Stereo mode captures audio in true stereo with discrete left and right audio, providing great separation for side-by-side interviews or panel discussions, or for recording instruments like drums or piano.

Designed with plug-and-play simplicity, Lyra enables creators to set up and start recording quickly, regardless of experience level. Lyra is designed to work right out of the box and is compatible with Windows, Mac, iOS and Android devices, so users can quickly record ideas in the studio or on the go. From recording

music in a digital audio workstation, to live streaming on Twitch or shooting a YouTube video, using Lyra is as easy as plugging in a USB cable and pressing go-live or record.

Lyra is equipped with a "zero-latency" headphone jack and headphone volume knob that eliminates the short delay between speaking into a microphone and hearing the signal in the headphones, so creators can stay focused on their performance.

Lyra features a sleek design that combines fast and easy control with timeless aesthetics. Essential functions like capture modes, volume levels and mute are ergonomically placed and easily accessed right on the mic, so users can stay in the moment while always being in control. An integrated desktop stand with built-in cable management makes it easy to position Lyra on a desktop. The mic can also be mounted to a traditional mic stand or microphone boom arm



for more flexibility in the studio. Lyra includes Ableton Live 10 Lite recording software and works seamlessly with all major audio and video production software and online platforms.

CUBASE 10.5 FOR CREATIVE MUSIC PRODUCTION

Steinberg has launched the newly released versions of its award-winning music production system, Cubase 10.5. It combines sophisticated audio/MIDI tools with pristine audio quality to deliver one of the most advanced DAWs today.

The Cubase 10.5 provides new features and enhancements to its Pro, Artist, and Elements editions. Cubase covers a vast range of applications, comprising state-of-the-art technologies and a comprehensive feature set ideal for composing, recording, editing, and mixing music; with its full scale of powerful features readily available in the Pro edition and downscaled in the feature selection in Artist and Elements in order to be used by beginners and professionals alike.

PROFESSIONAL FEATURES FOR PROFESSIONALS

Cubase Pro 10.5 comes with several exclusive features that are not included in Cubase Artist and Cubase Elements. Spectral Comparison EQ is one of them. It is a new mode in the Channel EQ that allows users to compare the spectral components of two audio signals in order to adjust and bring balance to the mix.

Import Tracks from Projects is another completely revised feature, making track import from other Cubase projects as simple as it gets. Additional track types, such as Group, FX, and Folder Tracks, can be selected and imported as well, while the Auto Map function aligns imported tracks with the same name as existing ones.

Cubase is the go-to DAW for scoring to picture, and with Video Export Render the capability to work with video excels to the next level. With 10.5, users of Pro, Artist, and Elements can now export time coded MP4 video including

44.1 kHz or 48 kHz/16-bit audio.

Instead of normalizing by dB FS Max, Cubase Pro 10.5 now offers an alternative. Pro users can normalize with the Loudness Unit Full Scale (LUFS).

RELEASE HIGHLIGHTS FOR ALL

With Padshop 2, Cubase Pro and Cubase Artist now also boast beautifully designed and unique-sounding granular and spectral synthesizer with more than 570 presets and 570 pre-produced samples, allowing users to import and redesign their own samples.

and editing delay, with different presets and numerous parameters ensuring the utmost flexibility.

Especially useful in projects with a high track count, Colorized Mixer Channels is a new option in the MixConsole that colorizes complete channels and provides an easy overview.

Another workflow expeditor is the Combined Select Tools mode, newly implemented in Cubase Pro and Cubase Artist. By switching into this mode, both selection tools for objects and ranges can be used together, making track editing even easier in Cubase.

Retrospective MIDI Record has also been revised, now allowing users to retrieve MIDI chords and melodies that were never recorded, placing them as a stacked cycle or continuous across individual tracks.

Cubase Pro 10.5 now includes many additions and refinements to its Score Editor, such as the available Note Ruler when inserting and moving notes or the new Graphic Snap for easy positioning of rests and repeat markers in the score.

Apart from the various highlights

(Continued on page 34)



MultiTap Delay is the latest effects processor to be added to Pro and Artist, providing a creative approach to creating



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KRK SYSTEMS DEBUTS THE CLASSIC 5 STUDIO MONITORS

KRK Systems has launched the Classic 5 Professional Bi-amp Studio Monitors designed using concepts and components from the brand's previous Rokit lines. Delivering a multitude of

features KRK's Classic 5 is a versatile powered nearfield studio monitor that meets the needs of producers and engineers and is great for any style of music. Consistent with their name, the Classic 5 monitors are

packed with a multitude of features including a bi-amped Class A/B amplifier with built-in automatic limiter and a low-resonance enclosure for minimized distortion and colorization.

Moreover, the five-inch lightweight, glass-Aramid composite woofer delivers clear midrange and tighter bass and a one-inch soft dome tweeter with optimized waveguide provides smooth, pristine, and articulate highs up to 35KHz and ensures detailed imaging in the listening position. The Classic 5 also comes with a pre-installed hi-density foam pads underneath to decouple the speaker enclosure from the surface.

The monitors also feature a front-slotted bass port, which reduces boundary coupling and aids positioning within a room, and high- and low-frequency controls so that users can adjust the monitor's sound to their environment and preference. Additionally, multiple input

connections (XLR, 1/4-inch, RCA) guarantee seamless integration and universal connectivity.

"At KRK Systems, our goal is to design solutions that provide users with the freedom to create the most accurate and pristine productions, no matter what genre or environment they're working in," says **Jimmy R. Landry**, Global Director of Marketing, Pro Audio Division, Gibson Brands. "With this Classic 5 studio monitor, we took into consideration what people have always loved about creating music on previous KRK monitors. From there, we zoomed in and fine-tuned certain components to make it an incredibly versatile monitor for music creation, mixing and mastering. With the optional +2dB KRK Bass Boost, the new Classic 5 can hold true to the acclaimed KRK sound that music creators around the world have loved for years."



API DEBUTS 50TH ANNIVERSARY PRODUCTS

Celebrating the company's 50th Anniversary, API announced the debut of two new limited edition units, the 862 50th Anniversary Edition Channel Strip and the 2500 50th Anniversary

Edition Stereo Bus Compressor.

The 862 features a combination of the 550A EQ and 312 Mic Preamp 50th Anniversary Editions, incorporating the original 500 Series

pcb's as they were designed by API's founder, Saul Walker. The outcome is a vintage-style, highly collectable and incredible sounding API classic. Each 862 Anniversary Edition is exclusively

serialized indicating its status as a major part of a limited run of only 50 units. Meticulously assembled and carefully hand wired, the 862 is a genuine show-stopper and a rare piece of recording history. Next, the new 50th Anniversary



API 862 Channel Strip



2500 Stereo Bus Compressor

serialized indicating its status as a major part of a limited run of only 50 units. Meticulously assembled and carefully hand wired, the 862 is a genuine show-stopper and a rare piece of recording history.

Next, the new 50th Anniversary

meters, and a 2U, gold-faced chassis. As with the 862, a limited run of 50 units will be produced. Carefully designed to deliver API's signature analog sound, the 2500-AE delivers warmth, clarity and punch, whether used for subtle adjustments or heavy compression effects.

CUBASE 10.5 FOR CREATIVE... (Continued from page 32)

presented in Cubase 10.5, the Macro creation window in Cubase Pro and Cubase Artist has been improved; Cubase Elements 10.5 now complements its plug-in chain with the included Stereo Delay, De-esser and Roomworks signal processors,

previously only available in Cubase Pro; and three editions also include many refinements that improve the graphical performance and overall workflow.

Steinberg's Senior Marketing Manager for Cubase, Matthias

Quellmann, commented: "With this point five update we put a strong focus on improving the entire workflow and expanding the creative toolset based on the feedback of our global user community. You get many new, very useful features

across all three editions, and at the same time, you also get an array of improvements to existing features, making the overall experience with Cubase even more streamlined, more enjoyable, simply the best possible we think you can get from a DAW."

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ANSATA HOSTS LOUDNESS SEMINAR WITH AVID, DOLBY, AND NETFLIX

On 11th October 2019, some of the most prominent audio industry professionals gathered in Mumbai for the Loudness Seminar hosted by Ansata.

The Loudness Seminar, a seminar on loudness concepts, measurements, and applications boasted of eminent industry experts who shared their expertise on loudness measurement and mixing for OTT, with the Indian sound community.

The speakers at the seminar included **Bhaskar Pal**, Senior Content Services Engineer, Dolby, **Sreejesh Nair**, Pro Audio Application Specialist, Avid and Scott Kramer, Manager, Sound Technology/Creative, Netflix.

There were around 200 delegates

that" conducted by Sreejesh Nair and "Building a Nearfield room and Dolby Atmos for OTT" by Bhaskar Pal.

"This event was led by Avid with the help of Dolby, Netflix, and Ansata. The event was more in line of educating the audience on loudness. This was a first time event. It was not a sit down on deciding standards. However, more in explaining why the standards were set so. The agenda was about explaining what loudness was, how it is measured, how to use that knowledge in mixing for a delivery spec on Pro Tools. This was followed by Dolby explaining how a room is built for delivering Dolby Atmos audio through OTT/streaming media platforms. It also outlined how to place speakers, how a Dolby certified room is built, and what

Bhaskar Pal's session on "Building a Nearfield Room and, Dolby Atmos for OTT", was designed to make people aware of:

- Minimum requirements for a Dolby Atmos HE mix room
- Design principles of the room
- Monitoring standards for such rooms
- Workflows for content creation in Dolby Atmos for home entertainment to show that it is actually much simpler than people imagine and more time efficient to deliver multiple formats from a single mix.

"Dolby Atmos for Home Entertainment (OTT/Streaming services) is becoming very popular and almost a standard now. However, local content creation in Dolby Atmos

Eminent sound engineer Bishwadeep Chatterjee, Chief Engineer, and Founder, Q-Factor, Timbreworks and Orbis Studio reinforces, "Sound has diversified from movie theatres to OTT platforms, and surround broadcast. Tech specs change depending on what platforms we eventually cater to. Seminars like these update us and bring relevance to what we do. Special thanks to Sreejesh, Bhaskar, and Netflix for enlightening us and Ansata for the support."

Talking about the aim of the session, Bhaskar added, "The aim of the session was to make the participants fully aware of the latest standards in Dolby Atmos for Home Entertainment content creation and enable them to design standardized mix rooms and mix this content with confidence".

Rakesh Ranjan felt that both the presentations needed at least one full day for people to grasp and understand. "This observation comes from the type of queries people were putting up at the seminar," he said.

MIXING, METERING AND DELIVERING SPECS

The second half of the seminar focused on "Workflow for OTT. Mixing and metering specs and delivery" once again conducted by Sreejesh Nair. Post this session Scott Kramer educated the Indian sound community on "Delivering for the spec".

"This was a very unique event for many reasons. One being, that three major players came on a common platform. The other reason was we explained the process from creation to execution. This means it was a complete breakdown of the measurement specs, how to read those meters, how those meters actually measure, and how to use that knowledge in mixing. This was a true-eye opener for many because once the technicalities were understood from a very simple layman perspective; they understood the tricks and methods they could use for a mix. It also enables them to understand the core differences between ITU, EBU, and various measurement standards," said Sreejesh.

(Continued on page 37)



Sreejesh Nair conducting the Loudness Seminar

from across India who attended the invite-only event, held at Sea Princes Hotel in Mumbai to acquire critical information on loudness specs. The Loudness seminar helped attendees who included professionals from film post and TV industry understand the strict requirements for loudness specs being enforced, and understanding of how achieving the same would deliver much better output and quality.

LOUDNESS MEASUREMENT AND DOLBY ATMOS FOR OTT

The first half of the seminar focused on topics like "Loudness, True Peak and Standards. Measurement and how to interpret

should be looked at acoustically as well. Netflix followed this by how their specs are written. What should be done to mix and make sure the mixes are approved. Scott also explained how the deliverables were created for shows and where their guides were followed" said Sreejesh Nair.

Rakesh Ranjan, Senior Faculty, Whistling Woods International, who attended the seminar, commented, "The seminar by Ansata was a very well attended by many professionals. The presentations by all three speakers was very informative. Sreejesh's presentation on Loudness was excellent and was well explained and so was Bhaskar Pal's Dolby Atmos room dimensions and work flow".

for the home is still relatively new. Most of the expertise in Dolby Atmos today is in creating content for cinemas. There are certain important differences in how Dolby Atmos content is created for home. The mix room needs to be designed specifically keeping this in mind. We at Dolby have also put in place a program to certify mix rooms for Home Entertainment (HE) Atmos. The aim of this program is to ensure that such certified rooms will meet the minimum international standards for Nearfield Dolby Atmos mixing. There are also certain norms for the loudness management of content created for homes. This is a very new concept here in India," said Bhaskar Pal.

SOLID STATE LOGIC ANNOUNCES ORIGIN - NEXT GENERATION ANALOGUE STUDIO CONSOLE

Solid State Logic (SSL) announces the latest ORIGIN analogue console. As the latest in a long heritage of SSL studio mixing consoles, ORIGIN has traditional analogue studio workflow whilst providing the perfect partner for a modern DAW driven 'hybrid' production studio. The traditional design looks back to the 'origin' of in-line consoles for signal flow inspiration, but blends cutting edge analogue developments to deliver a unique sonic signature that is still unmistakably SSL.

A purely analogue, inline, dual channel design, with 16 buses, E Series EQ and the classic Bus Compressor, ORIGIN breathes new life into a design classic across the whole console. The new PureDrive™ mic pre inherits the clarity and purity of previous SSL Mic Pre designs that can also switch character to a warm, harmonically rich, and driven

tone that varies with mic pre gain. The new mix bus and mix amp architecture delivers an amazingly low noise floor along with a huge headroom for a summing bus, that retains the classic SSL sound while bringing the breadth and space to mixes that engineers and producers love from analogue summing. Balanced insert points per channel path, dedicated channel direct outputs, stem-ready 0dB fader bypass switches, and a new configurable centre section, make it an ideal way to add console workflow to a modern production studio.

"This really is the culmination of everything we have put into analogue console design over the past four decades" comments Niall Feldman, SSL Director of New Products. "ORIGIN is the studio console we would have created then, for the way we work today – it is quite simply a new



analogue classic."

"Music production is core to our origin at Solid State Logic" adds **Nigel Beaumont**, SSL Managing Director, "and it's important we utilize this unique heritage to continue defining new products that are more

accessible to the growing studio market. It allows us to deliver next generation consoles such as ORIGIN, with the right features, at the right price point, and of course, with that unmistakable SSL sound."

ANSATA HOSTS LOUDNESS SEMINAR... (Continued from page 36)

RECEPTIVE PARTICIPATION

"The audience was very receptive. We had a mix of engineers and designers who flew in from Hyderabad, Delhi, Kerala, and many other places just to attend the event. It was unique in that way and shows the need of

useful to be able to understand key elements of loudness and delivery. Everyone does this on a day-to-day basis and knowing exactly how these measurements and tools work help very well in delivering good sounding mixes consistently. Moreover, showing Pro Tools features and tips and

knowledge".

Farhad K. Dadyburjor, Chief Technical Officer, Famous Digital Studios, said, "It was really good. It is much appreciated and I would be glad to attend many more of these kinds of seminars." He thanked Ansata, Dolby, AVID and Netflix for

and organize workshops from time to time as an initiative to spread awareness about the latest technology and best practices in the industry. "One needs to appreciate Ansata for taking the initiative and organizing a seminar of this magnitude", added Rakesh Ranjan.

Speaking about the efforts put in by Ansata, Sreejesh says, "None of this would have been possible without the support of Ansata. They took the lead in organizing the space, getting the invites out, coordinating equipment and much more. In fact, Ansata's singular effort got such an overwhelming response not only about the event but specifically from the attendees as well. Ansata has always been supportive of educational events and with Ansata we have done multiple ones through the year. This was unique in terms of content, participation, and attendees".

"I am thankful to Sreejesh Nair for conceptualizing the Loudness Seminar and to Bhaskar Pal and Scott Kramer for agreeing to do this seminar which was the need of the hour.



Loudness Seminar organized by Ansata, Mumbai

the industry in the current hour. In fact, it was very important for Avid as well because we see passing on more than just product information and actually engaging in industry on educative workshops like this along with partners as a key element to the betterment of an industry as well. This workshop came because of a conversation of a large group of engineers who said it would be very good and

tricks to use this knowledge in quick delivery was also a huge benefit", adds Sreejesh.

Speaking about the participation of the attendees, Bhaskar Pal said, "There were 200 industry professionals from the field of audio and audio mixing and it was the largest attended seminar held for similar topics earlier. The feedback was simply great, the attendees loved the topics covered, and they wanted more in depth

taking the time, effort, and expense to do this Loudness Seminar.

THE ANSATA INITIATIVE

Attendees were unanimous in that, Ansata had taken a great initiative to educate the community on topics, which were not yet well understood by industry professionals.

Bhaskar spoke about Ansata as being a great partner who believes in working with their customers

UNIVERSAL AUDIO LAUNCHES NEW APOLLO X4 THUNDERBOLT 3 AUDIO INTERFACE

Universal Audio, one of the leading manufacturers of professional audio recording hardware and software, recently released Apollo x4 Thunderbolt 3 Audio Interface.

connectivity for Mac and Windows.

Apollo x4 enables musicians and producers to effortlessly track, overdub, and mix larger projects with the Apollo X conversion. Built for musical collaboration, the Thunderbolt

— allowing users track and mix with the full library of UAD Powered Plug-Ins with near-zero latency.

A powerful feature exclusive to UA audio interfaces, Unison technology gives Apollo x4 mic preamps the exact impedance characteristics, gain stage “sweet spots”, and unique circuit behaviors of the world’s most sought-after tube and solid state preamps, guitar amps, and stompboxes — including genuine emulations from API, Neve, Manley, SSL, UA and more.

With its unparalleled powerful range, Realtime UAD Processing, and a host of included UAD plug-in titles via the Analog Classics Plus Bundle, Apollo x4 unquestionably beats everything in its class, giving users a fully-stocked analog studio right on their desktop, that’s made to collaborate.

Apollo x4 — Key Features:

- Flagship 12 x 18 Thunderbolt 3 desktop audio interface for Mac and Windows
- Elite-class A/D and D/A conversion inherited directly from acclaimed

Apollo X rackmount interfaces

- 4 Unison mic/line preamps offering stunning models of classic tube and transformer-based mic preamps and guitar amps
- UAD-2 QUAD Core Processing for tracking through vintage compressors, EQs, tape machines, mic preamps, and guitar amp plug-ins with near-zero latency
- 2 front-panel Hi-Z instrument inputs and 2 independent headphone outputs
- Built-in talkback mic for communication with studio talent and recording slate cues
- Includes monitor remote functions and Mono, Mute, DIM, and ALT monitor controls
- Up to 8 channels of additional digital I/O via Optical ADAT/SPDIF input and output
- Includes the Realtime Analog Classics Plus UAD plug-in bundle featuring the Teletronix LA-2A, 1176, and Fairchild 670 compressors, plus Pultec EQs, UA 610-B Tube Preamp & EQ, and more.



Interface, with elite-class A/D and D/A conversion inherited directly from the award-winning Apollo X rackmount interfaces, four Unison-enabled mic preamps, and Thunderbolt 3

3 (12 X 18) desktop interface features dual front-panel Hi-Z inputs and four mic preamps with 127 dB dynamic range, plus Realtime UAD Processing via built-in UAD-2 QUAD Core DSP

CLARITY — BY MASTERSOUNDS — HIGH FIDELITY SPEAKER SYSTEM

Mastersounds UK has recently launched its much-awaited and anticipated CLARITY audio systems. CLARITY has been designed and developed in collaboration with audio manufacturer TPI.

CLARITY comprises of the CUBE 6 loudspeaker, PM 160 Power Module amplifier, and SUB 8 passive subwoofer and has been designed to offer the highest level of audio fidelity for a studio, DJ

monitoring environments or home HI-FI systems.

“The design ethos behind CLARITY is simplicity, versatility, and flexibility, offering a beautifully open and natural soundstage in a compact and visually attractive package. Each of the three key elements that make up the CLARITY system has

been expertly designed to integrate perfectly with one another, in a no-compromise audio solution,” says

MasterSounds’ founder **Ryan Shaw**.

