

# PALM<sup>TM</sup> technology

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

EXPO PROMOTION



INSIDE:  
2020  
Year Planner

**STONEWATER**  
Rocks **SUNBURN**  
WITH  
**FULL SPECTRUM**  
**SOUND**

11 Questions with  
**Kalle Hvidt Nielsen**  
CEO,  
*DPA Microphones*

## THE MAKING OF **U2** **JOSHUA TREE TOUR,** INDIA

FOH + Stage Production  
JANUARY - FEBRUARY 2020

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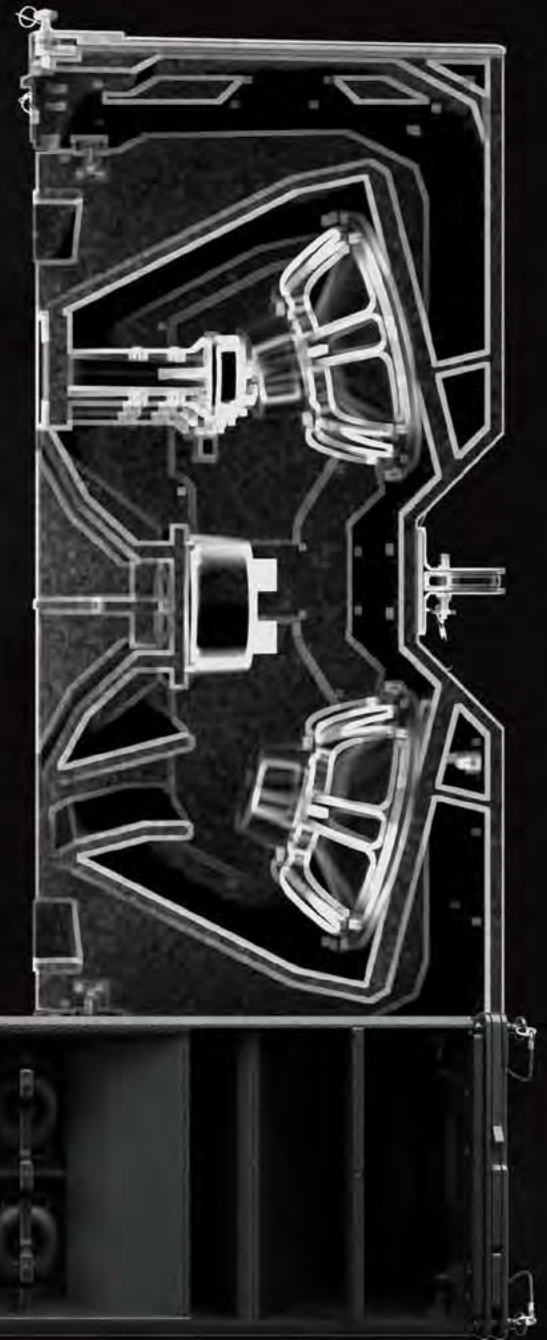
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## Stage Tech

The news from China hasn't been too encouraging. With factories shuttered down in the country to contain the coronavirus outbreak, disruption of component supplies and potential supply-chain problems is looming large over several industries, including the the global pro audio and lighting industry.

### Make In India

This is a stark wakeup call to localise production and manufacture, so that needs of the market is not affected. There is no technology or market demand hurdle in India and the government is supporting local "Made in India" manufacturing more than necessary. The government has especially shown sensitivity towards the needs of the MSME sector and is committed to support growth with various schemes and initiatives.

Indian manufacturing is reputed to be of high quality for many products across industries and furthermore its geographical location gives manufacturers a competitive export advantage. Therefore, there is no reason why production cannot be localised.

Infact the listing of **Top 50 products** in this issue (pg.46) without any embarrassment features several "Made in India" products. Innovative solutions are no longer the prerogative of European countries alone and companies like **Ahuja** and **Sonodyne** are prime examples of leading brands boasting of manufacturing facilities with in-house R&D labs churning out quality products with exports to major nations. The pro audio and lighting industry has been transformed by wave after wave of remarkable innovations and the Top 50 features some remarkable products, which were launched in 2019.

Sister publication - **AV-ICNx magazine** which focuses on Audiovisual equipment, technology & solutions also spotlights top 25 AV hardware in its Jan-Feb issue. The magazine, which is a year old is now gaining ground in the Indian AV industry and continues to evolve with every successive edition. Log on to <http://www.av-icnx.com/magazine> to access the latest audio visual and systems integration news from across the country.

*The international shows up the scale, else stage production is predictably LED and lighting on trussing.*

Another innovative product featured in this issue is **STONEWATER Audio Labs' Full Spectrum (FSS) Sound System**, which debuted at Sunburn Goa's Psychedelic stage in December last year. Reportedly, it is the first time ever, in India, that one could experience the entire spectrum of the human auditory potential, from 20Hz to 20 KHz, at a major mainstream outdoor event. More on pg.33.

By far the most exciting development in the past decade is the size and scale of stages. Most live events in India boast of creative stage setups complemented by an evolved rental industry, which is adopting best technology in sound and lighting and advancing its inventory. Nevertheless, it was U2's unparalleled live setup in Mumbai that showed India what the future of stage production looks like.

### Stage Production reigns supreme

BookMyShow, finally got **U2** to perform their first-ever concert in India and the musical extravaganza marked several firsts, which included the world's biggest, high-res LED screen ever used in a live touring show globally coming to the country, usage of **Clair Brothers'** sound system and production elements that had never been seen before in India. Every piece of equipment was flown in and set up with uncompromised clinical precision.

In his column in this issue, aptly titled *Backstage Fun*, **Viraf Pocha** perfectly summarizes what transpired back stage; "Each complex part was assembled perfectly and slotted in so easily. Each piece of set was designed to be piled or lifted into or onto each other so cleverly, it seemed organic and elementary. Simple logic delivered with extreme engineering," he says. *PT* caught up with BookMyShow Live's **Kunal Khambhati** and **Vinay Agarwal** to know more (pg. 62).

Supporting U2's production team was a cast of some of the finest local stage hands - **SNL Pro** provided specialized sound crew while **Star Dimensions** provided specialized light crew, **Natura** provided professional riggers and climbers and **Spectrum** provided specialized crew for LED setup.

The international shows up the scale, else stage production is predictably LED and lighting on trussing. **Roger Drego**, the pioneer of stage sound in India ventured to deliver stage automation a year ago at the *Filmfare awards* (coverage in *PT May-June 2019 issue*). Large rental companies need to reimagine their inventory. Wifi enabled lighting opens new vistas in lighting design. Future opportunities are exciting indeed. Stay attentive to the light shining from *PT* on new products. Future of wifi lighting coming your way soon!

Speaking of new tech, **Michael Menezes** Chairman of Showtime and Founder President of EEMA who championed 'Technology at Events' more than two decades ago, passed away on February 13 2020; **Warren Dsouza** pays rich tribute on pg.80.

The forthcoming *Mar-Apr issue* is the "Studio" special issue and we expect to feature some great music recording, as well as postproduction studios in this issue.

Cheers!



*Smita Rai*

Smita Rai – Content Anchor



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### PRINTED BY

ABEC Exhibitions & Conferences Pvt. Ltd.  
530, Laxmi Plaza, 5th Floor,  
Laxmi Industrial Estate, New Link Road,  
Andheri (W), Mumbai – 400 053.

### Printed at:

M/s. Dhote Offset Technokrafts Pvt. Ltd.  
2nd Floor, Paramount Estate, Plot No-5a,  
Off Aarey Road, Near Kotkar Estate,  
Dindoshi Village, Goregaon (E),  
Mumbai-400063



Stonewater FSS system deployed at Sunburn, Goa

pic courtesy: musepixels

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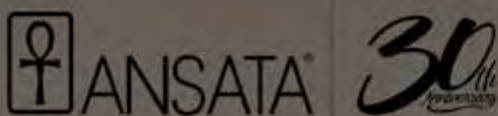
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## Top 50 Products



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## OM SOUND SERVICE INVESTS IN P.AUDIO, DYNATECH, MACKIE, JTS, AND MARANI

Om Sound Service, a renowned rental company in Birgunj, Nepal has invested in a comprehensive line up of world class products from market leader brands P.Audio, Dynatech, Mackie, JTS and Marani. This sale was made by Radio Emporium, a key dealer of P.Audio products (in addition to other market leader brands like

Dynatech, Mackie, JTS and Marani), based out of Raxaul, Bihar.

Om Sound Service's purchase includes multiple units of **Dynatech's DEL123LA line array**, **CS8001 power amplifiers** along with P.Audio's HD+ Series power amps (HD40+ & HD30+) and the **JTS US-1000D wireless microphone system**, which joins the **Mackie ProFX22 mixing console**

and the company's impressive lineup that comprises of 2242 and 13BM-350B loudspeakers from P.Audio. All managed and processed through a single unit of the versatile and efficient **Marani DPA-260P loudspeaker**



The sale in Nepal was made by Radio Emporium, a key dealer of P. Audio products based out of Raxaul, Bihar



management system.

Speaking about the purchase, **Om Patel** of Om Sound Service shares, "We've already deployed the speakers, and I have to say the products are amazing - the quality is supreme and the performance is absolutely astounding. I'm glad to say that we experienced great quality service doing business with Radio Emporium, and we thank everyone there for their support throughout the process. Extremely happy and satisfied with the purchase of these products!"

## D&B LAUNCHES NEW SOFTWARE UPDATE

d&b audiotechnik announced the availability of two new software enabling technologies: **CPL for SL-Series (coupling)**, and **Temperature Humidity Control (THC)** real-time high frequency compensation for loudspeaker arrays. SL-Series new CPL function allows full benefit of the SL-Series extraordinary LF headroom. THC provides high frequency compensation due to temp/humidity as part of the d&b ArrayProcessing software: fluctuations in both temp/humidity can now be addressed in real time via the R1 Remote Control software — simplifying control and saving time. These software updates will be available for download December 12, 2019.

"Visiting many SL-Series installation sites and working with the users and tech teams in the field, we realized that there was still room to

improve the system workflow," said Werner 'Vier' Bayer, d&b Product Management. "These two new enabling features will greatly improve daily workflows basis and elevate on-site system performance. I encourage all users to update their system software as soon as possible."