The compact CUBE 6 loudspeaker is fitted with a custom 6" full-range point source TPI driver, delivering open, transparent, and clear sound. Amplification is handled by the PM 160 Power Module, where dual-mono linear topology and exclusive TPI circuit design provides a true 320W RMS of power to the CUBE 6 loudspeakers and Sub 8 subwoofer. The SUB 8 features a custom carbon fibre 8" dual-voice-coil driver, and TPI exclusive bandpass design, allowing flexible room placement and powerful extended output, producing natural, musical, and ultra-controlled bass. The CUBE 6 and SUB 8 feature composite front panels, polished and engraved by TPI, with the PM 160's outer sleeve crafted and polished in the same

material to present a united aesthetic.

“CLARITY has been designed to allow maximum flexibility and audio performance for its users. Premium quality components and meticulous engineering make CLARITY the obvious choice for DJs, producers, and music lovers,” comments TPI’s CEO **Giles Smith**.

Shaw concluded saying, “We have developed a solution where all the parts of our CLARITY system are built for perfect symbiosis with one another, removing the age-old problem of system matching headaches, even down to us supplying the correct inter-connecting leads. Simply add a chosen pre-amplifier or DJ mixer and enjoy a wonderful audio experience!”



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There is no better way than ending 2019 than listing out some of the best DJ gear from some of the best DJs in the country.

DJ Ali Merchant

Ali Merchant known for his official remixes of "Tamma Tamma Loge", "Bad Boys Mashup", "Gulabo", "Aao Raja" and his music video "Butterfly" that has crossed over 9 million views, made his debut as an actor in Hindi daily soaps and went on to become a reality star. Established as one of the best DJs in the country, Ali has played alongside international acts like DJ Snake and shared the stage with him at the Sunburn Holi Festival, one of the largest Holi festivals in the world. "The recent Da-bangg Tour at the Coca-Cola Arena in Dubai was definitely one of the biggest Bollywood Concerts I have done to date", he says. DJ Ali is getting ready for his next gig at Prism, in Hyderabad, ranked in the world's top 50 clubs. About the gig, he says, "It's going to be an Audio-Visual Experience with loads of special effects". A secret tip he shared with us "I do a lot of my homework setting up the cue points at the perfect times...as the set involves a lot of on deck mashups and edits".



Favourite Gear

Player: Pioneer CDJ Nexus 2
Mixer: Pioneer DJM 900

Lost Stories

Since their journey began in 2009, **Lost Stories** have risen to prominence and have been responsible for creating, spearheading, and captivating the world with their talent. The duo (**Prayag Mehta** and **Rishab Joshi**) have received immense support from the likes of Armin Van Buuren on ASOT, BT, Markus Schulz and more. Having performed at the Tomorrowland Music Festival (Belgium), Mysteryland (Netherlands), Marenstrum Music Festival (Spain), Sunburn Music Festival (India), Supersonic (India), and many other music festivals around the world, the boys have been ranked among the top DJs of the country. Their fan-based crossed all bounds when they collaborated with Armaan Malik for the Cover of Justin Bieber's "Sorry" which hit over a million views in just a few hours after its release. Talking about their favorite event so far the duo commented, "Supporting Alan Walker in Colombo last year with 20,000 plus fans screaming and dancing, will be an event we will never forget". Though they are not sure where their next event is taking place they love to be hands-on with the setup. "We use Rekordbox a lot when it comes to our performances. We end up playing a wide range of music and rekordbox really helps us get a bird's eye view of our entire set, helping us set our important cue points, harmonic mixing points, emergency tracks all of which help us build some really big moments in our sets". "Also the Akai MPC is a great tool for live and in-studio as well", they added.



Favourite Gear

Player: Pioneer CDJ 2000 NX2
Controller: Akai MPC
Mixer: Pioneer DJM 900
Headphones: Beats



DJ Akhil Talreja

DJ Akhil Talreja is known as the Tapani King of Bollywood Music and according to the DJ himself, Tapani music relates well with the crowd, which in turn makes the crowd relate with him. He has single-handedly redefined Bollywood retro remixes for today's generation. With super hit albums like 'Akhilicious Vol. 1' and 'ReRun', DJ Akhil's constant deliverance in music has made him one of the favorite picks for gigs not just in India but overseas as well. DJ Akhil Talreja has co-founded his own institute called Party Map DJ Academy for budding DJ artists. Talking about his upcoming projects, he will be on a Nepal tour soon where he will be spinning at Prive in Kathmandu. The set up will be for a capacity of 1000 and he will be using his favorite Pioneer gear. On why he opts for Pioneer he says, "Over the time Pioneer has always been the first choice because of their user-friendliness, stability, quality, & top-notch features". Though for Akhil there are plenty of memorable events, he takes each event seriously to make it memorable not for him but for the crowd. For all the upcoming and new DJ's he has a tip, "Do a proper pre-gig analysis as every gig is different with a different crowd. Motivate by speaking to yourself."

Favourite Gear

Player: Pioneer CDJ 2000 NX2

Mixer: Pioneer DJM NX2

Headphones: Pioneer HDJ 2000 MK2

Software: Pioneer Rekordbox

DJ Sartek

Sarthak Sardana, popularly known as DJ Sartek, is the first Indian DJ to be signed to the legendary Hardwell's Revealed Recordings. He is also the first Indian to be signed by Cloud9 Music Publishing. He is not only a DJ but also a music producer. Sartek is one of the only Indians on the Beatport Top 100 charts. DJ Sartek has also played alongside the likes of Justin Bieber, Martin Garrix, Hardwell, Armin Van Buuren, Afrojack, Alesso, Steve Aoki and more. Sartek supported Justin Bieber on his Purpose world tour in India, playing for more than 50,000 people, which is also his most memorable event and playing alongside Hardwell at the World's Biggest Guestlist Festival. Sartek is definitely looking forward to performing on the mainstage at Sunburn Goa in December. Regarding his set up for the festival, "My setup will include a 4 X Pioneer CDJ 2000 nexus 2, a DJM 900 Mixer and of course a wireless mic to get the crowd going" further adding to find their go-to equipment, every DJ goes through a trial and error phase and play around with a lot of different gears. "Over the years, I've released more than 10 original songs and it's a real challenge keeping them relevant to the ever-evolving audience. As a way to have my own original songs incorporated in my shows and keep them relevant, I love to mix and mash them with current hits. Apart from this, I always get my team to capture raw footage of me playing new music so that I can go back and review the impact each song had, which tracks were well received by the crowd and similarly adjust my sets for the following shows", he adds.

Favourite Gear

Controller: Native Instruments X1 MK2

Synthesizer: Native Instruments Komplete Kontrol

Headphones: AIAIAI TMA-2



DJ Shaan

DJ Shaan is one of India's most-followed DJ and among the first DJ to play at the prestigious Tomorrowland and The Box at the Ministry of Sound in London. At the age of 15 he debuted at Sunburn Goa and now works with some of the best names in the EDM industry likes Dash Berlin, Swedish House Mafia, Tiesto, David Guetta, Hardwell, Kaskade, and Micheal Woods. His very first track "Light up the World" was picked up by Statement Records and quickly rose to the Top 15 on Beatport Charts. DJ Shaan's upcoming performance will be at the Fire Music Festival in December where he will be set up with the DJM 900 Nexus 2 and CDJ2000 Nexus 2. He has performed in numerous festivals like Djakarta Warehouse Project, Tomorrowland, Budweiser Storm, Hardwell-The World's Biggest Guestlist, Ministry of Sound, Sunburn and more but his most memorable is the "Sunburn Goa 2013". Shaan reminisces why the event is memorable, "It was the single biggest moment in my career and I think more than anything it really defined my fan base in India. It was one of the toughest Sunburn's for me; playing 3 sets and sometimes longer than expected but hey that's my job as a DJ and I absolutely love it". While performing the gear he uses is pretty much standard. He adds, "To be honest but I try to do a lot with the gear I have. I don't like having a programmed set or a lot of pre-made mashups, I prefer to do it all live. In the sense, I like to fully DJ to the extent that is possible in a live capacity. Rekordbox is something I use heavily to add cue points, notes of songs, make sure the keys fit and add in pre-programmed loops so it saves me time during live sets".



Favourite Gear

Player: Pioneer CDJ 1000 MKII

Mixer: Pioneer DJM 900 Nexus 2

Headphones: Pioneer HDJ 2000 MK2

DJ Shadow Dubai

DJ Shadow Dubai is a multi-award winning Bollywood DJ who has officially produced for Pitbull, Sean Paul, Guru Randhawa, Badshah, Bohemia and more and collaborated on remixes with the likes of Jay Sean, Yo Yo Honey Singh, Arijit Singh, Jazzy B, and Diljit Dosanjh. Donning the title, Master of Global Collaborations, Shadow has brought together powerhouse performers; Sean Paul and Badshah to collaborate on his production, 'Move Your Body'. 'Aaja Ni Aaja' with Bohemia, which reinstated Shadow's numero uno position as a musician in the Urban Asian market followed by this single. Over the years, DJ Shadow Dubai has performed for large crowds all over the world, has featured in Bollywood Soundtracks and performed for megastars. Though talking about his memorable event he says, "It's been quite a journey but if I had to choose a single event I think performing at Imagica on the Mumbai-Pune highway for a New Year's Eve show was one event I will never forget. There was a crowd of over 15 thousand people; from families to youngster, it was such a diverse audience that I got to perform for and having people come from all over just to watch me headline that event was the best feeling in the world and an absolutely thrilling experience". DJ Shadow will next be performing at the Flying Saucer in Lucknow with an audio-visual set along with lighting, special effects, and great music to give the complete Shadow experience. The set will include a DJM 900 Nexus 2, CDJ2000 Nexus 2, CO2 jets, CO2 gun, confetti shots, and a 350-400 sq.ft. LED wall. As a DJ, Shadow loves to treat his audience with an element of surprise. "Every single show, I put in a lot of thought behind creating a unique experience whether it's through songs people may not have heard or doing things differently every time I go up on stage. I aim to take my audience on a journey where even though they're standing in the same place, they feel like they've been on this whole ride by the end of my set and that's why it's called the 'Shadow Experience'. A secret that DJ Shadow Dubai shares is to always acknowledge that your audience knows best and be able to read the crowd and cater to their tastes.



Favourite Gear

Player: Pioneer CDJ 2000 Nexus

Mixer: Pioneer DJM 900 Nexus 2

Headphones: Pioneer HDJ X 7

DJ Suketu

DJ Suketu has churned out some of the most successful remixes of all time. Remixes like Bin Tere Sanam, Woh Lamhe and Kya Khoob Lagti Ho became an overnight sensation. He nurtured his skills with DJ Cut Master Swift at the DMC headquarters in Burnham and he went on to win the DMC in 1999. He has collaborated with singer and composer Atif Aslam and recreated Woh Lamhe which till today remains an eternal favorite of millions. Suketu also performed at the closing ceremony of the Commonwealth Games in Delhi alongside Shankar Mahadevan, Sunidhi Chauhan, Sivamani and Raghav Sachar which is also one of his most memorable events. Over the years, Suketu has worked with many composers & musicians on numerous projects. Amongst them are Pritam, Adnan Sami, Himesh Reshamiya and Shankar-Ehsaan-Roy, Salim Merchant including international artists like

Rida, Sean Kingston, and Iyaz. Next on the list for Suketu is a party for Sony where he will be setting up with a Pioneer DJ console set up with flying sound and LES console and back drop set up. A tip that he would like to give new DJs is "Always, no matter what, which and where the event is, go prepared and on the other hand be open and adjusting to the situation and crowd". When performing Suketu never forgets his Stealth 128 GB Pen Drive with his music playlists bounced/exported from



RekordBox with his set hot cues and loops. All the tracks are analyzed and sorted key wise so he can do harmonic mixing as and when possible.

Favourite Gear

Player: Pioneer CDJ 2000 NXS2

Mixer: Pioneer DJM 900 NXS

Headphones: Pioneer HDJ X10

Microphone: Shure SM 58

DJ NYK

DJ NYK aka Nikhil Sahni is a DJ/Producer/Radio Host/Visual Artist & Coach who has successfully brought together two disparate worlds of Bollywood beats and Electronic Dance Music. Blending and transforming both traditional and unexpected sounds, he has synthesized and resynthesized the two in ways that most artists cannot comprehend.

Termed as the 'King of Remixes', DJ NYK has won many awards and accolades. He is the first DJ to introduce music Podcasts power-packing it with the greatest and latest Bollywood and Dance music. DJ NYK has performed and played at venues all across the globe including Club MTV parties and Bollywood concerts. His first International show in Hong Kong at Club Sugar at the young age of 20 and his concert show at Dubai World Trade Center with more than 10,000 people in the audience are some of his memorable events. DJ NYK's next event is a college festival in Odisha where he has designed a special arena called 'Electronyk Show' where he will be using his unique element Synchronized Visuals. "The show will not just be music beyond genres but also synchronized visuals and lighting. I have a separate rider for Electronyk Show with a fixed number of lighting fixtures, special effects/pyro techniques, & an LED wall for visuals usually ranging from 40 feet wide to 20 feet tall," he said about the event. One tip DJ NYK would like to give young enthusiasts is "To mix harmonically and in key when playing Live. This technique not only makes your DJ sets flow better, but will also sonically improve your sound since you are playing tracks that compliment each other".



Favourite Gear

Player: Pioneer CDJ 2000 NXS 2

Mixer: Pioneer DJM 900 NXS 2

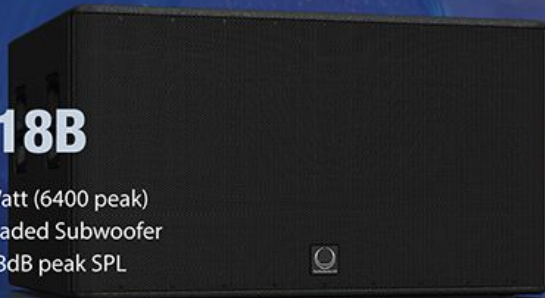
Headphones: V-Moda Crossfade LP Wireless

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Dev Electronics – India's most preferred pro audio technologies partner!

Since the last three decades, Dev Electronics has led the constantly evolving pro audio industry by procuring products that deliver industry-leading quality, reliability, and performance. With unparalleled knowledge and expertise, Dev has become the foremost choice for rental companies, systems integrators, and music professionals having created an ideal one-stop sourcing solution for the industry.

Very few audio companies are aggressively pushing partner brands into the market with quite so much energy and zeal. Spearheaded by Directors **Vinod Devjani, Kirti Devjani, and Dilip Devjani**, the tech-savvy team delivering consistent after-sales support and improved user

experience has ensured that rental companies, systems integrators, and music professionals turn to Dev Electronics for superior quality, ease-of-installation, and versatility.

ABOUT DEV ELECTRONICS

Operating out of two key locations in India, namely Mumbai (Head office) and New Delhi, DEV ELECTRONICS has built an unmatched legacy as the comprehensive technology solutions provider for all professional audio requirements across application segments.

The Dev Electronics story finds its roots in humble beginnings. Starting off as a small-time sound solution provider, Dev Electronics has now grown to become India's leading name for pro audio solutions across industry sectors like live sound rental, system integration, install sound, DJ

applications and music production; with phenomenal growth and progress in the B2B sector. In terms of distribution and sales of world class pro audio brands, territorially and across India.

Currently, Dev Electronics carries an overabundance of product lines ranging from boutique and high-end world class technology to entry level gear, providing ready accessibility to choose a truly customized solution that suits every pro audio need

perfectly. Moreover, the company offers this widest range of professional audio products at unmatched prices, backed by an unparalleled sales experience, with superior after-sales customer service and technical support. The company's in-house team of highly experienced and highly skilled professionals offer valuable insight into the products they sell, with the Dev team assisting with all kinds of project needs

Success can be elusive for many trying to make their presence felt in an increasingly crowded pro audio marketplace of channel partners, distributors, and dealers. This naturally entails embodying a certain boldness of spirit, which down the years Dev Electronics has proved it has in abundance.

In this article, PT traces how Mumbai based Dev Electronics grew from an ambitious younger player in the live sound industry three decades ago to one of the largest single-window source point for rental companies, installers and music production professionals in the pro audio market.



Director Dilip Devjani with his team at Dev Electronics



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and requirements — big or small. At the same time, Dev Electronics boasts an extremely strong network of dealers and channel partners spread across the expanse of the country. The company's continual growth and success can be largely attributed to its superb stocking capacity and timely delivery of products, all thanks to its unparalleled network of distribution and supply that extends across the length and breadth of the country. In addition, its associate companies — **Dev Pro Sound, Dev Pro Sales, and Proline** — have a crucial role to play in this mix.

Dev Pro Sound is the associate arm of Dev Electronics located in Delhi, which manages the company's operation of distribution, sales, support, and service of the entire range of professional audio brands and products across the entire Northern and North Eastern region of India.

Dev Pro Sales is the associate arm of Dev Electronics located in Mumbai, which manages the company's operations of dealing in Audio-Video Solutions (Pro AV solutions), Automation, Projectors and Projector peripherals, Studio Applications, Prosumer Applications (High End Home Theatres etc.), CCTV Camera and other Prosumer based products.

Proline is the associate arm that meets Dev Electronics' goal to represent and distribute fresh and new world class professional audio brands, both territorially as well as across the country. At the current moment, Proline is the official distributor of *Wharfedale Professional* on a PAN India basis and *Krystal Cables & Connectors* territorially for the western region.

Dev Electronics has also garnered repute for providing quick and efficient after-sales service thanks to its in-house service and repairs facility, aptly named Dev Tech. Dev Tech is responsible for upholding the company's high-standards of customer service and support assurance.

BRAND POWER

As sole distributors of power brands like *PowerX* and *Wharfedale Professional*, premier sales partner of brands like *Eighteen Sound, Shure, Sennheiser, Behringer, RCF, Allen & Heath, NX Audio, Dynatech*, etc., and authorized regional distributors for brands like *Pioneer DJ, Yamaha, Harman*

Group, QSC, Studiomaster and more, Dev Electronics has the perfect blend of an ever-expansive product portfolio and richly experienced personnel, providing users with ready accessibility to choose from an extended product line.

"Dev Electronics has been our partner for over a decade now. Their Harman Professional Solutions product mix mainly comprises of retail products such as P.A. Systems (portable and otherwise), microphones, signal processors, crossovers, aside from a sizeable share in the install-driven product categories as well", commented **Prashant Govindan**, Sr. Director, Harman Professional Solutions, India & SAARC.

ENVIALE LIST OF INVENTORY

The company's inventory includes everything from amplifiers, line arrays, mixers, signal processing units, DJ gears like controllers, media players, mixers, turntables, and DJ headphones to headphones specialized for studio, studio monitor as well wireless. Studio gears include samplers, synthesizers, studio microphones, and studio monitors.

Dev Electronics was responsible for the sale of Asia's first Tour One Set from PioneerDJ to **DJ Chetas** - a monumental achievement that has established Dev Electronics as a preferred destination for purchase of premier DJ products from PioneerDJ.

Furthermore, FocusVision purchased the VTX 25 set up from Dev, with **Sachin Nasre**, MD & CEO commenting, "We have been dealing with Dev Electronics since the past six years and as always they have been really helpful in whatever we have purchased and have always delivered on time. When we purchased the VTX 25, Dev offered me a credit period of 18 months or so to pay the amount, so in that way they have helped us a lot".

Zura Braganza of Mumbai based premier rental company Rich Audio is another happy customer, as he speaks of his recent purchase of the Soundcraft VI3000 console from Dev Electronics saying, "The thing about choosing to purchase from Dev Electronics is that you have so many options of amazing world-class gear to choose from. Moreover, the team is very helpful and accommodating in every aspect. In addition to choice, they give you every opportunity to have a look and feel of the product through demos, and as a

customer that's very reassuring. It's always a great experience working with Dilipbhai and the entire Dev Electronics team!"

Potential clients and interested buyers can enjoy the look, feel, and performance of these products at Dev Electronics' in-house demo room, which is a plush acoustically treated space that houses products from the various brands that Dev represents. The plush demo room has often played a decisive role in helping customers lock down on their purchase decisions; and has helped Dev Electronics in winning the trust and faith of buyers and audio professionals, as it has given them the most appropriate space and opportunity to test the performance of a product before finalizing purchase decisions. The demo room has also played host to several seminars, workshops, and informative sessions that Dev has organized in conjunction with their pro audio brand partners; with the sessions always enjoying a very encouraging response in terms of crowd participation and purchase inquiries.

TECHNICAL SUPPORT

In addition to the well-stocked inventory and complete pre-sales and sales support; customers across the country enjoy prompt assistance from Dev with seasoned technical experts providing timely on-site support whenever the need arises. The company's well-equipped inventory of spares and components coupled with state-of-the-art maintenance and utility infrastructure means that customers can access product support at any time with the assurance of timely service and repairs.

"Electrocraft has been dealing with Dev Electronics for the past 20 years. Over the years we have found Dev to be extremely reliable, friendly and most importantly service-oriented with competitive pricing", says **Roger Drego**, Managing Director, Electrocraft.

Manish Mavani, Director, SNL Pro, who has been doing business with Dev Electronics for close to five years in audio products, mentions them as being extremely professional and reliable adhering diligently to timely deliveries and commitments.

CUSTOMER FIRST

Consistency in providing an excellent business experience has led to Dev Electronics expanding its reach to encompass all four regions of the country. Today, Dev boasts

of an unparalleled network of dealers even extending their reach to Tier 3 and Tier 4 cities. They have been enjoying access to an expansive list of channel partners that include renowned DJs, veteran sound engineers, premier system integrators, reputed installers and music production specialists all of whom choose to do business with Dev repeatedly.

"Since the past 14 years, we have been dealing with Dev Electronics in brands like JBL, Yamaha, Shure, Sennheiser, AKG, JTS, and many more", commented **Prakash Ahuja**, Proprietor, Roshini Audiomatics.

The ideology of 'putting customers first' has ensured that clients from across the country expect a uniform unparalleled business experience that's characteristic only to Dev.

Commenting on his experience dealing with Dev Electronics, **Vipul Patel**, Managing Director, Systems Architect & Engineers, says, "We have been dealing with Dev for close to five years now and have found them to be very prompt, to the point, excellent and with competitive prices."

INFORMATIVE SESSIONS & WORKSHOPS

It comes as no surprise that Dev believes in establishing a truly meaningful connection with not just its customers and partners, but with the industry at large; Dev Electronics has consistently made a conscious effort to interact with industry personnel within their local market. The company has looked to provide qualitative benefits to industry professionals across the country by often conducting roadshows and informative workshops for brands like Harman Professionals, Yamaha, Pioneer DJ, Power X and Wharfedale, commonly held in partnership with their local dealers, in an effort to spread awareness about the enhancements in products and technologies, and to share vital information on trade skills and aptitude.

For instance, QSC and Dev Electronics proudly launched the new KS118 high output active subwoofer that promises impressive low frequencies for mobile entertainers, AV production, and clubs/venues applications.

(Continued on page 64)

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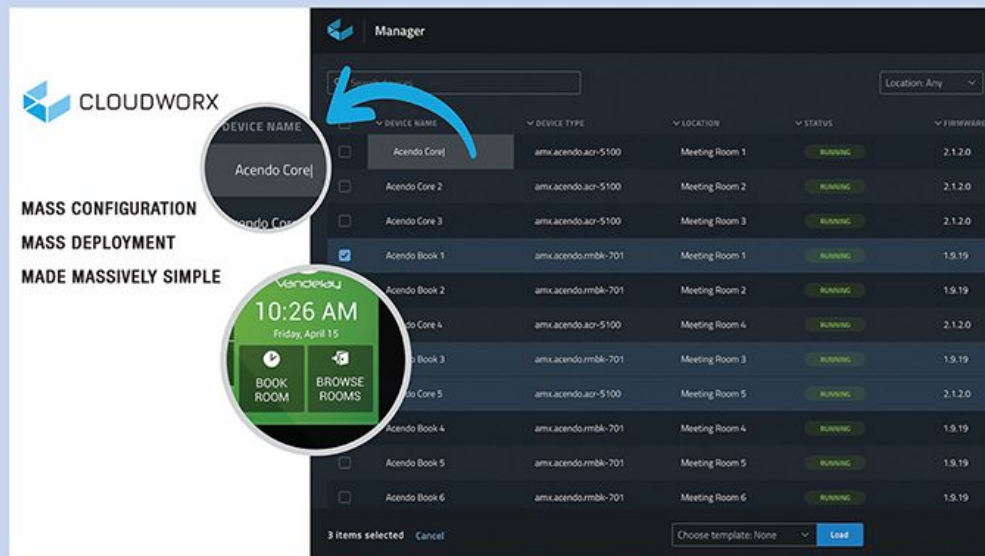
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HARMAN DEBUTS ITS CLOUDWORX MANAGER

Harman Professional Solutions has announced the introduction of CloudworX Manager, the first from its cloud-based CloudworX Software. CloudworX Manager is browser-based, offering system integrators the ability to install, configure, and maintain several devices, without having to configure the devices individually or locally. The platform is being designed to unify the configuration, deployment and monitoring of Harman's audio, video, control, and lighting systems.

The platform will initially support devices like the AMX by Harman Acendo Core meeting space collaboration system as well as AMX Acendo Book scheduling touch panels. More devices are being scheduled for inclusion, in upcoming CloudworX releases.

Some of the features of the CloudworX include support for private or single sign-on accounts; comprehensive sorting, filtering, and searching of discovered devices; simultaneous configuration of like or unlike devices; simple connection of local installations using CloudworX Gateway software;



CloudworX Manager is browser-based, offering system integrators the ability to install, configure, and maintain several devices, without having to configure the devices individually or locally

device firmware management; and template creation and deployment. One of the key objectives of the platform is to ensure a safe, secure, and reliable environment that users feel confident and comfortable using. "CloudworX Manager represents

a first look at the power of the CloudworX platform," said Iain Gregory, director of software at Harman Professional Solutions. "With a simple firmware update, CloudworX brings mass configuration to the existing Acendo Book and Acendo

Core devices. As more products are supported and additional software applications are added to the suite, CloudworX will eliminate integration complexity and redefine the way that AV systems are configured, deployed, and managed."

TANNOY LAUNCHES CVS 1.0 SERIES IN-CEILING LOUDSPEAKER RANGE

UK-based loudspeaker manufacturer Tannoy has introduced its new CVS 1.0 series of in-ceiling loudspeakers intended for a wide variety of applications such as **restaurants, hotels, houses of worship, retail, educational facilities, and business** of all types that require a combination of excellent music and speech sound quality and exceptional reliability. The CVS1.0 series combines Tannoy's class-leading design pedigree and world respected driver technology to produce a new range of in-ceiling loudspeakers designed for cost critical

applications without compromising the high level of performance users expect from Tannoy.

The line-up consists of six models that are all available in semi-matt black or semi-matt white finishes. All deliver the power handling, wide frequency response and low distortion typically found in more expensive products. Each model has a powder-coated aluminum mesh grille with dust protection. The drivers are mounted in a UV and weather resistant UL



94-V0 and 94-5VB ABS front with a plated steel fire can enclosures. In addition, each model has EN54-24 certification for detection and fire alarm systems, UL1480 certification for fire protected signaling systems and UL2043 certification for air-handling spaces. The CVS 301 is designed to provide superb audio performance and features a three-inch polypropylene

full-range driver with butyl rubber surround for enhanced durability. The CVS 401, CVS 601, and CVS 801 feature four, six and eight-inch coaxial polypropylene drivers with butyl rubber surround and ferrofluid-cooled soft-dome high-frequency drivers that provide class-leading sound quality. The CVS 801S in-ceiling subwoofer uses an eight-inch polypropylene long-excursion driver that delivers weighty extended and controlled bass. The low pass baffle design allows the use with other loudspeakers without the need for a crossover.



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ITZHAK BAMBAGI APPOINTED AS NEW CEO OF KRAMER

Kramer Electronics has announced the appointment of **Itzhak Bambagi** as Chief Executive Officer, effective immediately.

The appointment reinforces Kramer's position as a leader in pro AV innovation as the company aims to further drive its software and cloud-based initiatives to both support and adopt new business models, better suited to address the needs of the evolving AV industry.

Bambagi has a proven track record of exemplary leadership serving in key executive roles at IBM and Digital/Compaq over the past 18 years. Among the various projects and technologies on which he worked, he also led IBM's IT transformational experience using cloud technologies and various digital workplace initiatives across EMEA.

The appointment heralds an exciting time for both Bambagi and Kramer. "I am both proud and honored to be joining Kramer as their CEO," declared Bambagi. "For the past

4 decades, Kramer has led the way with advanced AV solutions and the Kramer brand is known and respected worldwide. I have been a long-term admirer of Dr. Joseph Kramer's dedication, work, and vision and look forward to working with the global Kramer teams to further enhance the company's evolution and making Kramer even greater."

With a strong history in software and cloud developments, Bambagi will be instrumental in driving Kramer's ethos of advanced pro AV solutions utilizing tighter integration, software, and cloud driven functionality.

He explains: "Bringing software and cloud components further into the pro AV arena is the next step. By allowing remote support and management, we can bring standard uniformity to multisite installations, wherever they are in the world. Hassle-free solutions and an outstanding user experience are key and my IBM experience will

assist in delivering technology that 'behaves' in ways that are wholly familiar to – and expected by – IT departments."

"The way customers consume IT and AV in an IoT enabled world will have a tremendous impact on our industry. Converging technologies bring a multitude of challenges and opportunities with software-driven solutions, cloud power, and scalability as well as opportunities for new business models, such as AV as a Service (AVaaS).

We aim to reinforce Kramer as the 'go-to' brand for pro AV remote management and cloud advancements. We will, of course, continue to develop our pro AV innovation and support, educate, and collaborate with our loyal customer base which has made Kramer so great for the last 4 decades."

On announcing the news, Dr. Joseph Kramer, Founder, President and Chairman of Kramer, said: "We



Itzhak Bambagi CEO of Kramer

are incredibly excited to share this fantastic appointment. Itzhak's decades of experience in sales, service and operational management paired with his deep understanding of advanced networking and cloud technology will be invaluable assets as Kramer meets the continuing challenges of the converging pro AV and IT industries."

STUDIOMASTER PROFESSIONAL LAUNCHES MUSE 61 MULTIFUNCTIONAL PORTABLE PA LOUDSPEAKER

Studiomaster Professional has always been at the helm of providing cutting-edge products that strike an impeccable balance between high-quality, performance, and cost-effectiveness. With this ethos at its core, the homegrown professional audio brand launches the Muse 61 - a compact, portable, and versatile PA loudspeaker.

Designed to be multifunctional, the loudspeaker is housed in a sturdy PP+ABS cabinet and it delivers a loud and clear sound output. The Muse 61 integrates a built-in high-capacity 2200mAh rechargeable Lithium battery. Additionally, the loudspeaker can also be powered using a commonly-available 12V DC car/motorcycle battery. This makes Muse 61 truly India-ready, especially in non-urban areas where poor power supply and frequent outages are regular.

The portable loudspeaker also ships with a handheld wireless microphone that works seamlessly with the VOX (voice) priority feature. This allows the Muse 61 to be used for addressing a small group of people, bhajan and kirtans, social gatherings or for karaoke applications.

One of the most useful features of the Muse 61 is the integrated USB/SD card MP3 media player and recorder with Bluetooth for wireless streaming from devices such as smartphones, tablets, and laptops. The media player ships with an Infrared (IR) remote for wireless playback control. The compact loudspeaker has abundant wired connectivity options including dual ¼" jack mic and a 3.5mm aux input. There's also a built-in echo/delay EFX processor and 2-band EQ to let users get creative while performing.

The front panel of the Muse 61 loudspeaker sports an attractive

multicolor LED light that can be switched ON or OFF as required. The unique design of the loudspeaker blends an easy carry handle and Studiomaster Professional provides an extra detachable sling belt for easy portability. With so many features packed into a compact build size, the Muse 61 is a nifty product ideal for a wide variety of mobile outdoor PA applications. The loudspeaker can easily find its place in **houses of worship, learning and training centers, small meetings, or**

gathering and even for recreational purposes in homes.



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GENERATION AV AND MARTIN AUDIO ADD SANAK PANDIT TO TEAM

Start-up Generation AV, which represents Martin Audio in the APAC countries, has announced the appointment of **Sanak Pandit** as Applications Engineer.

Based in Bangalore, India, Pandit has been working in the audio industry since he was 14. He completed his studies at the Bangalore School of Audio under **Vishnu Pandit**, a technical expert in the touring and rental market in India. In addition to working with his family companies of V&P Sound and SD Audio, Sanak Pandit has also served as a freelance sound



engineer for a number of Indian artists.

Trained and certified in most of the industry's leading advanced networking platforms, Pandit, in recent years, has led many training courses from the Basics of Audio through to System Design, Measurement, and Optimization for many rental companies and engineers in India.

David McKinney, Generation AV founder, said: 'I am very excited to have Sanak in the team; he has the technical abilities to support all the brands in Generation AV

and I believe will be a great asset to our business in Asia. With his strong background in the touring market he is able to hit the ground running.'

Martin Audio MD, **Dom Harter**, added: 'Following the appointment of Generation AV, it is reassuring to know that Martin Audio sales support in the APAC territories is in such safe hands with the appointment of Sanak. This is a developing region for us and it is vital that our customers know they have such an advanced level of on-the-ground backup.'

SHURE LAUNCHES NEW VERSION OF MXA910 CEILING ARRAY MICROPHONE

Shure has announced its new version of the MXA910 Ceiling Array Microphone -- MXA910W-A -- A Ceiling Array Microphone with IntelliMix DSP for installation in 24x24 inch ceiling grids.

The new MXA910 variant includes the same technology and performance as all prior versions. Available in white, the MXA910W-A can be painted to suit the design aesthetics. The new variant is expected to ship in December.

The new mounting option joins a wide range of other mounting options including suspension mount, VESA pole-mount, and hard ceiling mount, so consultants and integrators have a range of solutions compatible with any meeting room.

This new MXA910 variant includes state-of-the-art array microphone technology with Shure IntelliMix DSP -- comprising Acoustic Echo Cancellation, Noise

Reduction, and Automatic Mixing -- for exceptional, unprecedented control. The new patent-pending

Autofocus Technology continually fine tunes the position of each lobe in real time.



Shure MXA910A Ceiling Array Microphone

The MXA910 with IntelliMix DSP features outstanding "ease of deployment" capabilities. These include simplified templates and Autofocus Technology for immediate out-of-box setup. Designer software compatibility provides unmatched ease of configuration, so installations can happen more quickly and efficiently.

It can directly connect to a hardware or software codec using the DSP embedded in the ceiling microphone. When used with a Shure audio network interface (ANI), it provides users with a simplified room solution that provides a microphone and DSP in one cost-effective package.

Integrators can also incorporate multiple MXA910 microphones and the Shure IntelliMix P300 Audio Conferencing Processor for simplified room expansion and scalability, thanks to the distributed DSP architecture.

CLEARONE ANNOUNCES NEW CONSOLE AI CONFIGURATION SOFTWARE

ClearOne, the global provider of audio and visual communication solutions, has released its new CONSOLE AI configuration software with Audio Intelligence built in -- making AV practitioners more efficient by saving time.

Enhanced visualization dramatically streamlines routing, design, and reviews. New visual language elements include drag-and-drop,

boundary boxes, mixer blocks, and custom routing lines.

Audio channel groups can be created -- then expanded for detailed control or collapsed for simplified viewing and control.

A new AI

Workflow Checklist guides you as you build your system to make sure that you never miss a step; and the innovative AI Project Audit checks your design and reports errors and warnings to alert you of potential

problems.

In-line renaming allows you to change channel and channel group labels quickly without going to the Renaming Tool. In addition, C-Link capacity is now increased to 150 channels allowing larger systems to be created.

CONSOLE AI supports ClearOne's latest devices, including Versa Pro CT and the new Bluetooth Expander.



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SUN INFONET ROADSHOWS TAKE PRO-AV INDUSTRY BY STORM

Sun Infonet continues to remain dedicated to educating the Pro Audio professional of the country. Adding to their growing number of seminars, Sun Infonet

recently concluded a series of highly successful workshops, symposiums, and masterclasses.

- **Allen & Heath Mixing Masterclass**
Sun Infonet recently hosted a

Mixing Masterclass for Allen & Heath led by **Dave McDonald**, a renowned sound engineer who has worked on world tours with the likes of Adele, Sigor Ros, Florence, and the machine

and Frank Ocean. The one-day event took place in Mumbai and Bengaluru and was attended by a mix of 30 to 32 audio/sound engineers, owners of rental companies and audio engineering students.

The workshop was divided into three parts, starting with a pre-show set-up, including how to design the showlife, the challenges that could arise and what made McDonald choose dLive. The second part of the workshop showed how to perform a soundcheck, mixing instruments, configuration, placement of instruments, creating snapshots and grouping of channels. The Masterclass ended with a presentation on tips on how to approach a show and make it successful, including the use of FX engines and changing screens.

Talking about the event, **Amar Dhar**, a sound engineer from Crescendo in Dimapur, said, "I have learnt a lot from Dave McDonald. This Masterclass was different from the others I have attended in the past. Sun Infonet focused only on the content and not on the mixer. Thank You team Sun Infonet for conducting this 'Mixing Masterclass' on Live Sound Mixing".

• Sun Infonet Symposium

Sun Infonet at The Capitol, in Bengaluru, conducted a symposium displaying the complete range of audio solutions from Shure, Meyer Sound, Allen & Heath, Quest, and Audio Focus. System integrators and Audio Video consultants attended the symposium from Chennai, Hyderabad, and Bengaluru.

The main objective of the symposium was to make the system integrators aware of all the brands and make them understand that the gear can be used in all installed and live applications.

• Shure Wireless Masterclass

A Wireless Masterclass by Shure was conducted by Sun Infonet at The Lalit in Mumbai was led by Mr. **Andrea Granata**, Product Marketing Manager, Shure MEA. The two days Masterclass in Mumbai saw participants who are working as Sound and Audio engineers with bands, singers, Bollywood artists, music composers, and owners of

(Continued on page 55)



Allen & Heath Mixing Masterclass, Mumbai



Allen & Heath Mixing Masterclass, Bengaluru



Sun Infonet Symposium, Bengaluru

CLEARONE LAUNCHES NEW WALL-MOUNT BLUETOOTH FOR ITS PRO AUDIO MIXERS

ClearOne, a leading global provider of audio and visual communication solutions, has announced the availability of its wall-mount Bluetooth Expander.

This new module enables Bluetooth audio conferencing and

name can be customized.

P-Link makes wiring easy on both CONVERGE Pro 2 and Huddle systems, and the new Bluetooth Expander features wall-mount design for convenient room access (single-gang electrical box).



streaming from mobile devices to ClearOne's CONVERGE® Pro 2 and Huddle Audio DSPs.

NFC Tap-to-Pair allows fast and simple connectivity with mobile devices, and the Bluetooth pair

The module's Bluetooth 3.0 compliant interface supports industry standard profiles for audio, and it has a great range of up to 150 feet (45 meters).

MACKIE LAUNCHES ALL-NEW PROFXV3 SERIES

Mackie announces the complete redesign of their most popular analog mixer series, ProFXv3 Professional Effects Mixers with USB. Mackie has taken everything customers love about the ProFX Series and cranked it up to 11. Now with Mackie's renowned Onyx mic preamps, GigFX Effects Engine, 2x4 24-Bit / 192kHz USB recording, and a new modern design. Not only are these great for live sound in clubs, bars, and venues, they are the perfect choice for home studios, content creators,

and 30-Channel ProFX30v3.

Mackie's new partnership with Avid gives ProFXv3 users an incredible benefit and value. Now included with the purchase of any ProFXv3 model is Pro Tools | First, plus the exclusive Mackie Musician Collection featuring 23 Avid plug-ins. In addition, users will also get the multi-award-winning Waveform™ OEM DAW software with their DAW Essentials Collection of 16 plug-ins. The complete package offers an incredible number of powerful



and live streaming. The ProFXv3 Series is available in the 6-Channel ProFX6v3, 10-Channel ProFX10v3, 12-Channel ProFX12v3, 16-Channel ProFX16v3, 22-Channel ProFX22v3,

creative and mixing tools to add to any user's plug-in library. In addition to ProFXv3, many other Mackie products will now be including Pro Tools | First and Waveform bundles.