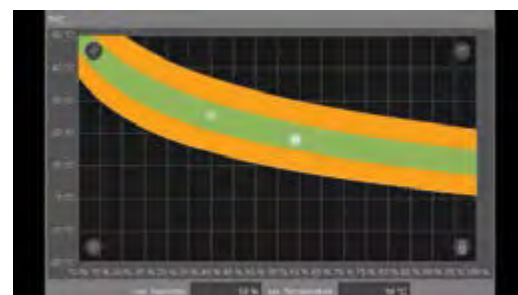
### CPL FOR SL-SERIES

With the existing d&b line array CPL (Coupling) function, which is used to shape the array frequency response for rooms as well as personal preference, the system's frequency shelving function can prevent access to the full frequency range potential of the system — meaning that the SL-Series LF headroom below 100Hz is not fully available when CPL is engaged. The new CPL software allows SL-Series to shape LF and LoMid responses

independently with individual controls for LOW and MID array response, adding a new level of flexibility and efficiency to the CPL workflow.

### Temperature Humidity Control

The new THC function within ArrayProcessing is accessed through d&b R1 remote software. It enables real-time adjustment for changing atmospheric conditions. The new THC function works on any group of d&b arrays operating in ArrayProcessing mode. It is an excellent new tool for any indoor or outdoor venue where temperature and humidity conditions may change multiple times throughout the event.



With improvements in resolution detail, flexibility, response accuracy, and operation efficiency, these new enabling technologies will deliver a new level of performance, workflow efficiency and simplicity for users.



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## ORB SERIES MIXERS LAUNCHED BY STUDIOMASTER PROFESSIONAL

Studiomaster Professional's Orb series is a new and exciting range of premium mixing consoles that integrate state-of-the-art One Knob compression, DSP-based dual multi-EFX processors, built-in USB MP3 media player and recorder, Bluetooth and a host of inputs, outputs and routing options. The mixers are already winning hearts across the length and breadth of the country.

The series sports two models

currently - the **Orb 1822** with 18 mic / 20 line inputs and the **Orb 1222** with 12 mic / 14 line inputs. From all the features the mixers integrate, **One Knob Compression** is the one getting the most amount of attention. The Studiomaster Professional Orb series mixers feature an intuitively-designed and simple One Knob Compressor on select inputs. This useful tool helps users control the dynamic range and harness the true benefits of analogue audio compression without the hassle

of setting complex parameters in a simple one-knob interface. Together with the ultra-low-noise gain preamps that offer a wide headroom and dynamic range, the consoles deliver superior sonic clarity and a hassle-free mixing experience.

The Orb series mixers also integrate a warm and rich dual multi-EFX processor with 24 DSP-based presets and editable parameters. The mixers also have provisions to route the onboard EFX to the stage monitors via Aux 1 and Aux 2 - a feature highly-coveted by the Indian pro audio users. Unlike many models in its category from other brands, the Orb series mixers also integrate a built-in USB MP3 media player and recorder with Bluetooth. Users can quickly record their sessions on flash-based storage devices (pen drives), without the need for a PC/laptop or software application.

To empower a hands-on user interface, the Orb series mixers sport an ergonomically-angled design for better visibility and rear panel input

and output connectivity for a clutter-free mixing environment. The availability of inserts (send/return) on the first 4 mono channels and main outputs allow the users to use outboard effects process in the signal chain as required. Other features in the mixers include 5 Aux buses with stereo returns, 2 subgroups with outputs, globally switched +48V Phantom power supply, 7-band stereo graphic equalizer on the master output and much more.

Packed with so many features, the Orb series mixing consoles are ideal for a host of professional **live, touring, install, and PA applications**. The mixers are a great choice for users who refuse to sacrifice sound quality, value, and reliability. The Orb 1822 and Orb 1222 mixers are readily available at authorized Studiomaster Professional outlets across India. For more information, you can send an email on [info@audioplus-india.com](mailto:info@audioplus-india.com) or visit <http://bit.ly/OrbSeries>.



## RONI NEVO NAMED NEW CEO OF EAW

**Roni Nevo**, President of RCF USA, has been named as the new chief executive officer of EAW. He will continue in his role at RCF USA alongside his new responsibilities at EAW, which is part of the RCF Group.

'Roni brings a depth of experience and a proven track record to the team that will go a long way in accelerating our growth and bring greater efficiency to our operations. As EAW learns how to operate on its



Roni Nevo and TJ Smith at EAW HQ

Nevo will now work with the EAW team to fine-tune its operations and expand its customer base around the world.

'Roni Nevo has been a key figure in RCF's success in North America for many years,' revealed **Arturo Vicari**, RCF Group CEO. 'He will now carry this experience forward in his new role at EAW.'

TJ Smith, President EAW said,

own again, I can think of no better person to lead the board.'

'Together with TJ Smith and the rest of the team, we will continue to focus on the growth of the product line and the presence in the market, in cooperation with our global partners, to expand EAW's reliable and competitive product range in the production and integration sectors we serve,' said Nevo.