SUN INFONET ROADSHOWS TAKE PRO-AV... (Continued from page 54)

renowned rental companies.

The Wireless Masterclass included comprehensive training regarding RF technology, digital wireless systems, and RF coordination. It provided an ideal opportunity for participants to gain in-depth

experience with all the applications and the usage of the gear. The events concluded with a corporate Cocktail Party.

• Shure In-Ear Monitor Workshop

A workshop by Shure on the Advantages of In-Ear Monitors was

The workshop focused on the advantages if In-Ear Monitors over stage wedges, how to select the right pair of earplugs, the correct way to set up In Earplugs for gigs, and ways to protect your eardrums.

"Hearing when chai met toast on

workshop has given both seasoned musicians and upcoming talent the right perspective of technology and its benefits".

Neeraj Chandra, Director, Sun Infonet Pvt Ltd said, "Sun Infonet Pvt Ltd has always been focussed



Shure Wireless Masterclass, Mumbai

knowledge of the principles of RF technology, networking and audio transportation, and Wireless Workbench (WWB).

Both events, Sun Infonet Symposium in Bengaluru and Shure Wireless Masterclass in Mumbai saw attendees getting hands-on

conducted by Sun Infonet at the KM College of Music and Technology, Chennai, which was formed by A R Rahman in 2008.

Barry Kassab from Shure carried out the workshop, which attracted musicians, independent artists, brands, and music students from KM College.



Shure In-Ear Monitor Workshop, Chennai

the In-Ear Monitors the way the band hears it during performances is an experience to remember", commented Rameetha Venkatesh, Bass Guitarist and Student of KM

About the workshop, Jayakaran Samuel, Senior Live Sound Manager, South India, Sun Infonet, said "The

on educating and connecting with the users and what better way to do so through various road shows that we have been doing for every vertical along with the OEM's. This helps to understand the requirement and focus on what is expected by the user".

ADAMSON SYSTEMS INSTALLED AT ANTISOCIAL BY MUNRO ACOUSTICS

Adamson System installs began with India's leading integration company, Munro Acoustics putting up a permanent setup of the **IS10 line array loudspeakers and IS119 subwoofers with Lab.gruppen D120:4L amplifiers** at AntiSocial in Mumbai.

AntiSocial, under the umbrella of one of the biggest restaurant and nightlife groups in India, was born to create a space that was the antithesis of "bar gigs", a place dedicated to expression, deep in the underground of Indian contemporary culture. After three years of being the epicentre of local scenes in Mumbai and Delhi, the idea became bigger than the spaces it was confined to.

Better than ever, AntiSocial is returning to Mumbai at Lower Parel and wanting to invest in a new audio system to best fit their ambience, several top-tier brands were hired

every weekend for performing DJs from across the world, with the Adamson setup being hired from **Rich Audio India**.

"The Adamson outplayed everything and made our decision an easy one," comments the lead audio engineer for the venue. "It delivered immensely detailed and clean sound with consistent sonic impact at all sound levels. Adamson put a smile on our face, we wanted to hear more, and we wanted to keep it."

Specialising in the design of high end music, film, and broadcast studio facilities, **Kapil Thirwani** from Munro Acoustics says, "The IS-Series offers pristine audio with a sleek look and unobtrusive rigging that keeps the focus on the aesthetic of the space and the music."

Karan Nagpal, Director of Adamson's India distributor Sonotone says, "The IS10 has a smooth



Kapil Thirwani and Karan Nagpal

frequency response and precise reproduction so it is perfect for the

versatile needs of the venue. We are elated that they chose Adamson."

XILICA APPOINTS SENNHEISER AS DISTRIBUTOR FOR INDIA

Xilica, a global leader in digital signal processing technology for AV and installed sound, has announced the appointment of Sennheiser India, the local subsidiary of Sennheiser electronic GmbH & Co. KG, as its distributor for India effective December 11, 2019.

Based in Gurugram, Haryana, Sennheiser India will sell, stock and support the full range of Xilica-branded DSP solutions including the award-winning Solaro Series for fixed installation and the definitive X2 Series for live sound, alongside the XTouch and XWP peripheral product lines.

Managing a sizable network of

leading channel partners across its distinct markets, Sennheiser India will offer Xilica products to qualifying dealers across all Indian states, backed by both the local support of the distributor and Xilica's regionally-dispersed global support teams. As infrastructure development projects continue to grow in the Indian market, alongside increasing technological advancement, Xilica and Sennheiser India welcome this new, striking collaboration to better serve their joint customers operating in professional audio and integrated systems with advanced, cost-effective DSP products that fit the business

needs of today's integrator.

"We're delighted to welcome Sennheiser India to our fast-growing global distribution network," stated

next-generation Solaro & X2 DSP solutions. Integrators across India have already found incredible results with our cost-effective, all-modular

XILICA

SENNHEISER

Barry Steinburg, Regional Sales Manager, Xilica. "As we continue to move into new markets and grow our presence in existing territories, we're fueled by the continued success of and demand for Xilica's

DSP range and now, buoyed by the outstanding network, capabilities and sophistication of the Sennheiser India team, we're excited to be offering the best possible experience to our customers locally."

YAMAHA UC SCALES FUTURE OF COLLABORATION WITH INTEL UNITE SOLUTION

The partnership brings Intel Unite App-Enabled meeting control to Yamaha UC's USB Audio and Video Solutions

Yamaha Unified Communications has announced its CS-700 Video Sound Collaboration System and USB speakerphones now integrate with Intel Unite, a simple, customizable wireless collaboration solution that enables users to start meetings quickly and securely — no need for dongles, adaptors, or cables. From the Intel Unite app, users can efficiently control Yamaha audio

and video products for even more seamless meetings and greater productivity.

"The collaboration spaces are some of the most valuable environments as people increasingly engage with a growing number of remote participants. However, without the appropriate technology



to support users and IT staff, productivity and ROI can sink quickly for these rooms. We developed our USB audio and video products to deliver state-of-the-art audio and video performance out of the box, without the frustration, expense, and time spent deploying, operating, and managing disparate

(Continued on page 59)



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WORLD-CLASS AUDIO CONFERENCING CAPABILITIES FROM BOSE PROFESSIONAL AT MINTO HALL

"We take pride in telling the world that the heritage Minto Hall has been converted into a first-class international standard convention centre. We have successfully converted a 100 year-old heritage building into a world-class convention centre, ensuring that it did not lose its heritage character while equipping it with ultra-modern conferencing amenities. We are proud of the rich heritage that has been conserved" quoted **Hari Ranjan Rao**, Principal Secretary of MP Tourism as he refers to the state-of-the-art conferencing capabilities at the newly renovated Minto Hall in Bhopal, which has been made possible thanks to leading-edge and future-ready solutions from Bose Professional.

"Minto Hall's restoration plans included provisions for conferencing where patrons would be welcomed to use the premise's world-class facilities. Reviewing the site plan; it was clear that each of the seminar rooms, board room and committee room would need their own dedicated audio infrastructure. The venue's management were clear that they desired a bespoke audio solution that's easy-to-use, quick to setup and low on maintenance; and that could be perfectly tailored to the respective room's physical dimensions and aesthetics with the assurance of a high-quality audio experience. Bose Professional was the obvious choice considering the brand's wide portfolio of technologically advanced products perfectly fit the project's needs" reveals **Aparjit Dhamija** of Fortune Telecom, the project's official audio consultant.

BOARD ROOM

The integration team comprising members from Fortune Telecom

and technical experts from Bose Professional worked closely on guidelines shared by venue management and the project's principal architect **Puneet Sohal**, and eventually narrowed down on the perfect combination of products to suit each of the individual spaces.

The Committee Room and Board Room have been outfitted with an amalgam of loudspeakers, amplifiers and controllers from the FreeSpace and ControlSpace series of products which have been acclaimed across the globe for their dexterity and efficiency in performance value and power-output. Multiple units



The Board Room has been outfitted with loudspeakers, amplifiers and controllers from the FreeSpace and ControlSpace series of products



Vibhor Khanna – Country Manager SAARC, Bose Professional

of the compact and powerful DS40F in-ceiling speakers provide uniform coverage and intelligibility throughout the Committee Room which features a lavish square conferencing table that holds a total

capacity of 24 seated delegates and sports a slew of 12 gooseneck microphone units along with a single hand-held wireless microphone, all of which facilitate high-quality audio and speech pick-up. Processing and system management here takes place through a single unit of the EX-1280C AEC capable DSP along with a single unit of the EX-8ML 8-channel Dante based DSP Input expander, while the power is derived from a single unit of the powerful and efficient PS604A amplifier from the PowerShare series. On the other hand, the Board Room featuring a plush 15-seater rectangular conference table with 9 gooseneck microphones and 1 hand-held wireless mic as the audio pick-up solution, sports the use of multiple numbers of the DS40F in-ceiling speaker units as the loudspeaker solution that assures high quality intelligibility, controlled through the efficient ESP-1240 audio DSP and powered by the nimble iZA 190HZ mixer amplifier.

SEMINAR ROOM

Alongside, the two seminar rooms leverage

Bose' dexterous portfolio of products from the acclaimed Panaray series, with each of the rooms boasting astute individual systems that have been designed to be aesthetically appealing and capably host seminars, meetings, as well as intimate scale music playback. The first room features a loudspeaker setup comprising the 402 series IV loudspeakers along with 502B subwoofers as the primary system with added reinforcement in the form of 310M monitor-speakers, all of which are powered through the ever efficient PowerMatch series PM8500 amplifiers. The second



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

room has been outfitted with the MA12EX column array loudspeakers along with F1 series subwoofers as the primary system, while the 310M monitor-speakers provide further reinforcement, with the entire system powered through PowerMatch series PM8250 amplifiers. Using an amalgam of loudspeaker from the Panaray series across both meeting rooms empowered the technical team to ensure a uniform aural experience that maintains consistent tonal signature and balance, which delivering high performance output that adequately suffices the respective room requirements.

"The Bose conferencing solution integrated at the Committee Room and Board Room is exactly what the space needed in terms

of a system that's not just easy to use and maintain, but also delivers high level of intelligibility and sonic performance. The team have managed to deliver the same kind of world-class sound experience at the seminar rooms as well; and the overall results are positively astounding. We can now proudly assert that Minto Hall provides a truly world-class conferencing and board-room experience, in addition to a magnanimous convention scene!" exclaims Mr Jitendra Bhardwaj, executive engineer at the Madhya Pradesh State Tourism Development Corporation (MPSTDC).

Restoration of the Minto Hall, which was initiated by the state, has witnessed a plethora of improvements being added to each of the individual sections of the property, including

the main hall, which now stands are the primary convention space, outfitted with an avant-garde audio system featuring the revolutionary RoomMatch loudspeakers, PowerMatch amplifiers and ControlSpace processors to facilitate a wide range of MICE activities. In addition to this, five other spaces of varying capacities and specific application purposes that are spread across the three floors of the premise' expanse feature a range of install specific products from the acclaimed FreeSpace and ControlSpace series.

Feedback from the venue's official representatives including Mr Bhardwaj and several others affirms that the sound experience at the new-look Minto Hall has been beyond impressive. Sources confirm audiences including the high-profile delegates

and political leaders who visited the premise during its inauguration, were extremely impressed with the sights and sounds experienced across the entire premise. The honourable Chief Minister of Madhya Pradesh **Shivraj Singh Chouhan**, who inaugurated the revamped Minto Hall, termed the restoration as an 'incredible intervention and an example for restoration of heritage', and exclaimed about the experience of the rejuvenated ambience saying, "Bhopal should feel proud about the intervention."

An ecstatic **Vibhor Khanna**, Country Manager, Bose Professional India, proudly exclaims, "We couldn't be prouder. To be chosen as the official audio solutions partner for such a prestigious project like the Minto Hall, and then to be appreciated by the venue management as well as the high-profile customers that the venue caters to; it is such an honour, and a massive pat on the back. Such feedback is what motivates Bose Professional to keep pushing the boundaries of high-quality pro audio technology, and reaffirms our team's potential to continue providing the best technical service and customer experience out there. Our heart-felt thanks to Mr Dhamija and his team at Fortune Telecom for doing such a fantastic job! It was an absolute honour for us at Bose Professional to be part of such an amazing project."

OPTOMA APPOINTS VIJAY KUMAR SHARMA AS INDIA COUNTRY HEAD

Optoma, a leading designer and manufacturer of projection and audio products, recently announced the appointment of Vijay Kumar Sharma as the country head for its operations in India.

Sharma joins Optoma from BenQ Corporation where he served as the National Business Manager from 2015-2019. Previously he spent three years with Toshiba India as their Business Manager and managed their Channel, Enterprise, and Govt. verticals.

Speaking on the occasion, **Gordon Wu**, Head of Optoma APAC at Optoma, said, "I am pleased to announce Vijay's appointment as Country head of the Group in India.

Vijay brings with him considerable experience of our industry as well as a very strong understanding of our business. With his business acumen and leadership capabilities, I am sure Vijay will be a great addition to the Optoma India executive team and a critical strategic business partner in these transformational times."

On his appointment Sharma said, "Optoma today is undoubtedly the fastest growing projector and large display brand across India. I am extremely honored and happy to take up this new role and now ready to embark upon this new challenge under Optoma's strong business philosophy."



Vijay Kumar Sharma

YAMAHA UC SCALES...

(Continued from page 56)

devices," said **Phil Marechal**, vice president of product management and business development, Yamaha UC.

The Intel Unite solution comprises an Intel Core vPro processor-powered hub that communicates with the app for PC, Mac, or tablet devices and a small server component that orchestrates and manages the solution across devices and hubs throughout the network. From the Intel Unite app, users can mute products and control the unit's volume and camera zoom, right alongside the platform's other capabilities. The app is available now for all mobile devices and operating systems.

DJ Headphones

Spotlight on DJ Headphones launched in 2018 - 2019.

Audio-Technica ATH-M50x

The Audio-Technica ATH-M50x professional headphones are designed to provide accurate monitoring across an extended frequency range. With superior sound isolation and swiveling earcups, the headphones are convenient for one-ear monitoring.

Main Features include:

- Cutting-edge engineering and robust construction
- 40 mm drivers with rare earth magnets and copper-clad aluminum wire voice coils
- Tuned flat for incredibly accurate sound monitoring across the entire frequency range
- Circumaural design contours around the ears for excellent sound isolation in loud environments
- 90° swiveling earcups for easy, one-ear monitoring
- Professional-grade earpad and headband material delivers more durability and comfort
- Collapsible for space-saving portability
- Detachable cable

Technical Specifications:

- Driver Diameter: 45 mm
- Magnet – Neodymium
- Voice Coil: CCAW (Copper-clad aluminum wire)
- Frequency Response: 15 - 28,000 Hz
- Maximum Input Power: 1,600 mW at 1 kHz
- Sensitivity: 99 dB
- Impedance: 38 ohms
- Weight: 285 g (10 oz), without cable and connector



Behringer BDJ 1000

Behringer's BDJ 1000 headphones provide high-resolution performance and wide frequency response with a high dynamic range. The oval-shaped ear cups contain high-resolution capsules that deliver every nuance of your sound. Featuring an ultra-comfortable headband; and an adapter for the connector, BDJ 1000 headphones are compatible with everything from your smartphone - to your mixing console.

Main Features include:

- High-quality and extremely-versatile professional DJ headphones
- 57 mm dynamic drivers provide wide frequency response (10 Hz - 30 kHz) delivering powerful bass and wide dynamic range
- Rotatable, reversible and collapsible ear cups provide flexible and comfortable positioning, regardless of monitoring style
- Over-ear Circumaural design with ultra-soft ear cups and fully-adjustable, cushioned headband
- Closed-back design ensures a consistent listening environment with exceptional sound isolation
- High power handling capability for distortion-free sound at maximum volume levels
- Optimized performance for use with a wide range of professional and consumer audio devices
- The rugged and dependable design ensures long-term durability

Technical Specification:

- Earpiece Design: Over-Ear (Circumaural), Closed-Back

- Earpiece Connection / Wearing Style: Headband
- System: Closed
- Driver Type: Dynamic
- Driver Size: 2.24" / 57 mm
- Active Noise Cancellation: No
- Frequency Response: 10 Hz to 30 kHz (Wired)
- Audio Connector to Source: 1/8" / 3.5 mm TRS
- Adapter (Included): 1/4" TRS

Technics EAH DJ1200

The EAH-DJ1200 is a successor model to the RP-DJ1200 and provides precise monitoring of the beat even in large-volume sound environments such as those in clubs.

Main Features include:

- The newly developed driver uses a 40mm-diameter CCAW voice coil. It achieves clear, detailed sound, and high-durability input (2,500 mW) with no distortion even at high volumes.
- A well-balanced sound from low to high ranges, DJ play in high-volume surroundings is not buried in noise and monitoring is comfortable.
- With a 270° swing arm mechanism, the EAH DJ1200 is lightweight on-ear type. The housing is equipped with lockable swiveling mechanisms so the headphones



can be used for monitoring with one ear.

- The headphones can be folded compactly for easy portability and storage.
- The detachable cord is easy to clean and maintain. A locking mechanism is provided to prevent accidental detachment of the cord during use.
- The stretchable coiled cord, coupled with the L-type plug, which resists internal wire breakage, enables extra ease of use and high durability.
- Combination of L-connector with stretchy 1.5-meter spiral cable effectively prevents cable breakage
- Includes a 1.5-meter spiral cable, a 1.2-meter straight cable and a 6.3 mm jack adapter

Tech Specifications:

- Design: closed-back / on-ear
- Driver: 40mm voice coil
- Input: 2500mW
- Swing Arm Swivel: 270°
- Earcup/Headband: synthetic leather

V-MODA Crossfade M-100 Master

Powered by dual-diaphragm 50mm drivers, the Crossfade M-100 master provides Hi-Res audio certified by the Japan Audio Society. The re-engineered driver cover enhances



driver stability, for the structural integrity to manage a vast tonal range. Roland took care of the tuning process and sound engineering for the Crossfade M-100 Master.

Main Features include:

- With CCAW Japanese Coil to support frequencies up to 40kHz
- Dual-diaphragm 50mm drivers
- Comes with the SpeakEasy™ 1 Button Mic Cable and SharePlay™ Cable
- Clickfold design with Exoskeleton Carry Case
- Ergonomically redesigned memory foam ear cushions
- SteelFlex 100% premium vegan leather headband

Technical Specification:

- Type: Over-Ear Circumaural
- Frequency Response: 5 – 30,000Hz
- Sensitivity: 103 dB@ 1kHz 1mW
- Microphone Sensitivity: -42dB @ 1kHz
- Impedance: 32 ohms
- Weight: 280g

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

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BEST GADGETS FOR YOUR PERFECT LIVE PERFORMANCE

Today, attending concerts has become a staple for music lovers. The live entertainment market in India is thriving with demand and consumption having undergone a sea change in recent years. Today, more and more people are planning and attending galas, gigs and extravaganzas to celebrate and entertain themselves. Experiencing music live has become one of the most popular ways that people enjoy the art. From the year 2000 onwards, concerts grew in size due to technological advancements in sound, lights, new screens, projectors, and smaller sized equipment. Moreover, the demand for live music has been on the rise with the growing number



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



of music festivals. In a recent study by PwC, it was reported that the live music industry is expected to project a significant amount of growth in the next few years. The study further states that the live music revenue will increase at a Compound Annual Growth Rate of 3.3% by 2022 which includes ticket sales and sponsorship.

There is no doubt that the music industry is gung-ho over live music concerts to connect more deeply with their audience. Many artists are now travelling across the globe to strengthen the connect with their fans across the world. The real bond is created through the nuances of the sound and using the right type of equipment can make your performance shine.

As a DJ, one of the most daunting tasks is selecting the perfect DJ headphones as there are a lot of varieties to choose from. A good noise isolation, punchy enough bass, detail in the high end, and durability are important factors to consider while looking out for a perfect set of headphones.

The Sennheiser HD 25 is the most popular headphones amongst DJs as it is very lightweight and comfortable. Due to their low weight and the option of one-ear listening, the HD 25 headphones are indispensable



for mobile monitoring. The closed-back HD 25 are purpose-designed, professional monitoring headphones offering high attenuation of background noise. Capable of handling very high sound pressure levels and of extremely robust construction, these headphones perform exceptionally well in loud environments. Ideal monitoring headphones for cameramen and DJs, these are a pair of true sound professionals' working headphones.

Wireless in-ear monitors too are one of the most important equipment for any performer. It allows artists to move freely around the stage and to hear an individualized mix. They eliminate monitor feedback worries, potential hearing damage, and the stage clutter of floor monitors.

Understanding these evolving patterns of entertainment consumption and the demand from the industry, Sennheiser has developed a line up to deliver the emotional power and reliability for the best performance every time. Whether it's a mega concert or an intimate session, Sennheiser has the right vocal and instrument microphones, monitoring headphones and accessories.

For example, the Sennheiser IE 500 PRO dynamic, in-ear headphones for wireless monitoring systems offer musicians, DJs, and sound engineers a rich listening experience with clear, studio-like accuracy, when

performing in quiet to moderately loud stage environments. The secure, comfortable fit shields the user from excessive stage volumes and poor room acoustics to deliver punchy sound with transparent midrange. With IE 500 Pro monitors, one can feel more connected to music and audience, allowing performers to be their best version on stage.

While performing in front of a live audience, microphones are an essential component of any artist. It is needed for everything- right from vocalists to instruments that do not have any audio outputs. Sennheiser's Digital 6000 microphones deliver impeccable RF wireless and audio performance. Designed for demanding live productions, Digital 6000 also addresses the challenges of the shrinking UHF spectrum which in turn allows more mics to operate in less spectrum space. The wireless microphones also provide artists the freedom to move around and bond with audience.

The prominence and preference for live music – be it concerts, or international DJs is poised for a significant growth in the coming few years. This will lead to an increase in demand for superior professional equipment with clutter-breaking technology. This is crucial for brands like us to constantly innovate and create the best to provide an impetus to the love for music this nation has.



www.palmtechnology.in

PALM Sound & Light honoured VIBHOR KHANNA with the award for Corporate Executive Excellence in the Indian Pro Sound industry for changing the business model and setting up the distribution network for Bose in India. The strong growth of the company in India can be attributed to a great extent to his demonstrated strengths in Sales, Marketing and Profit Center Management. This article looks at Khanna's career path in the pro sound industry in India.

9th edition
PALM SOUND & LIGHT AWARDS

Vibhor Khanna Corporate Executive Excellence in the INDIAN PRO SOUND industry

With over 18+ years of experience, Vibhor Khanna is a results driven leader driving clarity from chaos and inspiring & coaching great teams.

Born in Delhi, most of his early childhood years was spent in the United States of America. At the age of 10, Vibhor moved back to Delhi with his family. His passion for audio & music motivated him to join audio major BOSE Corporation, after completing his B. E Electronics & MBA (Specialization in Marketing).

Vibhor worked with Bose for nine years from 2001 to 2010 Direct Selling to end customers where he build huge success in building and maintaining relationships with key corporate decision-makers, establishing large-volume, high-profit accounts with excellent levels of retention and loyalty. Some key wins for Bose during Vibhor's tenure were the *Delhi International Airport, Mumbai International Airport, Infosys, Bharti Airtel, ITC Gardenia and Westin Hotel, Gurgaon* to name



Vibhor Khanna with the award for Corporate Executive Excellence. Also in the pic, Anil Chopra - Founder Director, PALM Expo, Manish Gandhi - COO, ABEC Exhibitions & Conferences Pvt. Ltd. and Ramesh Chetwani - Exhibition Director, PALM Expo

“ Over the last few years I have seen PALM Expo maturing into a tradeshow with international standards. One of the key elements that PALM has helped the industry, is getting all key brands under one roof in much more organized way. Few years back PALM started recognizing Industry professionals who have contributed in some way to the industry in the form of product technology, business practice, FOH engineer, Distribution channel. At the outset, I would like to thank PALM for recognizing me this year in the category of CORPORATE EXECUTIVE EXCELLENCE IN INDIAN PRO SOUND INDUSTRY and I wish PALM Expo all the very best for the years to come ”

Vibhor Khanna - Country Manager SAARC, Bose Professional

just a few.

In 2010, Vibhor left Bose to join HARMAN, where during a brief stint of 2 years, he was responsible for realigning Harman's dealer channel across India.

Vibhor came back to Bose in 2012 to set up the new Dealer Channel for Bose Professional products. He successfully managed the transition of the business and established a vast channel for BOSE Professional Products across India. In the last few years, Vibhor has been very successful in driving the Bose channel business & delivering

growth beyond normal market trends.

Vibhor's strengths include high levels of Strategic & Operational leadership, which include identifying growth segments, new business opportunities, whilst driving execution & relationship excellence across large cross-functional teams.

An effective strategist full of ideas and possibilities, he is known in the industry for his amazing sales techniques and people management skills. One will often see him supporting his team members, giving them opportunities to excel and grow.

Dev Electronics – India's most preferred... *(Continued from page 46)*

"The partnership between QSC and Dev Electronics has been consistent because of our flexibility to understand and comprehend the requirements of our consumers. Dev Electronics has a very efficient team with good knowledge of the audio industry and updated technical specifications of the products. For instance, on our recent launch of sub-woofer KS118, Dev Electronics arranged for a workshop to offer first-hand experience to the consumers. In a short time, the team at Dev was equipped with unique features of KS118 and handled many queries made by the guests," said Deepak Gracias, Director Operations - QSC, India

"Dev Electronics and QSC are committed to providing the latest technology, prompt customer service, and up to date knowledge. These kinds of initiatives are very useful and recommended as a must-visit for every pro audio professional," reiterated Dilip Devjani, Director - Dev Electronics.

Dev Electronics has also conducted workshops and events for Pioneer DJ that spotlighted Pioneer DJ's acclaimed products, technologies, and Masterclass sessions with DJ Mash and DJ Skip providing in-depth knowledge into the workings, features, and controls of software using Pioneer DJ's CDJ 2000 nexus2, Pioneer DJ Controllers and Pioneer DJ Torizax SP16

Samplers and sequencers.

Dilip Devjani expressed his views 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".

Participation in industry trade shows is another aspect of extending support to the overall growth of the industry. With their value-added support, over the years Dev Electronics has increasingly become the choice for industry-leading pro audio brands.

SUCCESS SPEAKS

A lineage of success has been built on the merit of delivering a truly sublime customer experience, by offering the widest range of professional audio-video-lighting products at unmatched prices, and backing it up with superior after-sales service and timely technical support; making Dev the go-to source point for pro audio professionals across India.

Tony Gouria, DJ, and Sound Engineer, who purchased the HDL 30 RCF set up from Dev Electronics said, "I have been dealing with Dev since the last five years, it has no doubt been a wonderful experience. We purchase all our Pioneer products from Dev and so far we have never had any issues with them. We will continue to rely on Dev for our purchases; just one call and my things are organized by them".

Titu Kulkarni - a reputed sound solutions provider from Mumbai who is a regular Dev Electronics patron and who has recently purchased an elaborate Ancient wireless microphone system from Shure - added his thoughts saying "The experience of doing business with Dev is always so pleasant and simple. The entire team is very experienced and knowledgeable; and you can absolutely count on them to offer you the smoothest purchase and procurement experience. This is why I choose to do business with Dev Electronics, and will continue to do so in the future as well!"

Over the years, the company has expanded its dealership network, channel partners and SI partner network across India with extremely strong overall partner presence in Tier 2 and Tier 3 cities. Dev Electronics has also reported a consistent year on year average growth value of 10% in sales performance as recorded from 2013 to date, with 100% growth rate recorded in 2015 and 2016 for brands like Wharfedale Professional, PioneerDJ, PowerX and Harman Professional. The company has also been recognized as the most successful distribution partner for Harman Professional India with exceeding sales targets by over 5%.

"Over the last four years or so, the value of our partnership has grown four-fold. This hardly comes as a surprise considering that Dilip Devjani firmly believes in ending a meeting only after ensuring that

something meaningful has come out of it. Suffice to say that it is always a pleasure working with Dev Electronics," sums up Prashant Govindan.

PLANS FOR THE FUTURE

The senior management at the company aren't discreet about their plans for the future, as the agenda is quite clear in terms of expanding the Dev Electronics brand across India by increasing direct presence in key geographical regions like the South and the East. The company is also confident of maintaining the Demand-Supply dynamic at the highest level of commitment towards the various brands that they represent, and of-course, towards the end customer as well. Dev Electronics will continue to provide the market with the latest and the best in the widest range of pro audio products and services at unbeatable prices and package deals. Moreover, the company plans to further enhance the service and support structure extended to dealers, partners, and end customers by setting up more, better equipped, and adequately stocked key service centers across the country that will provide timely and high-quality technical support, service, & repairs; and by participating in and promoting initiatives like workshops, seminars, roadshows etc.

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   Prolight and Sound China



DJ Controller

Spotlight on DJ Controllers launched in 2018-2019.

Akai Pro Force

The Akai Pro Force fuses clip-launching, step sequencing, sampling, synth engines, and a tactile touch screen control into a standalone, performance-driven device. It comes preloaded with 10GB+ of sounds including SampleTools by CR2, MSX Audio and Sample Magic.

Main Features include:

- Import stems, loops and one-shots into Force's 8x8 clip matrix.
- Assign tracks to Force's crossfader and load full tracks
- Connect to a wireless network and sync projects with any Ableton Link compatible application or hardware device.
- Dual custom real-time time stretch algorithms and auto BPM detection.
- Dedicated cue assign controls and a cue mixer.
- Browse the library or create samples loaded from USB thumb drives or SD cards.
- Four premium synth engines, each with full editing capability.
- Load multi-sampled instrument keygroups and playback samples chromatically via a MIDI keyboard or Force's pads.
- Resample clips or capture audio from Force's collection of inputs and loop.

Technical Specification:

- **Pads:** (64) velocity- and pressure-sensitive pads, RGB-backlit
- **Knobs:** (8) 360° touch-sensitive Knobs, (1) 360° encoder for display navigation and selection via push, (5) 270° knobs for gain, mix & level adjustment
- **Buttons:** (56) dedicated function buttons;
- **Display:** 6.9" / 176 mm (diagonal), 5.9" x 3.7" / 150 x 93 mm (width x height), Full-color LED-backlit display with touch interface



Connections:

- (2) XLR+1/4" (6.35 mm) TRS inputs (Input 1/2)
- (4) 1/4" (6.35 mm) TRS outputs (2 stereo pairs)
- 1/4" (6.35 mm) stereo headphone output
- 1/8" (3.5 mm) MIDI input
- 1/8" (3.5 mm) MIDI output
- 1/8" (3.5 mm) MIDI thru port
- (4) 1/8" (3.5 mm) CV/Gate outputs
- Ethernet link port
- USB Type-A ports
- USB Type-B port
- SD card slot
- power adapter input



Denon DJ Prime 4

DJ Prime 4 is a standalone 4 deck DJ system with a 10" touchscreen. It has a multicore processor that makes the entire music collection available without the need of a laptop.

Main Features include:

- Entertain two separate audiences at different locations simultaneously.
- View 4-deck, horizontal or vertical waveforms, Search, select and load tracks, Create playlists and crates on-the-fly with the 10" touchscreen.
- Dedicated XLR Zone output with gain and EQ control.
- 4-channel line faders, each with 3-band EQ and gain, Single encoder, sweep FX including filter control, Mainstage quality Post-Fader FX, User-replaceable crossfader.
- Dedicated mic channels, Control EQ, dedicated TRS mic.
- Ultra-responsive, touch-capacitive jog wheels, Central HD display, RGB light customizable.
- 14 class-leading FX, Individual effect selector, and parameter controls, Crystal clear OLED screens, Effects 'on/off' and 'beats' buttons for dynamic punch-ins.

Technical Specification:

- Audio
- Bit Depth:24-bit

- Sampling Rate:44.1kHz
- Dynamic Range:> 117dB (A-weighted)
- Frequency Response:20Hz to 20kHz (+/- 1dB)
- Signal-to-Noise Ratio:> 93dB (A-weighted)
- Headroom:
 - Line: > 15dB
 - Microphone: > 20dB
 - Outputs: > 20dB

Displays

- Main:
 - 10.1" / 257 mm (diagonal)
 - 8.5" x 5.5" / 216 x 139 mm (width x height)
 - Full-color LED-backlit display with touch interface
- Jog Wheel:
 - 2.2" / 56 mm (diameter)
 - Full-color LED-backlit display
- FX:
 - 128 pixels wide x 32 pixels high
 - Black & White OLED display

Pioneer DJ XDJ-XZ

The Pioneer DJ XDJ-XZ is a full-sized, professional all-in-one DJ controller with a 4-channel system and multiple inputs and outputs. It works with Serato and Rekordbox and comes with 14 professional Beat FX and 6 Sound Color FX.

Main Features include:

- Full-size jog wheels and color On Jog Display for track information.
- Use a USB drive loaded with rekordbox-analyzed tracks or use a laptop to use rekordbox dj or Link Export mode.
- Clear audio with a 64-bit digital signal processor and fine-tuning with the 3-band master output EQ.
- Connect CDs to sync the audio. Use XDJ-XZ's screen to browse external libraries.
- Display Waveforms, Hot Cues, BPM, via the 7-inch LCD touch screen.

Technical Specification:

- **Supported music file formats:** AAC, MP3, WAV, AIFF
- **File Systems:** FAT, FAT32, HFS+
- **Included DJ Software:** Rekordbox DJ
- **Compatible DJ Software** (not included): Serato DJ Pro (coming early 2020); rekordbox video (paid upgrade)
- **DVS Control:** Serato DVS (Paid Upgrade); rekordbox DVS (paid Upgrade)

Other Specifications

- Width: 878mm



- Height: 118.4mm
- Depth: 466.1mm
- Weight: 13kg
- Frequency Range: 20 – 20000Hz
- Signal-to-Noise Ratio: 114dB (USB)

Performance Control

- Channels: 4
- Deck Control: 2 (USB Storage Device)/ 4 (DJ Software Control)
- Jog Wheel: 206mm
- Sound Color FX: Space, Dub Echo, Sweep, Noise, Crush, Filter
- Beat FX: Delay, Echo, Filter, Flanger, Helix, Phaser, Ping Pong, Pitch, Slip Roll, Spiral, Reverb, Roll, Trans, Vinyl Brake

Terminals

- Inputs: 2 Line (RCA), 2 PHONO (RCA), 1 AUX (RCA), 2 MIC (XLR & 1/4 inch TRS Jack)
- Outputs: 2 MASTER (XLR, RCA), 1 BOOTH (1/4 inch TRS Jack), 2 PHONES (1/4 inch stereo jack, 3.5mm stereo mini-jack)

Roland DJ-707M

The DJ-707M is an integrated live sound console, loudspeaker management system and a full-fledged performance DJ controller.

Main Features include:

- 10 onboard scene presets for creating create 'go-to' event settings for audio routing, loudspeaker management and system setups
- Master, booth, and zone outputs with independent speaker management processors
- Built-in feedback suppression listens out for feedback adjusting the speaker output automatically
- Dual USB Ports for seamless DJ change-over or backup laptop connection
- Up to 4 inputs for guest performer with front-facing dual 1/4-inch jacks or 1/8-inch stereo aux input
- Fully assignable zone output with dedicated level control for creating separate mix
- Ideal size for DVS – fits perfectly between turntables and DJ media players
- Serato DVS Upgrade Ready
- Mic section can handle anything from straightforward speeches and announcements to pitch-corrected karaoke throw downs
- Studio-quality microphone preamps with

independent gain, low-cut, and noise gate on each channel

- Console-class mic EQ and effects
- Dedicated hardware effects from clean reverbs and delays to key-based auto-pitching and auto-ducking
- Up to four mic inputs
- Full Serato DJ Pro support for hot cues, loops, rolls, pitch play, slicer, and more
- Fully adjustable crossfader with full-range curve settings and software-adjustable crossfader margin
- Channel filter and FX with dedicated Filter/FX knob on each channel
- Phono/Line Level Inputs – use DJ-707M as a mixer with turntables and CD decks
- 5-Pin MIDI Output – sync with external synths, samplers or lighting rigs
- TR Drum machine on Deck 3, with classic TR-808 and 909 drum loops
- Oscillator mode on Deck 4 for sweepers, synth stabs, and other onboard DJ sound effects.

Technical Specification:

- Signal Processing: Sampling Frequency = 48 kHz
- Scene Memory: 10
- Input Impedance –
- INPUT (1–4) (RCA phono type): 47 k ohms or greater,
- MIC IN (XLR type): 7 k ohms or greater,
- AUX IN (1/4-inch TRS phone type, AUX/MIC): 30 k ohms or greater/ 7 k ohms or greater
- AUX IN (Stereo miniature phone type): 10 k ohms or greater

Output Impedance –

- Master Out 1: 600 ohms (balanced),
- Master Out 2: 1 k ohm (unbalanced),
- Booth Out: 600 ohms (balanced),
- Zone Out: 1 k ohm (unbalanced),
- Phones: 44 ohms
- Frequency Response: 48.0 kHz: 20 Hz–22 kHz (+0/-2 dB)
- Display: 16 characters, 2 lines (backlit LCD)

Size and Weight

- Width: 474 mm, 18-11/16 inches
- Depth: 331 mm, 13-1/16 inches
- Height: 73 mm, 2-7/8 inches
- Weight: (excluding AC adaptor) - 3.5 kg, 7 lbs 12 oz



Traktor Kontrol S3

Native Instruments Traktor Kontrol S3 is a four-channel performance oriented controller with upsized jog wheels, extended pitch, a mixer section with EQ, filter and Mixer FX controls and channel faders. Traktor Kontrol S3 comes paired with the full version of Traktor PRO 3.

Main Features include:

- Full-length faders, EQ, cueing, eight RGB pads and Mixer FX control over each deck.
- Large jog wheels for scratching.
- Choose from eight effects and three filters.
- Pro-grade XLR and RCA main outputs, a 1/4" TRS booth output, and 3.5 / 6.3 mm headphone outputs.
- Trigger loops for extended mixes, track manipulation, and re-edits.

Technical Specification:

Audio –

- Channels: 4 out / 2 in
- Sample Rate / Resolution: 44kHz/48kHz – 24 bit

Main Out (Balanced - Xlr) –

- Signal Level: 18.7 dBu
- THD+N: 0.001%
- Freq Resp: +/- 0.1 dB
- Channel Separation L/R: <-107
- Crosstalk: -106 dB
- Dynamic Range: 111 dB

Booth Out (Balanced - Trs) –

- Signal Level: 18.7 dBu
- THD+N: 0.009%
- Freq Resp: +/- 0.1 dB
- Channel Separation L/R: <-107
- Crosstalk: -109 dB
- Dynamic Range: 111 dB
- Headphone Out @32 Ω (Stereo Unbalanced - Trs) With 12v Psu/Usb Powered
- Signal Level: 7.7 dBu/-16.5 dBu
- THD+N: 0.015%/ 0.001%
- Freq Resp: +/- 0.1 dB/+/- 0.1 dB
- Channel Separation L/R: -65 dB/ 64 dB
- Crosstalk: <-105 dB/<-81 dB
- Dynamic Range: 109 dB/ 85 dB
- Mic In (Balanced - Xlr/Trs)
- Signal Level: -10 dBu
- THD+N: 0.002%
- Freq Resp: +/- 0.03 dB
- Dynamic Range: 97 dB

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

by Fali Damania

Sound for large events requires special attention. In the next few paragraphs I will enlist ways to get the best possible result leaving your audience satisfied and hopefully the job Secure!

As a mix engineer it is our responsibility to make certain decisions with regards to the aural representation of the production. Be it overall loudness, spectral balance or genre specific treatment, certain decisions need to be thought of and made way in advance. Here are a few strategies I use to tackle sound for some of the largest events, be it Music, Sporting or Corporate.