## LAVOCE ITALIANA ANNOUNCES NEW LARGE VOICE COIL WOOFERS

Lavoce Italiana has announced one of its most important catalog expansions with the introduction of their new range of large voice coil, high power handling, 18", and 21" subwoofers. Targeting **professional audio applications**, the two new large voice coil woofers - the **SAF184.50** and the **SAF214.50** - both of which use a ferrite magnet, will expand the high power options for low frequency cabinets with maximum impact.

The brand new **SAF184.50** is an 18" ferrite magnet subwoofer with an 1800W AES power rating (3600 watt program power handling) with 96.5dB sensitivity, whereas the **SAF214.50** is a 21" ferrite magnet subwoofer with a 2000W AES power rating (4000 watt program power handling) and sensitivity measure of

96dB. Both units feature a 4.5" in/out copper voice coil with a 43.5mm (1.7") peak to peak maximum excursion..

Featuring heavy-duty resonance free aluminum basket design, the **SAF184.50** as well as the **SAF214.50** boast an FEM optimized motor and cooling system to aid high power handling and lower power compression, together with a double silicone suspension (spider suspension) and triple roll surround to provide consistent linearity at high excursions.

Just like all other Lavoce Italiana products, the **SAF184.50** and **SAF214.50** have been designed in Potenza Picena, Italy, and manufactured at the brand's wholly owned state of art factory in Jiashan, China. The **SAF184.50** and **SAF214.50** is available in India through Lavoce Italiana's official distribution partners - **Narain Pro Audio & Lighting LLP**.





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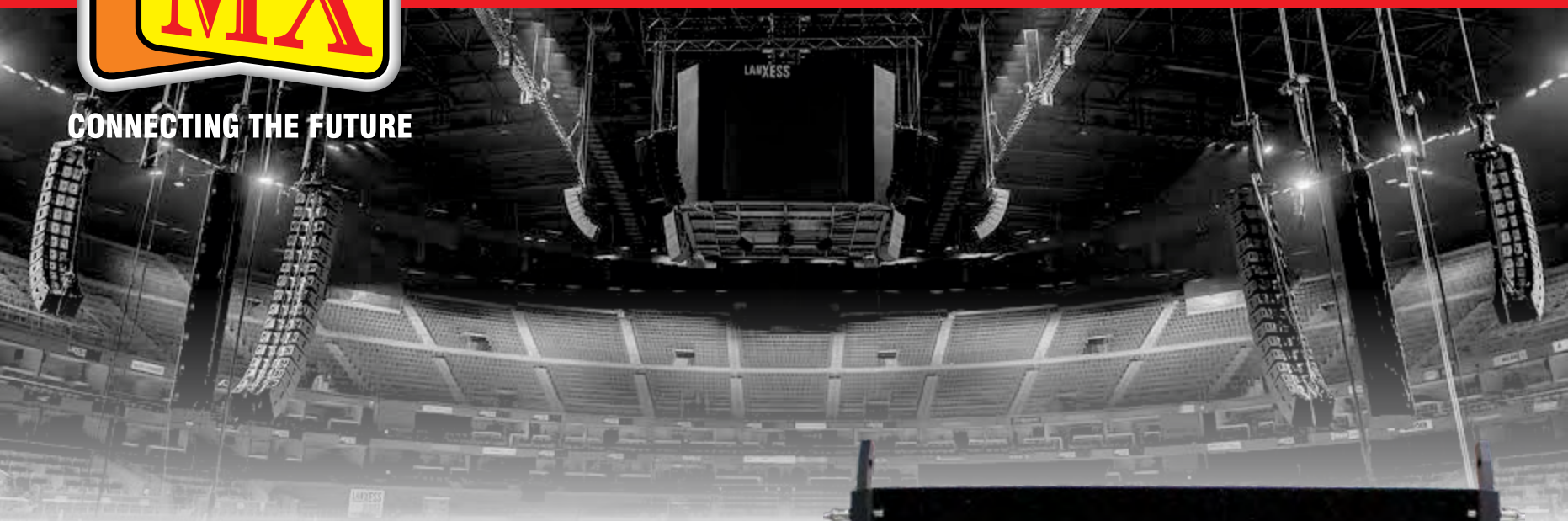
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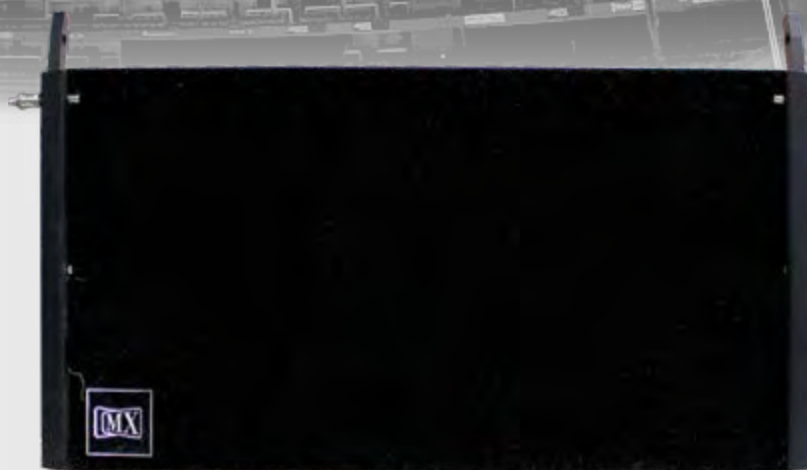


CONNECTING THE FUTURE

# LINE ARRAY



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**MX LA 210**



**MX LA 28**



**MX LA 10**



**PEAVEY Versarray 112 MKII**





# POWER AMPLIFIERS



**MX HPRO 9001**



**MX HPRO 20000**



**MX HPRO 7001**



**MX HPRO 15000**



**MX HPRO 5001**



**MX CA-20**



**MX LP 801**



**MX MP 4001**



**MX LP 601**



**MX MP 3001**



**MX LP 301**



**MX FP 10000Q**



**PEAVEY CS 4000**



**PEAVEY CS 6000**

## MX MDR TECHNOLOGIES LTD.



[mx-mdr@mdrelectronics.com](mailto:mx-mdr@mdrelectronics.com)



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

## L-ACOUSTICS UPDATES KARA LINE ARRAY WITH FLEXIBLE DIRECTIVITY

L-Acoustics has announced the new **Kara II** modular line source, with the addition of **Panflex**, giving Kara four-in-one directivity: one box handily covers any audience geometry. Kara II morphs to fit any design, offering consistent coverage and SPL distribution with precise focus in four different directivity patterns: 70° or 110° symmetrical and 90° asymmetrical, steering to either the left or right. In its 70° configuration,



Kara II packs a full 2 dB more than in 110°.

In a nod to the wide audience of Kara owners around the globe, L-Acoustics will make available a kit to upgrade existing Kara with Panflex.

**Florent Bernard,**

Executive Director of Application Design at L-Acoustics explains, "Kara has been a perpetual best-seller for a reason. Its lightweight, diminutive form factor and strong, consistent SPL make it the perfect tool for a plethora of events or permanent installs. When we introduced Panflex to the industry, our clients told us this was the only thing missing from Kara. We listened, and the new Kara II brings our medium-format line array into a new era of added directivity

and improved polar stability."

Kara II is a powerhouse enclosure, meeting the needs of any audience geometry and morphing to fit any design, offering consistent coverage and SPL distribution with laser focus. As with all L-Acoustics K Series line arrays, Kara benefits from decades of research and development into quick and safe rigging, making it the reference in the market for rapid and optimized deployment.

## RCF GROUP ANNOUNCES ACQUISITION OF MONTARBO

**RCF Group**, has announced that it has completed the acquisition of **Montarbo**. From an operational standpoint, AEB Industriale will oversee the brand's running and distribution.

The incorporation of Montarbo into the group further expands the company's product range in a market segment that is demonstrating strong

growth. The acquisition perfectly fits RCF Group's strategy of selective M&A activity focusing on iconic brands that leveraging the Group's competitive

# Montarbo®



positioning, together with its technical and commercial expertise, fully exploit the growth potential contributing to

the Group's progress and value creation.

**Arturo Vicari**, the CEO of RCF GROUP, said: "We're delighted to welcome Montarbo to our group.

It's an historic brand that has contributed to the evolution of the music and professional audio industry in Italy and around the world. For anyone who - like myself - has followed

the development of this market over the years, elite brands such as Montarbo have a special significance and therefore represent a wonderful opportunity for us to increase the value of our group. RCF Group is one of the most dynamic organizations in the global professional audio industry, meaning Montarbo will be able to live up to its potential and continue to grow alongside us."

## HK AUDIO LAUNCHES POLAR 10: AFFORDABLE NEW COLUMNAR PA

HK Audio has introduced **POLAR 10**: an affordable new columnar PA for musicians, entertainers, DJs, presentations, schools, and audiovisual applications.

POLAR 10 boasts features such as a four-channel mixer with five programmable user presets, Bluetooth 5.0 audio streaming, and remarkably assertive bass response.

POLAR 10 consists of a subwoofer and two columnar elements. The elegant contours of the subwoofer's

birch ply housing are not just cosmetic; the enclosure is acoustically shaped and sized to deliver excellent audio results in combination with a specially developed 10" woofer sporting an extra-long voice coil. Driven by a muscular 2,000-watt power amplifier, this combination delivers rich, low-ranging bass response that packs an impressive punch even at high volumes.

The midrange/HF column comes in two sections for easy transport. The

top section is loaded with six high-performance 3" midrange drivers and a low-distortion, 1" constant directivity horn. The system delivers well-balanced, exceedingly natural sound, rendering everything from low-mid frequencies all the way up to 20 kHz with remarkable authority. Tuned to project an expansive 120° throw pattern and engineered to impede feedback, it gives users freedom choice when it comes to positioning the PA in venues. Placed behind the speaker or performer, it can also serve as a stage monitor to take the place of wedges in many scenarios.

The newly developed E.A.S. connect system links the three components. The smart set of couplers requires no cables. Setting POLAR 10 on a raised stage is not a problem; it can still be aimed at the correct height by simply leaving the column's bottom section - which is a spacer - out of the stack.

The four-channel mixer offers two mic/line channels, one instrument channel for an acoustic guitar or similar, and one aux channel for

music players. POLAR 10 can also render audio streams wirelessly via Bluetooth 5.0, which has four times the range of Bluetooth 4.0. The mixer's settings may be stored in five presets, to be accessed later as the situation requires. The system also comes complete with a padded gig bag for the columnar elements and a padded cover to protect the subwoofer in transit.