Catch up on SLEEP

YES!! I ensure I get 2 full days of rest before any major event. Lack of sleep has a way of altering your hearing response. This manifests into issues like sinus and a feeling of blocked ear and nasal canal. This in turn would lead to un-natural equalization resulting in the source sounding harsher and unpleasant.

Never underestimate the importance of a venue walk around. Front to back, top to bottom. If nothing else you would add 5000 steps to your daily workout kitty. Listen specifically for drastic tonal and volume changes along your walk. This would be an easy giveaway of any inconsistencies in the sound system, be it inefficient coverage or dead circuits. I generally also tend to focus more on HF than LF. I would rather have slightly less LF in certain areas as opposed to having less HF. HF means clarity and any decision with regards to HF must supersede any other.

RTA System and SPL monitoring System

Carry your own trusty RTA System and SPL monitoring System. Yes as a sound engineer it is as important an investment as the best microphone on the block. The above are two things I would never travel without. These two tools give me consistency in tone and volume be it a show for 100 or 100,000 people.

Volume (How loud is too Loud)

No real hard and fast rule here.

The question is, 'How does one measure loudness?' What I would consider loud for me, as a sound engineer, would be overkill for a general audience member. As sound engineers our listening threshold is much higher than the average concert goer. Pacing loudness makes

ment decisions based on what works for the genre and the artist and NOT what suits your fancy. For example, the best condenser Vocal microphone won't necessarily suit a heavy Rock and Roll Singer. Just like certain PA systems are very genre specific. I won't get into these specifics because most

the material as possible before hand, and being prepared in advance.

There is nothing worse than being in an event and not knowing your cues. Large concerts give us the liberty of time and a large crew; there should be no reason for us to not do our homework before showing up to



the concert experience more exiting. The Softest soft to the loudest loud makes for a more dynamic and exciting experience for the audience. Choose, which would be the softest and loudest, sections of the concert, and pace your loudness accordingly.

103 dBA averaged over 15 min-

utes of you reading this will know what I mean. To put things in perspective, understand that you are the last line of defense between a source from stage and the audience's ears. Now go ahead and plan your next move.

Mixing is a delicate blend of the artists vision, your vision and the im-

work.

Considering that I need to have my hearing in best condition over a 3-hour concert duration, I tend to spend as little time with the PA at "full volume" before that show. I will always have a pair of near field monitors, and do a decent amount of balancing to those monitors, again something that I trust and that translates well to the PA system. Sound-check of individual channels is usually done on PA, but post this checking of snapshots and mix balance usually on near fields, not at an unreasonable volume, regularly checking every few seconds on the House. I have found this process to be the most effective for keeping the ears as fresh as possible before the event commences.

Hope these tips, help in providing an insight into achieving consistency in your FOH mixes. **Mix on.**

**103 dBA averaged over 15 minutes
measured around 100 feet from the
stage for a large concert is what I use.**

utes measured around 100 feet from the stage for a large concert is what I use. Also note... loudness being a function of HF, it serves no purpose to turn up LF and Subs. This just results in things sounding flat and muddy.

Choice of equipment

Agreed we all have our favorites when it comes to PA systems, Microphones and consoles. Make equip-

pression you wish to impart to your audience. I will almost never take on a large mixing project if I don't have access to a multi-track of at least 1 show of the client. I would listen to the material non-stop for a few days, and then get stuck into a multi-track mixing session. This session would include, building snapshots and notes for each song, and at times multiple snapshots per song. I want to get into the show knowing as much of

Fali Damania - Award Winning
Live Sound Engineer
Instagram @fali_on_tour

SHIROCK 2019 ROCKS WITH GRANDMA3

The state of Manipur in North-East India is greatly influenced by western music and has a long musical history with rock music. To attract tourism through culture and music, the Manipur State Government in association with the Manipur Tourism Department has been organizing Shirui Lily Festival since the past 2 years with the annual International rock festival- ShiRock music festival which has been a huge success with

Lighting designer was entrusted with handling ShiRock for the second time in a row. Guru is the touring Lighting engineer for The Local Train, When Chai Met Toast, Skrat, and Parekh & Singh. This year, Guru used a grandMA3 light console to run lighting for Extreme's performance at ShiRock 2019. Guru explained his planning for the festival's lighting design. "The design ideology was keeping in mind early 90's Rock



Ajay Teja with Extreme's LD Martin Favourite



Rock band, Extreme at ShiRock 2019 Festival

a turnout of 30-40K people every day in 2017 and 2018.

In 2018, American heavy metal band Queensryche headlined ShiRock. The government-sponsored ticket-free music festival has grown much bigger in 2019 and the audience witnessed two legendary classic rock bands – Nazareth and Extreme. This year, the festival was held from 16th October to 19th October 2019.

Guru Somayaji, a Bangalore based

concert rigs. The LED Par Cans were retrofitted on pipes and fanned out to make them look like ACL Bars. Blinders were, of course, used aplenty to provide for grand sing-along moments. We also shipped in 5X5 Matrix lights to ensure we had met Extreme's lighting rider. Apart from meeting Extreme's requirements, I also had to ensure all the participants of the prestigious ShiRock 'Battle of the Bands' and the

across the globe. Guru also shared the challenges prior to the show. "Ukhrul is technically a very challenging location to produce any concert. Though the entire state machinery is involved in producing this event, logistics is always a challenge, which I always strive to work with." Audio Systems MA Product Manager /Tech Support Engineer Kakkaroda **Ajay Teja** from **Hi-Tech Audio Systems** stepped in

'voice' competition had to look at their best." He continues, "The entire design was conceptualized on Grand MA2on PC Command Wing & MA3D. I used the latest version of 3.7.0.5. Primary drawings were made on Claude Heintz Design's LX Software". The technical support of MA is highly appreciated to help with the overall logistics of shipping the MA console and program the show for Extreme's Lighting Designer **Martin Favourite**. Guru continued, "Ajay provided his technical expertise in making the MA air cargo ready. Ajay's onsite tech support was a huge relief, especially in a place as remote as Ukhrul. His presence also made Martin at ease from shifting his regular preferred console to using MA console for Extreme. With Ajay's experience in training people on MA software, he had Martin setup and show ready in super quick time." Hi-Tech Audio Systems is the Authorized India Distributor of MA Lighting.

"Martin Favourite loved the workflow of MA. I made him familiar with the console and during the show; I helped him with the programming. It was indeed a moment of pride for me to work with Mr. Martin, one of the global icons in lighting industry. I bet we managed to rock ShiRock with extreme fun and head-banging moments", concludes Ajay Teja.

LASERWORLD RELEASES EFFECTS LASER FOR DJs AND NIGHTCLUBS

The new Laserworld EL-300RGB is a multicolor whitelight special effects laser that creates a multitude of dots or beams, depending on the viewing angle. The power of the laser system is distributed evenly to the dots due to special optics, which as a result makes the laser safe. The Laserworld EL-300RGB is a class 2 laser light and thus much safer than comparable laser displays with a higher laser class.

The colors of the laser as well as dim, rotation and strobe



effects can be controlled

by push buttons or via DMX, but can also run in different stand-alone operation modes and can be triggered by music, too. Therefore the EL-300RGB is the perfect effects laser for the use in small to medium-sized rooms: ideal for mobile DJs and small nightclubs, bars, and entertainers.

The effects wheel in the EL-300RGB can be operated at different speeds; even a static

operation is possible. The different colors can easily be selected either directly at the unit or remotely via DMX. The red diode laser module with a wavelength of 638 nm, the green diode laser module with a wavelength of 520 nm and the blue diode laser module with a wavelength of 450 nm ensure beautiful colors and bright beams. This special effect laser device of the Laserworld Ecoline Series comes with additional safety features like a key switch, an Interlock connector, and an on-off switch at the rear side of the device.

CHAMSYS MAGICQ MQ70 CONSOLE DEBUTS AT LDI

ChamSys debuts its **MQ70 Console** at the LDI 2019. The MagicQ MQ70 will offer a new level of mobility to designers and programmers. Introduced first at PLASA 2019, the MQ70 is trim, lightweight, and can fit into a carry on size luggage.

The MagicQ MQ70 supports 24 universes of ArtNet/sACN natively, with an option to expand this to 48

time-coded directly from the console (with a paid upgrade). The console features a 10.1" multi-touch display, along with illuminated fader and encoder tracks.

The MagicQ MQ70 also has an in-built WiFi that makes it easy to connect to the ChamSys MagicQ Remote Focus application by simply scanning the QR Code on screen.

MIDI input and outputs, as well as LTC time code input, are inbuilt, allowing easy integration with show control and time-coded shows.

An inbuilt UPS protects the MagicQ MQ70 in the event of a power failure. Since the console consumes less power, it requires no cooling fan hence operating

silently which becomes a critical feature for theatrical, broadcast, and corporate show applications.

Since MagicQ MQ70 runs on the same software as other MagicQ consoles, it can accept shows programmed on them within the universe limits.



NEOLUX, LAUNCHES LIGHTS FOR FIXTURES USED IN STAGE SHOWS, OFFERING QUALITY AT AFFORDABLE PRICES

Launched at competitive prices and backed by trusted German technology, NEOLUX Stage Lights have received overwhelming response from customers.

NEOLUX, a German technology brand, has launched an exciting range of Stage Lamps, especially for judicious buyers who love to buy value-for-money products without compromising on quality. Being in the market for almost 100 years, NEOLUX is a name to reckon with reliability and trust that it has earned over decades of manufacturing.

NEOLUX offers high-pressure discharge lamps that provide high luminance and brightness for entertainment fixture applications. The company meticulously ensures safety and reliability of

NEOLUX®
GERMAN TECHNOLOGY

its products. Engineered by R&D teams in Germany, NEOLUX lighting products are tested throughout the production process and certified to a number of German and international standards such as RoHS, REACH and ISO. NEOLUX lights are lightweight, compact and are best suited for small moving heads and their burner design allows any burning positions.

Dr. Marco M. Günter, Product Manager of NEOLUX said,

"Considering the need of the hour, we apply German standards at all stages of production process and testing. Providing high luminance and brightness, our lightweight and compact reflector lamps are available at affordable prices.

Creative design and committed customer service are the absolute



hallmarks of brand NEOLUX." NEOLUX Stage Entertainment Lamps are available in three different variants: NEOLUX STAGE 230W, NEOLUX STAGE 280W, and NEOLUX STAGE 330W. NEOLUX Stage Entertainment Lamps are available through designated dealers across India.

Contact us:
info@neolux-entertainment.com

DALE SOUND UPGRADES WITH VOLITE GALAXY THUNDER 54X3W LED PARS

Mumbai based renowned light & sound rental company Dale Sound has upgraded their inventory with Volite Galaxy Thunder 54x3 watt high performance LED Pars. They now form the backbone of the lighting delivery infrastructure that's deployed during live events and performances.

Speaking about the purchase, **Mr. Lincoln** of Dale Sound said, "Specializing in planning, designing and customizing light requirements for a variety of events ranging from parties, performances to concerts, we require reliability and rock-solid performance. This is exactly what the Volite Galaxy Thunder 54x3W LED Pars provide us. They are so easy to use that operation is a pleasure and it has had an

absolutely positive impact on the overall production value of the shows we've commissioned – Volite is undoubtedly a true value for money brand!"



Volite Galaxy Thunder 54x3W used for a live event



MARTIN BY HARMAN ANNOUNCES NEW FIXTURES

compact, all-in-one profile solution, the lightweight ERA Performance fixtures offer high-output LED engines and a wide array of features. The new fixtures deliver maximum value in three different sizes and output levels, covering everything from the smallest stages to the largest live productions and events.

The feature-rich ERA Performance fixtures meet the current popular demand for a compact and powerful fully-featured moving head, capable of serving multiple roles. All three models feature full CMY color mixing and separate color wheels, plus an iris for beam adjustment and a full curtain framing system. Fixed and rotating gobo wheels, loaded with user-favorite gobos from the renowned MAC range, offering a wide variety of effects, especially when combined with the included prisms and frost filters. Additionally,

the ERA 600 and 800 Performance feature variable CTO for color temperature adjustment. The entire system can rotate, allowing designers to direct light exactly where they want it to go and achieve unique movement effects not otherwise possible.

Each ERA Performance model caters to productions of varying scope with different output levels, zoom ranges, sizes and weights. At 34,000 lumens from an 800 watt light engine with a 1:8 zoom, the ERA 800 Performance is the brightest product in its class and is designed for the largest arena and stadium productions. The ERA 600 Performance is a fantastic option for medium-sized shows, putting out 19,000 Lumens from a 550 watt light engine with a 1:8 zoom. Ideal for small-to-medium productions, the ERA 400 Performance is available in CLD and WRM variants, both with a 1:3 zoom range. The 10,000

lumen CLD version features a 6,500K color temperature, while the 5,000 lumen, 3,200K WRM version emulates the warmer color temperature of tungsten fixtures. At 83, 62 and 45 pounds (38, 28 and 20 kilograms) respectively, all three fixtures are compact, lightweight and easy to transport and rig.

"The release of the new Martin ERA 400, 600 and 800 Performance models ushers in the latest full range of Martin moving-head fixtures," said **Mark Buss**, Martin Lighting Product Manager, HARMAN Professional Solutions. "These streamlined, no-nonsense LED fixtures give rental companies tremendous power, value and trusted Martin performance. They're bright, compact and loaded with in-demand features and the ERA 800 Performance is the brightest profile moving head in Martin's history."

HARMAN Professional Solutions, have announced a complete **Martin ERA Performance range** consisting of the new **ERA 400, 600 and 800 Performance** lighting fixtures.

The new ERA Performance range offers a powerful, cost-effective solution for **entertainment and rental applications**. Designed to fulfill the demand for a bright,

ADJ LAUNCHES ENCORE PROFILE PRO RANGE

ADJ has announced the launch of its new products – Encore Profile Pro Range. The new range is a series of professional LED-powered ellipsoidal fixtures designed for theatrical, broadcast, and performance environments.

Joining the ADJ Focus Series as its new flagship, the **Focus Spot 6Z** harnesses the power of a 300W cool white LED engine and pairs it with precision-engineered optics to create an impressively sharp and bright output. It is equipped with motorized focus, iris and zoom (with a range of 9–28-degrees) as well as two rotating, indexable prisms (6-facet linear and 6-facet circular) and two

frost filters (heavy and light). It also features two separate color wheels, loaded with vibrant saturated colors and useful CTO, CTB and UV filters. In addition it offers two separate wheels each offering 7 replaceable slots for indexed, rotating GOBOS that can be used simultaneously to create animation effects. This versatile fixture is ideal for a wide variety of applications including **production and rental as well as permanent installation in nightclubs, concert venues, and churches**.

Bringing a dedicated wash luminaire to the Focus Series for the first time, the new **Focus Wash 400** features a 400W HEX LED

engine (red, green, blue, amber, cyan, and lime) that generates an output of 11,000 lumens with a high CRI. Its large Fresnel lens generates a homogenized output, while its motorized zoom function allows for a variable beam angle of 12–55-degrees. The ideal companion to the Focus Series' spot fixtures, especially the popular Focus Spot 4Z as well as the new 5Z and 6Z models, this impressive wash fixture generates vibrant saturated washes with a very even field.

The new **Encore Profile Pro WW** is an LED-powered ellipsoidal designed for professional theatrical and other performance lighting applications. It utilizes a potent 250W warm white LED light source with a color temperature of 3200K and an extremely high CRI in excess of 97. The fixture has a robust aluminum die-cast body and offers smooth

16-bit dimming, manual focus, and zoom, framing shutters and a GOBO holder. It boasts an extremely flat, even field as well as crisp optics for GOBO projection and industry standard lenses compatibility. ADJ will offer a range of optimized lenses for the fixture: 5/10/14/19/26/36/50 static and 15-30 / 25-50 degree zoom.

The **Encore Profile Pro Color** offers all of the same features but loaded with a 250W HEX (red, green, blue, amber, cyan, and lime) LED light source. This allows for an extensive palette of both rich saturated colors and subtle pastel shades with a high CRI in excess of 90. As well as full color mixing control, the fixture also offers a set of useful color temperature pre-sets, ranging from 2800K to 6000K.



ADJ Focus Spot 6Z



Focus Wash 400



Encore Profile Pro WW



Encore Profile Pro Color

CHAUVET PROFESSIONAL ENHANCES BRIGHTNESS WITH NEW ROGUE R2X WASH

Rogue **R2X Wash** is a durable and dependable moving wash workhorse which produces a bright, powerful light and offers five zones of LED control to pixel map its 19 (25 W) RGBW quad-LEDs. A standout zoom range of 12° to 49° gives it the spread to cover even the largest areas. Smooth color mixing, simple and complex DMX channel profiles and powerCON in and out are just some of the other features that make this fixture a standout performer in any setting.

The new Rogue R2X Wash fixture from Chauvet Professional is an extremely bright and updated version of its predecessor.

"We recognized the potential of

the new generation of LEDs that OSRAM is developing, so we made a commitment to updating our fixtures to incorporate this technological advance," said **Albert Chauvet**, CEO of Chauvet.

Drawing on this new technology, the Rogue R2X Wash is almost twice as bright when producing a single color, and 20-percent brighter at full output. The Rogue R2X Wash is powered by 19 of the new OSRAM 25W RGBW LEDs. The engine produces a brightness of 8,650 lux measured at 5-meters. A calibrated white mode that has been added to the new fixture which allows its output to be balanced to roughly 7,000k when it is brought up to full

intensity.

Another new enhancement to the fixture is the addition of RDM. The Rogue R2X Wash also makes it possible for users to set their own calibration via the fixture's menu, so they can match its output to other lights in their rig. Additionally, five zones of pixel control allow users to create stunning pixel mapping effects.



ELATION LAUNCHES FIVE NEW LUMINARIES

Elation Professional has launched five new moving head fixtures from its award winning Artiste, Proteus and Fuze product lines.

Artiste Mondrian: The Artiste

front lens and has the power to cut through at great distances.

Artiste Rembrandt: The Artiste Rembrandt is a bright, full-featured LED Wash fixture. Providing up to

designed hotspot 580W LED engine, it houses fast zoom optics and comprehensive FX package all wrapped in an impressively compact fixture design to make a statement

whites from 2400 to 8500K, a wide zoom range, and framing beam control.

Fuze SFX: The Fuze SFX is a new concept LED Spot FX



Mondrian is the brightest, full-featured LED Profile FX fixture produced by Elation to date. It offers extreme output with high center intensity and narrow-beam angles, a comprehensive FX package with endless framing, and a wide color-mixing gamut through its variable SpectraColor color mixing system. Providing over 50,000 lumens from an efficient 950W LED engine, the Mondrian features a large 226mm (8 3/4")

51,000 lumens from an efficient 950W LED engine, the Rembrandt is the ideal fixture for any application requiring superior wash output, quiet operation, bright and powerful beams, as well as stunning colors.

Proteus Lucius: The Proteus Lucius is a powerful, featured packed yet compact IP65-rated LED Profile fixture with framing that offers outstanding projection qualities to cut through in any environment. It provides up to 31,000 lumens from its custom-

on any stage.

Fuze Wash FR: The Fuze Wash FR is an automated LED Fresnel wash fixture with framing designed for theater, television and a wide array of precision lighting applications. A 92 CRI engine utilizes a homogenized full spectrum RGBMA LED array. The carefully tuned LEDs ensure accurate color reproduction while delivering a powerful output of 14,000 lumens @ 6500K. It delivers outstanding colors, variable

fixture designed for a variety of applications requiring a compact and powerful multi-purpose luminaire. The SFX is capable of projecting tight beams to wide washes using a highly efficient optical design while providing over 12,000 lumens of output from its 300W white LED engine. Seamless CMY color-mixing plus color wheel, variable frost, gobos and zoom allow for a variety of effect options.