**Rüdiger Forse**, HK Audio's Senior Product Manager, said: "For more than 20 years, HK Audio has been top of the class for powered, impressively big sounding plug 'n' play PA concepts. Now we've transferred this knowhow into the class of slender columnar systems! POLAR 10 is outstanding in its product class and is sure to captivate audiences and users alike with its amazingly full sound, comprehensive feature list and easy handling - and all at a remarkably sweet price."

The product will be available in India through HK Audio's official distribution partners, Mumbai based **Integrated Entertainment Solutions**.







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**AC-112**

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**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**



**POPE Professional Acoustics Limited**

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## CHAKOR SOUND MAKES WAVES IN INDIA WITH YAMAHA RIVAGE PM7

Based in Mumbai, **Chakor Sound** is committed to providing the best equipment and service for the demanding needs of a diverse range of events. The company's recent investment in a **Yamaha RIVAGE PM7** digital mixing system has highlighted its determination to keep delivering the ultimate in production values.

Established over four decades ago, Chakor Sound has grown to become one of India's leading providers of live sound and other audio solutions, as well as servicing international tours. Maintaining an inventory of industry-leading audio systems, its relationship with Yamaha dates back to its investment in analogue mixers, later upgrading to the LS9 and M7CL digital mixing consoles. Since then, the company has entrusted all of its investment in digital consoles with the Yamaha brand. This has included most of the Yamaha range, including the CL5 and QL5.

The company has recently purchased a RIVAGE PM7 digital mixing system, proud to be the first Indian production company to do so.

"RIVAGE PM7 offers similarly high



Anish Purao extreme right and Ankit Purao second from left with Chakor Sound team

standards of operation and workflow efficiency to Yamaha's flagship RIVAGE PM10 digital mixing system, but in a relatively compact, portable package. Features like the Rupert Neve Designs SILK processing and the advanced DaNSe noise suppression plug-in raise everything to a whole new level," says **Ankit Purao**, Mixing Engineer at Chakor Sound. "It has changed the way how I mix shows; the console

layout is so intuitive and user-friendly."

Fellow engineer, **Anish Purao**, agrees, "I love the sound quality, headroom, effects and, of course, the reliability of Yamaha digital mixing systems. I feel no other manufacturer can offer the same tonality and audio quality, while features like the custom layer functions on each bank are invaluable," he says.

For Anish and Ankit, ultimately it

all comes back to reliability and uniform, high sound quality at every type and size of event. "As more and more engineers and artists experience how the RIVAGE PM series adds to their performances, we couldn't be more excited about how it has quickly risen to become an industry standard for those who appreciate the best quality sound."

## SOLID STATE LOGIC RELEASE LIVE V4.10 UPDATE

**Solid State Logic (SSL)** has released their latest **Live V4.10** feature packed update for the entire range of SSL Live consoles including; L100, L200, L300, L350, L550 (including L500 and L500 Plus) as well as their SOLSA software. The new release provides live engineers with a host of beneficial features that expands their workflow and control:

### Event Manager

The new Event Manager allows live engineers to create Events that can perform one or more actions when one or more input states are met. This means that a single trigger can activate multiple output actions, or multiple triggers can activate a single output action. This makes workflow set up for the most demanding live events more flexible and intuitive for the engineer.

### V-Auxes and V-Stems

This new features provide an efficient way of making mix

adjustments from groups of paths using VCAs. Adjusting a V-Aux or V-Stem send will trim sends to that bus from all paths that are members of the VCA, and show each source path's discrete level to each bus, and the level with the VCA offset applied.

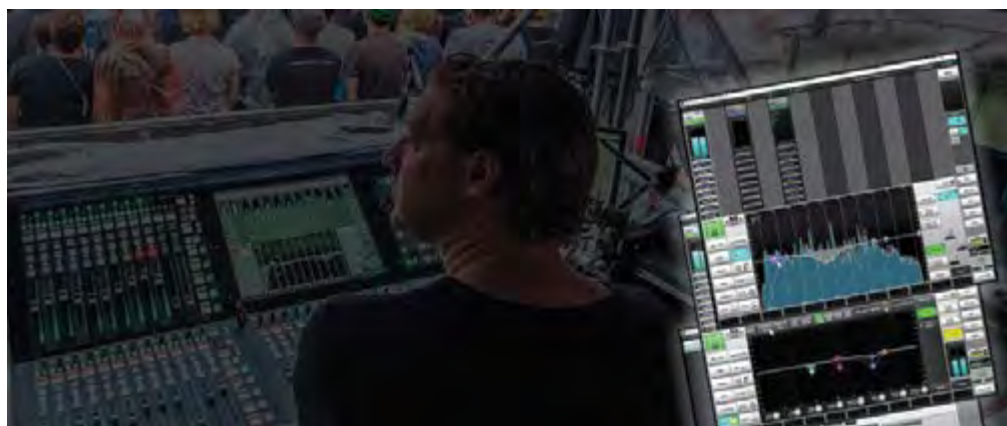
### Spectrum Analyser

A new graphical FFT analyser overlay is now available across channel and bus, EQ and Filters, allowing an engineer to quickly identify and resolve problem frequencies. The fixed-point-per-octave analyser has equal resolution across the entire frequency range, providing high resolution even at low

frequencies.

### Dynamic EQ Update

The 1, 2 and 4-band Dynamic EQs in the Live software FX Rack have been significantly redesigned with a



new graph based GUI, and adding further levels of control including 'static' gain, increased Q (filter width) range, and new threshold trigger modes.

### DAW Control

DAW Control brings support for the HUI protocol, primarily for engineers requiring record or playback Pro Tools systems. Up to 32 DAW controller

channels can be configured for up to four separate DAWs. The feature also provides time code and MIDI-based automation for Input/output actions and Events.



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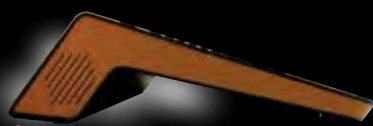
- Higher effective gain
- Reduced equipment damage
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- Makes loud signals softer and soft signals louder

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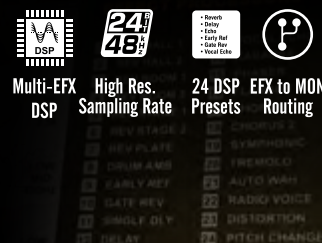
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## DBTECHNOLOGIES LAUNCHES VIO C SERIES ACTIVE LINE-SOURCE

Italian manufacturer **dBTechnologies** has launched the **VIO C**, a complete series of 2-way active line-source speakers for the widest range of venues and applications, from **installed PA systems to sound reinforcement for touring**.

Key features include:

- 2-way active line-source speakers
- Horizontal scalable line source cluster or vertical constant curvature array
- Exclusively designed waveguide for maximum hf directivity control
- Neodymium components
- 1600W RMS DIGIPRO G4 amp technology
- Full range SMPS with PFC
- Advanced DSP featuring linear phase fir filters
- Fully networkable VIA Aurora net
- OLED user-friendly interface
- Accessories compatible for all models

The series encompasses 3 enclosures housing premium neodymium components: **VIO C12** (1x12", 3.5" v.c. LF and 1x1.4" exit, 3" v.c. HF), **VIO C15** (1x15", 3.5" v.c. LF and 1x1.4" exit, 3" v.c. HF) and **VIO C212** (2x12", 3" v.c. LF and 1x 1.4" exit, 3" v.c. HF).

The whole series is equipped with

latest generation 1600 W RMS Class D Amp module Digipro G4 driving a powerful DSP and allowing each system to deliver impressive SPL (139 dB for VIO C12, 140 dB for VIO C15, and 141 dB for VIO C212).

As a default, VIO C are equipped with dBTechnologies RNet card for real time monitoring and remote control via Aurora Net software. The preamplifier is ready for future upgrades with Audinate Dante card.

Featuring an exclusively designed waveguide as well as an asymmetrical horn, any single VIO C enclosure precisely provides a horizontal 22,5° angle coverage pattern.

When matching companion cabinets, users can easily set up scalable horizontal clusters, adapting the VIO C to the venue and application in use. Thus, a 4-cabinet side-by-side configuration delivers a 90° horizontal dispersion, an 8-cabinet cluster reaches a 180° horizontal angle and so forth, up to a 360° coverage with a 16-cabinet set up.

Infrared ports are placed on top and both sides of each cabinet so that the speakers can recognize the size and configuration of the system when linked together horizontally or



VIO C Series

vertically.

VIO C12 and VIO C15 models can also be coupled vertically, by turning a speaker upside down and placing it on the top of a companion speaker. The infrared ports placed on the top of the cabinets allow the two speakers to communicate and to be processed as a single unit, manageable via the on-board display or via Aurora Net software. This way, users can set up double-line clusters (up to 32 elements) and modify the vertical dispersion pattern via digital steering.

Finally, VIO C12 and VIO C15 design also allow to create up to 4-module constant curvature arrays.

VIO C clusters can be rapidly assembled thanks to the LP-1, a metal link-plug accessory which links the rigging points placed on the corners of each cabinet and flown via the DRK-C fly-bar for the cluster configuration - adding the DRKL-3 fly-bar link when 3 speakers are needed and the DRKL-4 for 4 speakers - and the DRK-CCA fly-bar for the constant curvature array configuration.

## JBL PRX300 SERIES – VALUE SPEAKERS FOR LIVE PERFORMANCE

Available in India through **Narain Pro Audio & Lighting LLP** – Harman Professional's official distribution partners – the **PRX300** is a new set of value speakers developed by JBL Professional for **live performance and installed sound applications**. The new series comprises of four models:

1. **PRX312MD** (12" two-way stage monitor)
2. **PRX315D** (15" two-way speaker)
3. **PRX318SD** (18" subwoofer)
4. **PRX325D** (Dual 15" two-way speaker)

The PRX312MD, PRX315D, and PRX325D are two-way speaker systems that feature a JBL 2412 1-inch ferro-fluid cooled compression driver with a titanium diaphragm that enables the speakers to deliver clean and warm high notes with uncompromised reliability. JBL

SonicGuard technology improves system stability by protecting the high frequency driver with additional protection offered through the precision-crafted crossover network that feeds the two drivers with clear-cut frequencies with minimum overlap. It can capably handle high power with its high-voltage capacitors and inductors. The patented Progressive Transition waveguide mounts on top of the tweeter and provides superior coverage control, reduced distortion, and smoother frequency response. Each speaker uses a

premium low frequency driver (12"/15") with an edge-wound ribbon voice coil of 2 ½ inch (64mm) in diameter that assures solid bass, high efficiency and large power handling capabilities. The PRX325D features two 15" low-frequency drivers, wherein the upper woofer operates at mid and low ranges while the lower woofer focuses on bass only, thereby delivering extended low-frequency performance, and eliminating the need for additional subwoofers.