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**PALM SOUND &
LIGHT AWARDS**

Sohel Dantes AUDIO SYSTEMS ENGINEER of the Year

Live sound systems engineers are responsible for designing the sound system, installing, optimizing, and maintaining the complex PA systems and amps and the PALM Sound and Light awards has always attempted to recognize the genius of Systems Engineers for live events. Sohel Dantes who won this award, in 2019, beautifully sums up the crucial role that systems engineers play in live events. "To be honest, it came as quite a surprise that left me in a blissful daze until I was up on that stage receiving the award for "Systems Engineer of the Year 2019"! It was at that instant when the realization of how important this accolade was that began to dawn on me. It is the subconscious responsibility that we as Systems Engineers have taken upon ourselves to ensure the truest representation of an artist's creation to their audiences. To ensure that mix engineers are able to recreate that art with utmost ease in the most stubborn venues. To ensure that clients and audiences

A career in live sound is now more competitive than ever, and few live sound engineers have been able to stand out and make their presence felt. This is even more so when it comes to Systems Engineering which has more often than not, been overshadowed by the glamour of Front of House engineering. PALM Sound & Light Awards 2019, honoured Sohel Dantes with the award for AUDIO SYSTEMS ENGINEER of the year for delivering outstanding audio systems design, calibration and alignment for live sound events in 2018-2019. This article takes a sneak peek at Sohel's journey to becoming a sought after live sound engineer.



Sohel Dantes with the award for Audio Systems Engineer of the Year

“I am extremely grateful to PALM India for bestowing this honour on me and for recognizing the years of hard work put in. I also owe this success to my colleagues, mentors, crew, students, teachers, inspirers, lovers & haters, without whom I would never be able to build the mettle to survive this crazy industry. This award is the beginning of a new chapter and a shout out to all budding Systems Engineers from different parts of the country... keep your heads on your shoulders and FOCUS!”

Sohel Dantes

alike, get what they paid for, never compromising on quality, consistency and efficiency day in and day out. It is as simple as that! The toughest part is acknowledging this fact first! The math and physics are still to follow.”

Born and brought up in

Mumbai, Soheli was always fascinated by the world of audio. An audio aficionado, Soheli loved anything to do with music/sound/acoustics and technology. He eventually dropped out of an MBA course and moved to UK with his family to pursue his quest for perfection in audio. While in UK, he joined the Manchester

MIDI School (now called School of Electronic Music) and enrolled for a diploma course in Music Production & Recording. It was when he was told that “live sound is not meant for you” that Soheli decided that “Live Sound” is exactly what he had to do!

After completing his course Soheli joined a small rental company in London eagerly devouring all the work that came his way, from audio to video and lighting. Post the short stint of one year with the rental company, Soheli moved to Bangalore 10 years ago to work with Reynolds, one of India’s premiere rental companies.

Since then he has honed his skills in Systems Engineering and worked with some of the biggest acts touring the globe. From the late *Pdt. Ravi Shankar* to *Metallica*, Musical Theatre Productions and numerous high profile corporate events, Soheli has gained considerable experience taming different rooms to work with a wide variety of genres.

Developing from an enthusiastic kid, interested in all nuances of audio, to designing and optimizing

systems for some of the biggest acts to tour our shores; doing what he does is no more a job for Soheli. “It has become an obsession,” he enthuses.

In the last two to three years, Soheli has been part of some of the most high profile live concerts and music festivals which included *Bryan Adams Ultimate Tour*, *Bangalore Open Air*, *Steven Wilson*, *Guns N Roses*, *Poets Of The Fall*, *Deadmau5*, *Tiesto*, *Avicii*, *Hardwell*, *Indigo Blues and Jazz Festival*, *Backdoors Festival*, *NH7 Weekender*, *Sunburn*, *Timeout Festival*, and *Serendipity Music & Arts Festival* to name just a few.

“Over the past 15 years, I have been exploring different ways of expressing myself through the medium of sound; be it spinning tracks as a DJ, sound design and music production or recording bands in studios, to live sound reinforcement – This journey (with its fair share of ups and downs) has been epic! He concludes.

SNL Pro Ups the ante...

(Continued from page 30)

Commenting on the mixing for the show, Mavani says, “We were using a total of 11 consoles, nine in use while two were on standby. These were 5 DiGiCo SD10 and 1 SDS, 3 Avid S6L and a couple of backups. Only Dua Lipa carried her own desk, rest was all from us.”

coordinating with all the international engineers, as well as the domestic engineers. Cijith was working on designs for more than two months using various versions of speaker layouts that was being modified based on seating plans and ticket sales forecasts,” informs Mavani.



SNL Pro delivered eye-catching pyrotechnics for the OnePlus Festival

Crew

“Once Wizcraft formally confirmed us, we were directly connected with all the artists, their engineers and their management to coordinate on the Technicals. Cijith was the audio Systems Engineer and the main person

The SNL Crew for the show included Jagdish, who was in charge of all the stage gear, backline equipment, and RF. Bruce who was looking after the entire Setup / Rigging of the Roof Trussing system, audio towers while Mikhail and Kewal were taking care of all the pyro-

Main Gear List

L-ACOUSTICS K1	40	Speakers
L-ACOUSTICS K2	92	Speakers
L-ACOUSTICS KARA	18	Speakers
L-ACOUSTICS ARCS II	8	Speakers
L-ACOUSTICS SB 28	64	Speakers
L-ACOUSTICS X15 HIQ	16	Speakers
L-ACOUSTICS LA8 RAK (LA8 x 3)	32	Amps
L-ACOUSTICS LA12X RAK (LA12X x 3)	22	Amps
LAKE LM 44	2	Amps
L-ACOUSTICS P1	1	Amps
DIGICO SD 10	5	Consoles
DIGICO SD 5	1	Consoles
AVID VENUE S6L	3	Consoles
Sennheiser EM 5000	4 Channels	Mics
Sennheiser EM 6000	8 Channels	Mics
Shure Axient Sets	8 Channels	Mics
Shure PSM 1000	24 Channels	IEM
Sennheiser 2000 Series	24 Channels	IEM

technics, programming and planning with the SFX team.

“Over 25,000 people showed up for this show at the DY Patil stadium. The

stadium is massive; it’s got space and it’s got size and India is now getting the A list artists. This is really opening up the market,” enthuses Mavani.

The Bright Spark

BIG STAGE DEMONS

Viraf Pocha



Most Lighting Designers consider Pink Floyd's Light shows as the Holy Grail.

I certainly have sat there many hours trying to follow things and then just giving up at the complexity. The Stage looks so simple, and then it just comes alive.

I guess we are familiar with their album 'The Wall'. But did you know that the album had its roots in an (at that time shocking) incident where Roger Waters was getting disillusioned on the size and scale of their shows.

The Bands success made it imperative that they created massive touring shows, with amazing special effects. Somewhere in there Waters felt trapped that the spectacle was swallowing the music. Being a purist and standing very close to his work and music, he was distressed that the fans were missing the point of his music's message. What was the point of staging all these massive shows?

At one particularly crazy concert – Waters just lost it and spat at the audience from the stage. The Band was horrified, Waters most of all. For us, sadly, spitting is a part of our lives. But for well brought up English Boys – this was like the most damaging insult to their loyal fans.

The incident traumatised the band. If you follow the bands interviews, it's very much at the top of their minds and their shame.

The great artists that they are – they turned inwards and used this experience to fire their creative juices and the album *The Wall* was created.

The Wall centres around an artist that uses his life's experiences to build a wall around himself to shut himself off from the world around him. To live in isolated bliss. But the work ends with him realising the need for love and human contact that he decides to 'tear down the wall'.

Touring behind this great album – the band decided to actually build a wall – brick by brick between themselves and the audience, and end with the entire wall coming crashing down.

So a work that started life as a plea for more intimate sharing of

music, ended up becoming the first really BIG Show that the world had ever seen.

It encompassed every device possible. Projections, larger than life stick figures, flying props – everything you could imagine. The genius of it all was that it all came together and just worked. On many levels. As a cohesive piece of music, as a stage spectacular and as a celebration of the human spirit. It meant many things to many people. To this day I hear fans talk about the shows influence on so many levels. Musically, Technically and Emotionally. If you haven't already, I urge you to



Pink Floyd decided to actually build a wall – brick by brick between themselves and the audience and end with the entire wall coming crashing down. This ended up becoming the first really BIG Show that the world had ever seen.

experience it.

Everything you ever wanted to learn about BIG STAGE shows is in there.

Today we are swamped with technology that makes shows on this

scale routine. Even the biggest shows seldom make the news cycle unless it is to report a tragedy.

As I write this – in a few days **U2 will assemble the largest LED screen ever - in the world.** And it's happening in our backyard.

Just a few short years ago – Rang Bhuvans capacity of 2000 fans was a large happening that the city was buzzing over. Today a 50,000 plus concert in a Cricket Stadium is a routine thing. The diehard fans seem to have almost sold out the stadium so there is almost No buzz in the media

about the city.

Like Waters found out decades ago – The bigger you get the more inconsequential you become. For whatever reason the bands response was to top themselves in scale. Musically and Visually.

The whole reason for this reference to Pink Floyd, is to inspire the young guys out there to reach for the impossible. To use the tools available today and use them wisely and well.

To stitch together great shows on great scale that reaches out to the people today. To encourage them to drop their phones and step out to experience a community of like-minded energetic young people that want to explore the edges of the human experience.

A while ago one of our leading stage technology houses – was demonstrating computer controlled motors that could pick up people, props and everything in between and spin them around a 360 degree axis at will. I was impressed. But unmoved. There was No story, No flair, No reason for why a guy needed to go from here to there. That's just me – If there is No motivation – it's not art.

What was most amusing was that the primary market they were after was the 'Wedding Market' always looking for innovative ways to '...Here comes the bride'. The idea of a jewellery laden blushing Bride, dressed in her finest suspended many feet in the air has to be the most ridiculous thing ever.

If I were the groom – I'd pay these guys to fly me and my bride outta the reception. What say You?

But hey – That's a big stage event if there ever was one. At least for one couple.

That's the amazing progression BIG STAGE events have seen.

Technology that was cutting edge for one of the biggest bands in the world a few years ago, is now being used in Bhatinda for a groom to meet his – perhaps for the first time, on the mandap.

Which brings me to the most important aspect of BIG STAGES. What you see and what you hear.

Our Sound guys have got that aspect covered. Rarely do you hear complaints that the band could not be heard. How good the sound was remains a discussion outside my area of expertise.

Big Stages need Big arenas. From even a few rows back the performer begins to look like a stick figure. So you have to MAKE IT COUNT.

You have to be telling a story. You have to engage your audiences. The audience has to go home happy.

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

The whole reason for this reference to Pink Floyd, is to inspire the young guys out there to reach for the impossible. To use the tools available today and use them wisely and well. To stitch together great shows on great scale that reaches out to the people today.



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Turntables

Spotlight on DJ Turntables launched in 2018 - 2019.

Audio Technica AT-LP140XP

The AT-LP140XP is a fully manual professional DJ turntable that features a high-torque direct-drive motor and anti-resonant, mass-damped, platter to ensure stable, on-axis rotation.

Main Features include:

- High-fidelity audio and professional DJ performance
- Direct-drive, high-torque servo motor with speed stabilization
- Fully manual operation
- Adjustable dynamic anti-skate control
- Selectable 33/45/78 RPM speeds
- AT-HS6 universal 1/2"-mount headshell and AT-XP3 DJ cartridge with 0.6 mil conical bonded stylus
- Balanced S-shaped tonearm with hydraulically damped lift control, height adjustment, and lockable rest
- Dedicated phono-level output (5.5 mV)
- Stroboscopic platter with speed indicator
- Forward/reverse operation and variable pitch control with quartz speed lock
- Popup stylus target light for easier cueing in low light
- Damped base construction for reduced low-frequency feedback coloration

Technical Specifications:

Turntable

- Drive Method: Direct Drive
- Type: 3-speed, fully manual operation
- Motor: High-Torque DC Motor
- Speeds: 33-1/3 RPM, 45 RPM, 78 RPM
- Pitch Variation: +/-8% or +/-16% or +/-24%
- Turntable Platter: Die-cast aluminium
- Starting Torque: 2.2 kgf-cm
- Wow and Flutter: <0.2% WRMS (33 RPM)
- Signal-to-Noise Ratio: >50 dB
- Output Level: 5.5 mV nominal at 1 kHz, 5 cm/sec



- Power Supply Requirements: 115/230V AC, 60/50 Hz
- Power Consumption: 4.3 W
- Weight: 10.0 kg

Cartridge & Stylus

- Model: AT-XP3
- Type: VM Dual Magnet
- Output Voltage: 5.5 mV (@ 1.0 kHz, 5cm/sec)
- Vertical Tracking Force Range: 2.0 to 4.0 g (standard 3.0 g)
- Stylus Shape: Conical
- Stylus Size: 0.6 mil
- Recommended Load Impedance: 47,000 ohms
- Weight: 6.2 g

Headshell

- Model: AT-HS6
- Weight: 9 g

Tone arm

- Type: Balanced S-shaped tonearm with detachable headshell
- Effective Length: 230.5mm
- Overhang: 16mm
- Maximum Tracking Error Angle: Less than 3 degree
- Applicable Cartridge Weight: 3.5 - 8.5 g
- Anti-skating Range: 0-4 g

Reloop RP - 8000 MK2

The Reloop RP - 8000 MK2 is a turntable designed for a seamless integration with the Serato DJ Pro, offering controls of up to 7 different performance modes.

Main Features include:

- Performance pads to control the speed of the platter
- Extra-large, highly responsive performance pads with multi-colour LEDs
- 22 scales with option to create up to 9 custom scales
- Pitch bending function via speed select buttons in Platter Play mode
- Independent pad modes (when used in conjunction with the ELITE mixer)
- More powerful starting torque (adjustable from 2.8 - 4.5 kg/cm)
- Newly-developed, height-adjustable MK2 tone arm base (VTA)
- Can be connected to two mixers at the same time
- Quartz driven hybrid turntable instrument with upper-torque direct drive
- MIDI compatible control section consists



of multi-encoder, 8 large LED pads and 2 user modes

- Digital LC display for pitch, BPM, scale, key, deck assignment and firmware settings
- Precise motor control with 3 speeds (33 1/3, 45 & 78 RPM)
- High-resolution pitch fader (0.02 % resolution)
- Phono and line out (no grounding required)

Technical Specification:

Turntable:

- Drive: quartz driven upper-torque direct drive
- Motor: 16-pole, 3-phase, brushless motor
- Turntable speeds: 3 speeds, manual (33 1/3, 45, 78 RPM)
- Starting torque: 2.8 - 4.5 kg/cm (adjustable)
- Start-up time / change to RPM: < 0.2 sec
- Wow and flutter: 0.01% WRMS*
- S/N ratio: > 55 dB (DIN-B)
- Brake system: electronic brake

Platter:

- Material: die cast aluminium
- Diameter: 332 mm
- Weight: approx. 1.5 kg

Tone arm:

- Type: universal, static balanced, S-shaped
- Effective length: 230 mm
- Overhang: 15 mm
- Tracking error range: < 3°
- Offset Angle: 22°
- Stylus Pressure: 0 - 4 g
- VTA setting range: 0 - 6 mm
- Usable weight of pick-ups: 3.5 ~ 8.5 g (incl. headshell 13 ~ 18 g)
- Anti-skating range: 0 - 3 g
- Effective tone arm mass: 30 g

Connections:

- 1x PHONO/1x LINE out (gold-plated), 1x GND earth connection, 1x USB port (type B)

General:

- Dimensions: 458 (w) x 354 (d) x 144,6 (h) mm
- Weight: approx. 11.8 kg

Stanton T92 M2 USB

The T.92 M2 USB is a direct-drive professional turntable with built-in USB connectivity. With features such as key lock and a pitch range of $\pm 12\%$, the T.92 M2 USB fits effortlessly in with any DJ setup.

Main Features include:

- USB and S/PDIF Outputs for transferring Music from Vinyl Records to Mac or PC
- Pitch Control Fader with DSP Key Lock
- Stanton 300 Cartridge comes pre-mounted on headshell
- S-Shaped Tone Arm for Lower Distortion and Superior Fidelity
- 3 Playback Speeds (33, 45, and 78 RPM) and Quartz Lock
- RCA Stereo Outputs (Phono / Line Switchable)
- 2 Start/Stop Switches for Mix or Battle Setup
- Full version of Deckadance DVS Software included

Tech Specifications:

- Frequency Response: 30 Hz to 20 kHz $\pm 1/-2$ dB/ RIAA filter
- THD+N: $< 0.03\%$ at 1 kHz
- S/N Ratio: Line < -65 dB=dB
- Digital Output (SPDIF) 0.5Vp-p (Load 75 ohms)
- Type: 3-speed full manual
- Motor: 8 pole, 3 phase, brushless DC motor
- Speeds: 33 1/3 and 45rpm and 78 rpm
- Wow and Flutter: Less than 0.15% WRMS (JIS WTD) with 33 1/3 rpm
- Pitch Controls: $\pm 8\%$, $\pm 12\%$
- Starting Torque: More than 1.6 kgf.cm
- Starting Time: Less than 1 sec with 33 1/3 rpm
- Braking Time: Less than 1 sec with 33 1/3 rpm
- Braking System: Electronic Brake
- Audio Output: Phono/Line output
- USB Function: A/D, D/A 16BIT 44.1KHz or 48KHz USB SELECTABLE
- Dimensions: 452(W) x 370(D) x 143(H)mm
- Weight: 8.6Kgs

Tone Arm Section Measurement

- Tone arm type: Static balanced S-Shape tonearm for lower distortion and reduced record-ware
- Effective Arm Length: 230.5mm
- Tracking Force Range: 0-3g
- Applicable Cartridge Weight: 3-4g



Technics SL – 1200 MK7

The SL-1200MK7 is the newest model of the SL-1200 Series. It has a coreless direct drive motor for improved performance. The MK7 looks almost identical to previous models, the MK5 and MK6, but with a slightly more refined all-black design.

Main Features include:

- Coreless direct drive motor designed to eliminate cogging at any speeds
- Built-in microcomputer uses technology from the Panasonic's Blu-ray disc products to control the motor and better accuracy
- Replaceable phono and power cables
- Additional brake / torque adjustments
- Reverse platter play
- Fully digital pitch control fader with $\pm 8/16\%$ ranges (a X2 button at the top of the pitch fader allows doubling)
- LED strobe that can illuminate in red or blue colors
- White LED pop-up stylus light with a high brightness

Technical Specification:

Turntable Section

- Drive Method: Direct Drive
- Turntable Speeds: 33 1/3, 45rpm (with switch 78 rpm)
- Starting Torque: 0.18N·m / 1.8kg·cm (1.56 lbs-in)
- Build-up Characteristics: 0.7 s. from standstill to 33 1/3 rpm
- Wow and Flutter: 0.025% W.R.M.S.
- Turntable Platter: Aluminum die-cast
- Diameter: 332mm (13-5/16")
- Weight: Approx. 1.8kg (4.0 lbs) (Including slipmat and slipsheet)

Tonearm Section

- Type: Universal, Static Balance
- Effective Length: 230mm (9-1/16")
- Overhang: 15mm (19/32")
- Arm Height Adjustment Range: 0 – 6mm
- Stylus Pressure Adjustment Range: 0 – 4g (Direct Reading)
- Head Shell Weight: Approx. 7.6g
- Head Shell Terminal Lug: 1.2mm ϕ 4-pin terminal lug

Terminals

- Audio Output: PHONO (Pin Jack) x 1, EARTH TERMINAL x 1

General:

- Dimensions (W x H x D): 453 x 169 x 353mm (17-27/32 x 6-21/32 x 13-29/32 inch)
- Weight: Approx. 9.6kg (Approx. 21.2lbs)

Thorens TD 402 DD

The new TD 402 DD Thorens is a direct drive turntable that comes with auto shut off function and with pre-installed AT 95VM E cartridge by Audio Technica. TD 402 DD comes with dust cover and a MDF plinth in piano black and high gloss walnut veneer on damping black rubber feet with silver rings.

Main features include:

- Stable and super silent direct drive
- Auto Start and Auto Stop
- Switchable integrated phono pre amp
- Carbon tonearm
- Detachable headshell
- Pre-installed cartridge AT VM95 E

Technical Specification:

Turntable section

- Motor DD Motor
- Speed 33 1/3 RPM, 45 RPM
- Rotation Speed Variation $\pm 0.33\%$
- Wow and Flutter 0.15%
- Signal-to-Noise Ratio 67dB or higher
- Platter Aluminum Die-cast
- Diameter of Platter 12", 300mm

Tonearm section

- Type Static Balance, Straight
- Effective Arm Length 8.8", 223.6mm
- Stylus Pressure Range 0 to 4g
- Supported Cartridge Weight 3.5 to 6.2g
- Overhang 18.6mm
- Anti-skating Adjustment Supported

Cartridge section

- Type MM type (Audio-Technica VM95E)
- Stylus Construction Bonded elliptical Diamond
- Frequency Response 20Hz to 22kHz
- Channel Separation > 20 dB
- Channel Balance 2.0dB
- Vertical Tracking Angle 23 degrees
- Supported Load Impedance 47k ohms
- Output Voltage 4mV (1kHz, 5cm/sec.)
- Stylus Pressure 2.0g ± 0.2 g
- Cartridge Weight 6.1g



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

"HOMEGROWN MUSIC PRODUCERS ROUND OFF THE YEAR WITH A POPPING ARRAY OF RELEASES"

by **Abhimanyu Malhotra**, The Sonic Arts Co.

The last few months have seen a slew of new releases from homegrown artists across a range of genres. With debuts from new and upcoming talent, to quality follow ups from established names, this is certainly an exciting time to have your ears on the Indian music industry. Simultaneously it is quite impressive to witness the range of styles that are developing within our country; permutations and intermingling of classic, traditional instrumentation with modern synthesis and drum production. The rise and popularity of such quality independent music is in turn challenging the status quo of India's Bollywood centred music identity, and the reach and influencing power of independent labels such as *Artist Originals*, *Azadi Music* and *Gully Gang Records* is comparable to that of many major motion picture soundtracks and popular dance songs. Needless to say it is going to get trickier for me to decide which releases to highlight, but my basic philosophy is to try and cover a range of different styles and sounds. And so for this review we'll be looking at a couple

of releases from different musical backgrounds and sensibilities.

Dhuan Dhuan

First up is a single from singer-songwriter Ankur Tiwari titled '*Dhuan Dhuan*' that was released on JioSaavn's Artist Originals music label. Aptly named for the heavy smog filled conditions that have recently been engulfing cities like Delhi, the track is driven by his trademark sound with poetic and hard hitting lyrics. The production is top

notch with beautiful stereo imagery, intimate, warm vocals and a rich clarity to the instruments. This genre of music doesn't usually have much presence in the bass frequencies (say below 300 Hz) however it was quite a pleasant surprise to find well-rounded percussion elements sitting tightly with a smooth bass-line in this low-mid space. The style is very nostalgic, inspired by the dreamy and romantic soundtracks of the golden age of Hindi cinema. Adding to the satirical narrative of the track, the lyr-

The production of *Dhuan Dhuan* is top notch with beautiful stereo imagery, intimate, warm vocals and a rich clarity to the instruments. This genre of music doesn't usually have much presence in the bass frequencies (say below 300 Hz) however it was quite a pleasant surprise to find well-rounded percussion elements sitting tightly with a smooth bass-line in this low-mid space.



ics are graceful yet evoke the harsh reality of the dire situation at hand. A quality release that showcases the creativity of the artist, executed with smart intent both on the musical and lyrical front.

Kaun Hai Tu

Gully Gang Records has been on fire lately, touring with packed



STUDIO PAVILION AT PALM EXPO 2020 | HALL 1

MUSIC RECORDING, MIXING, POST-PRODUCTION EQUIPMENT

shows across the nation. Founded by Divine, the label comprises of a talented group of writers, emcees and rappers that each have a signature sound, flair and style. Latest on their catalogue is the heavy and bouncy Hip Hop single 'Kaun Hai Tu' by Shah Rule and Raja Kumari, who have written the track along with D'Evil. With a brooding trap beat, the arrangement of this track is designed to deliver a punch and it does just that. Shah Rule's strong vocals work together with a solo snare on the upbeat in building tension as the track kicks off. The instrumentation on the first line of the hook is pulled out and then the full beat drops with the second line, and personally this is a production technique that I really enjoy. It gives the hook much needed space while building the anticipation of the beat even if just for a moment. This makes the hook much more memorable, and it is no surprise to see crowds chanting the hook at festivals where the track is performed. With stellar production and catchy lyrics, this is definitely a strong single that has been around charts for a few weeks now. Produced by Shah Rule (who has also mixed and mastered the song), Karan Kanchan and Josh Petruccio.

Endless

Veteran composer and multi instrumentalist **Shitalchandra Kulkarni** has released a new guitar solo album named 'Endless' through the

Songdew platform and is a treat for lovers of classic metal and heavy rock featuring big orchestrations, epic narratives and wide arrangements. This particular style could be classified as progressive metal, influenced by the long-form movements of acts such as Dream Theatre and Stratovarius. There is a strong focus on musicality of the instruments, specifically on guitar technique demonstrated through freeform solos and changeups. The album features a balance of digital synthesizers that give the production a nice sparkly high end, and live guitars, pedals and amps to really bring that warm analog crunch to the sound. Recorded through **Rhode, AKG** and **Neumann** mics, the textures on the guitars are quite enjoyable, well mixed with crunchy and clean distortion. Shitalchandra has composed and produced the album and recorded at **Chords India Studio** in Pune. The mix engineer is **Shridhar Deshpande** and mastering duties were performed by **San Page**.

Visa On Arrival

'Desi Bass', in a nutshell, is the general term given to the mix of modern EDM and trap beats with strong Indian inspired topline, "snakecharmer" melodies and digital synths that imitate the timbres of instruments like a Shehnai or Nadaswaram. The catchy, high pitched melodies work very well indeed with driving kick and bass sounds, and this type of dance music has devel-

oped a huge following around the country. Amongst a few flag bearers of this genre is veteran producer **Suhrid Manchanda aka Su Real**. Fresh off his win on Amazon Prime's The Remix competition, Su has just released his third album titled 'Visa On Arrival'. True to its name, the release takes you on a global bass tour, offering up reggaeton, dancehall, moombahton and more, yet bringing a desi twist in one form or another. The production style is tight, big and punchy, dynamic at the right parts with a consistent balance between drum elements, vocals and top-lines. The tracks are all designed to fit right into DJ sets, tailored for the dance floor with build ups and heavy bass drops. And although this arrangement formula can get repetitive, Su manages to keep it fresh by featuring a different artist or collaboration over ten of the twelve track album. Guest artists featured include emcees and vocalists **MC Zulu, General Zooz, Diggy Dang, Delhi Sultanate, GD47, MC Eucalips**. Singer **Tanya Nambiar**, scratch turntablists **DJ Skip** and **Doni Brasco** and producers **DISTORT** and **Dutty Deedz** are also featured. With so many partners in crime, the bass music producer really brings some interesting elements to the mix. The track 'Lala' with punjabi rapper **GD47** is a perfect example, where punjabi rap vocals meet infectious tropical beats and really sit well together in delivering strong rhythms for the dance floor. Produced by

An Unequal Music is a column that highlights quality Indian music releases across genres and styles. The objective is to discuss each release from a technical and creative perspective and what makes it special and unique. My process is to breakdown the production components, talk about musicality, arrangement and instrumentation. My background as a music producer began a decade ago in Los Angeles where I had the opportunity to work with award-winning studios and bands. I am currently a full-time music producer working with directors and artists across different genres.

www.producedbyabhi.com

Su in his studio in Delhi and mixed and mastered by **Dreadsquad** from Poland.

For the purposes of this review, the aforementioned music was all heard through **Audeze LCD2** headphones and **Adam A5X** studio monitors.

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PIONEER DJ LAUNCHES ITS NEW POWERHOUSE - XDJ-XZ

Pioneer DJ has launched its new all-in-one unit the XDJ-XZ. The XDJ-XZ is a professional all-in-one DJ system that's perfect for events, a bar or club, or your private studio. The XDJ-XZ gives you all the features you need to get the job done.

The on-jog screens from the DDJ range have made the leap to the new XZ, as well as full-size jog wheels from the CDJ2000nxs2. There are also eight performance pads per channel for sample, cue, loop trigger as well as stutter FX. The

compatible with Serato DJ (this will come with a firmware update in 2020) and rekordboxDJ. This gives the freedom to choose the preferred software and enjoy the benefits of the all-new Hybrid mode.

Support For Various Media and Different Performance Styles

The XDJ-XZ gives you the freedom to play the way you want. Plug-in USB drives loaded with rekordbox-analyzed tracks or connect your PC/Mac to use the professional performance application, rekordbox dj. You can even play tracks directly from your rekordbox library via Link Export mode, so you don't need to export playlists from your laptop to USB drives. Connect turntables, samplers, smartphones, and more, to channels 3 and 4 while Pro DJ

industry-standard kit

- 4 channel mixer (2 channel standalone/laptop control plus 2 channel multiple inputs) with DJM-900NXS2 look and features including beat and color hardware effects.
- Connect CDJs and turntables, the XDJ-XZ can be the heart of your setup
- High-quality audio interface
- Compatible with both rekordboxDJ (license included) and Serato DJ
- DVS ready (please note, upgrades are required)
- Pro-DJ link enabled - connect other devices with ease
- 2 mic inputs with 3 band EQ on each with feedback reduction



This 4-channel system features a professional layout with flexible media support, 14 professional Beat FX and 6 Sound Color FX, a new three-band EQ on the master channel and trigger software-specific features using the 16 multicolored Performance Pads. It is ideal for mobile DJs playing in less-than-ideal acoustic spaces.

A new feedback reducer also helps prevent 'howling' when using the

XDJ-XZ mimics club setups and offers many of the features from the NXS2 CDJs, also offering a 7" touch screen display. Three USB inputs will make back-to-back sets and DJ changeovers that little bit easier.

The XDJ-XZ also supports a new Link Export feature, so you can link together different Pioneer DJ devices like the 2000nxs2s, XDJ-XZ, and the DJS-1000. The four-channel mixer is

Link enables you to browse tracks from CDJs via the 7-inch touch screen on the XDJ-XZ and sync them with your mix.

Main features of the Pioneer DJ XDJ-XZ include:

- CDJ-2000NXS2 style and size jogwheels
- In-jog displays
- Central touch screen, offering operability in line with the

SERATO ANNOUNCES SERATO DJ LITE 1.3.2

This update includes three new features which will make mixing itself easier, as well as understanding Serato DJ software and how to use it to its full potential.

BEATGRIDS:

A Beatgrid is a series of markers that point to the location of beats within the track. Beatgrids are set automatically during the analyzing process but can also be edited manually. Using Sync in Serato DJ Lite will now snap to these.

Free demo tracks to learn with:

Serato DJ Lite now comes loaded with six demo tracks for you to get mixing with straight away. Included are three House and three Hip Hop tracks, these will automatically appear in your library.

In-app onboarding

A new learning experience for first time users to get started with Practice Mode. Built right into Serato DJ Lite, it has never been easier to learn how to mix.

MITA SOUND ACQUIRES NEW TOUR1 SYSTEM FROM PIONEER DJ, FACILITATED BY DEV ELECTRONICS

Vinod Anjara of Mita Sound is the proud owner of the latest Pioneer DJ Tour 1 system in the country; with the sale facilitated and commissioned through Dev Electronics - India's most preferred audio solution partner.

Mita Sound & Studio was

established in 1992 as a rental solutions company based in Mumbai boasting a unique strength of committed and passionate professionals.

The company has gained reputation for providing high quality DJ solutions including consoles for Clubs and Pvt

Parties; with the gear solutions including top of the line products from PioneerDJ like the CDJ 350 / 850 / 900NXS / 2000NXS / 2000NXS2. Now the power-packed and elite Tour 1 System joins the list; with Mita Sound making the Tour 1 system available for hire.

Vinod Anjara of Mita Sound said, "We have been dealing with Dev Electronics on numerous occasions in the past; it was obvious to us that we would choose to facilitate this purchase from Dev Electronics alone. The buying experience is always smooth, and the level of support we've received from the entire team at Dev Electronics has been unparalleled."



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RELOOP LAUNCHES RMX-10 BT A COMPACT 2-CHANNEL DJ MIXER

Reloop has announced the RMX10BT, a basic two-channel DJ mixer with Bluetooth.

The mixer would be useful in a basic home or very small venue DJ set-up where the user also wants to either stream tracks from devices in to a DJ set, or just have a Bluetooth source running as background music when there is no DJ playing.

The mixer has three-band EQs and gains for each channel, a replaceable crossfader, master and record outputs, 1/4" headphone and mic jacks, and inputs for two line sources and two phono. Bluetooth can be routed to either channel. Some of the features

of the RMX-10 BT are:

- 2-channel Bluetooth DJ mixer in compact construction
- Built-in Bluetooth connectivity: wireless music streaming from your smartphone/tablet directly to your mixer
- Flexible Bluetooth routing on both channels
- Replaceable 45 mm crossfader and two smooth-running line faders for mixing
- Channel strips with 3-band EQ and gain adjustment
- 6.3 mm headphones output with volume control and cue mix function
- 6.3 mm mic input with dedicated volume control
- Master signal LED level chains



AUDIONAMIX'S HIGH-FIDELITY AI SOURCE SEPARATION TECH RECOGNIZED BY THE PROFESSIONAL MUSIC INDUSTRY

Audionamix's artificial intelligence-based audio separation technology has received two distinctions from the professional and electronic music industries. The company has been crowned the winner of the 2019 ADE Tech Companies 2 Watch (C2W) competition. In addition, the company's standalone XTRAX STEMS software has been honored as a nominee for the forthcoming 2020 NAMM Technical Excellence and Creativity (TEC) Awards.

Audionamix's advanced AI programming uses deep neural networks to separate individual components from an audio file, including speech, vocals, bass, and

drums. Its separation technology automatically creates stems from compressed and high-quality audio files over the full spectrum of audible frequencies, up to 22 kHz. This technology opens up creative possibilities for DJs and remixers worldwide.

At the ADE Tech Companies 2 Watch (C2W) competition the quality of Audionamix's AI-created stems and the simplicity of the XTRAX STEMS workflow earned the company its victory at the competition. This accolade garners promotional support from the world's largest electronic music festival and conference over the



course of the next year. Adding another honor to its repertoire, XTRAX STEMS is the only software

solution nominated in the Best DJ Production Technology category of the 2020 TEC Awards.

RIK PARKINSON FROM PIONEER DJ MOVES TO DENON DJ

DJ Industry Veteran Rik Parkinson has joined Denon DJ as Director of Strategic Product Development. After 15 years with Pioneer DJ, Parkinson's expertise will drive DENON DJ to new heights of innovation and performance.

Denon DJ recently announced the move saying in this newly created position, Parkinson will work with the team of product and marketing professionals to build on the success of recent products like the Denon DJ Prime 4 and

the SC5000M media player. Parkinson brings with him a wealth of intense DJ industry experience. His in-depth knowledge of the market coupled with his technical product expertise gives Parkinson a unique vantage point from which he will help further the expansion and innovation of DENON DJ's product line-up.

Pat Sullivan, President of inMusic said, "Rik is a perfect fit for the product-focused culture at DENON DJ. When the opportunity to work with Rik presented itself, it was a no

brainer that he would be a great addition to our very experienced DJ team for a market that is growing rapidly for us. He brings a lifelong passion for the DJ community and a true understanding of its rapidly evolving landscape. His experience and knowledge of the market, combined with DENON DJ's respected products and innovative technologies, will help us create game-changing products for the future DJ. We couldn't be more excited to see what Rik will do at DENON DJ."



Rik Parkinson

DJING WITH HERCULES

For Hercules DJ and Guillemot Corporation, India is one of the focus markets worldwide and in the Asia Pacific region. In 2019, the company launched a range of Hercules DJ Products in Large Format Retail Stores (LFR). Recent launches include:

HERCULES DJCONTROL COMPACT

The Hercules DJControl is an ultra-mobile compact controller that can be carried anywhere - in a backpack or shoulder bag. It is small but powerful and is equipped with all the essential features like creating loops, adding effects, and playing samples, everything you need to get started in the DJing world.

The DJControl Compact has two decks and two jog wheels. The Jog wheels can also be used to control the playback speed of the track. It has four modes per deck (loop, fx, sample, cue). Four pads per deck and ten control buttons including a SHIFT command that allows doubling all the pads' control.

HERCULES DJCONTROL AIR S

DJControl Air S is guided by simplicity and a ton of features. It comes complete with rotary lights that can be connected to the computer via a USB to give a disco ball effect. The Air Control feature converts the distance between the hand and the sensor into a gradual MIDI command.

The DJControl Air S is integrated with a built-in audio interface, a proximity sensor, two decks, and two pressure-detecting jog wheels.

The jog wheels also control the pitch bend function and navigation within tracks. The Air S has a dedicated SYNC, Cue, and Play/Pause Buttons, 4 velocity-sensitive pads per deck that control three modes loop, fx and sample. The Controller has three-band equalization with potentiometers, one volume fader per deck, and one crossfader.

HERCULES UNIVERSAL DJ

The Hercules Universal DJ controllers have a built-in Bluetooth wireless technology that allows mixing using a smartphone, laptop, or a tablet using My Remote via the dedicated DJUCED Master App. Control the mix from anywhere and create combos with loops and effects using just one finger.

The Universal DJ has an integrated built-in audio interface with two RCA outputs for speakers. It features two decks, one central mixer; two jog wheels, four modes per deck (loop, fx, sample, hot cue). There are four pads per deck with multicolored lighting and dedicated SYNC, Cue, and Play/Pause buttons. It has three-band equalization with volume fader and crossfader (treble, medium, bass), one volume fader per deck and one crossfader.

HERCULES DJCONTROL INPULSE 300

Hercules introduces the first-ever range of DJ controllers that helps to learn how to mix. The DJControl Inpulse 300 has exclusive features and comes with the DJUCED software. It has light guides on the controller to learn the right moves, the Intelligent Music Assistant (IMA) to help pick the best songs, the ENERGY feature



Hercules Universal DJ

to manage the party mood, and the DJ Academy with its onboard video tutorials. The DJControl Inpulse 300 also offers 16 pads, 8 modes, large jog wheels, effects on par with pro controllers, and much more.

The DJControl Inpulse 300 comes with two decks, touch detection on jog wheel, eight pads, and eight modes. It also features two rotary fx knobs and dry-wetSlip, quantize, loop in/loop out keys. The controller comes with one filter, three equalizers, one gain knob, one volume fader/deck, crossfader, VU meters per deck, and master VU meter.

HERCULES DJCONTROL STARLIGHT

The DJControl Starlight packs all the features needed to mix and scratch with Serato DJ Lite. It is Ultra-compact, ultra-light, ultra-practical, and ultra-unique. With its built-in audio interface, the DJControl Starlight offers pre-listening in the headphones to play the mix on speakers. The system is comprehensive and boasts all the essential features such as bass equalization/ filter knobs for smooth transitions or touch-sensitive jog wheels for easy scratching. Additionally, it has a bright and powerful RGB backlighting with strobe effects.

The DJControl Starlight has a built-in audio interface with two decks, touch detection jog wheel, backlit base, four pads, and four modes (hot cue, loop, fx, sampler). It also features a crossfader, one bass EQ/filter knob per deck and to control the lighting of the base it has 7 modes LED off,

LED on, Beat 1 Program, Beat 2 Program, Master Volume Program, Waveform Color Program, and Cue point Color Program.

HERCULES DJ STARTER KIT

A comprehensive, easy-to-carry, and easy-to-install solution the DJ Starter Kit includes the Hercules DJControl Starlight controller, Hercules DJMonitor 32 speakers, HDP DJ M40.2 headphones, and Serato DJ Lite. The kit is compact, light, and practical and is packed with all the features needed to get into DJing.

The Starlight Controller features an integrated audio interface, touch-sensitive jog wheel, four pads, four modes, a tempo fader, bass EQ/filter knobs, and deck volume knobs and a clear and powerful RGB backlighting with a



unique strobe effect.

The Active Monitor Speakers has an RMS output of 2 X 15 watts with peak power at 60 watts. Frequency response of 60 Hz to 20,000 Hz with dual bass vent, shifted tweeter for cleaner rendering.

The HDP DJ M40.2 headphones have efficient noise insulation, swivel round for easy one-ear monitoring and ensures a high-level of audio output.



Hercules DJ Control Air S

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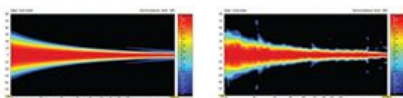
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