For applications that demand the need of a dedicated low-frequency fidelity source, the PRX318SD compact direct-radiation 18-inch subwoofer system proves to be the perfect solution; with its JBL 2043-G 18-inch woofer and 3-inch voice coil in a direct radiation format reproducing loud

and powerful low frequencies. The sub system is capable of handling 350 watts of continuous power with a peak of 1400 watts.

All four models in the series feature rugged cabinets constructed with MDF (Medium Density Fiberboard) for extreme durability and improved low frequency response. Two all-steel handles integrated to the sides of the case make transport and setup easier, while the front of the units sport a dent-resistant grille made from 18-gauge perforated steel that protects the components from damage. A 36-mm socket allows mounting of the PRX312MD, PRX315MD, and PRX325MD on a speaker pole and work as a main or fill, with the socket supporting either up-straight standing or 10° tilting. A 36-mm pole mount receptacle on the top of the PRX318SD receives the SS3BK pole to facilitate use with either of the above loudspeakers.





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RS112A

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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.

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 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 Line Array speakers consist of POPE Professional transducer, Neodymium drivers, throat compression drivers, Titanium diaphragm, and Neodymium magnet.

These are designed to bring 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-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 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



TH Series TH-815

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 Series AC-2122

M Series M-12CA

## DIGICO DEBUTS QUANTUM 338 AND QUANTUM 5 CONSOLES

DiGiCo announced the debut of two new consoles at NAMM 2020 - **Quantum 5** and **Quantum 338**.

### QUANTUM 5

Quantum 5 follows on from the huge success of DiGiCo's flagship Quantum 7. As with Quantum 7, the Quantum 5 engine slots neatly into the existing SD5 frame and, with its 37 faders and three 15-inch full colour TFT touchscreens, provides Quantum processing features, power and connectivity in both new and existing hardware.

Quantum 5

expands the SD5 to over 450 channels of processing at 96kHz. It includes up to 256 input channels with up to 128 busses and a 36 x 46 matrix. The engine is also equipped with four redundant, or eight individual, MADI ports and two DMI slots (DiGiCo Multi-Channel Interface) for AoIP and other connectivity options from the complete family of DMI card options, plus a built-in Waves port and up to two Optocore loops.

"Quantum 5 makes complete sense as an upgrade path for both new and existing SD5 users," comments DiGiCo General

Manager, **Austin Freshwater**. "It allows them to take advantage of all the new Quantum features while maximizing their ongoing return on investment."

### QUANTUM 338

Quantum 338 includes impressive new design features and enhancements that offer ultimate flexibility, all with the same speed of operation that Quantum users have come to rely on, in a smaller format console.

"With Quantum 338, we have ensured that we are providing a next generation console that works in synergy with our Quantum Engine," says **Michael Aitchison**, DiGiCo's Senior Electronics Engineer.

"We focused

our R&D team on user experience, learning from the last 20 years, with our continuing main objective of merging new with familiar."

Quantum 338 is based on seventh generation FPGAs and includes 128 input channels with 64 busses and a 24 x 24 matrix, all with full channel processing. There is a new look and feel dark mode application and three 17 inch 1000 nit, high brightness, multi-touch screens, allowing both the meter bridge and soft quick select buttons to be displayed on each screen. There are also 70 individual TFT channel displays and the floating Quantum chassis features 38 x 100mm touch sensitive faders laid out in three blocks of 12 fader banks, and two dedicated user-assignable faders, each complete with high resolution metering. The console is equipped with 36 mono Mustard processing strips, which can be used on any channel type.

Both Quantum 338 and Quantum 5 include Mustard Processing, Spice Rack, Nodal Processing, and True Solo.



Quantum 5

Quantum 338



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## GULLY GANG ENTERTAINS WITH RCF HDL SERIES

The age of rap has been resurrected as the mainstream music recently in India. Hip-hop artist and rapper **DIVINE aka Vivian Fernandes**; one of the pioneers of underground Indian hip-hop rap scene is creating a buzz across the nation with his hard-hitting numbers. In 2019, Divine notably contributed to the soundtrack of Bollywood's blockbuster musical drama film *Gully Boy* which is inspired by his and his peer Naezy's street rapper days.

With his knack for penning down hit songs, electrifying live acts, meticulous flow, originality, and approachable persona, Divine is popular among his fans in India. The young artist founded Gully Gang, and Chennai recently witnessed his high-adrenaline show at Phoenix Market Chennai Courtyard. Along with DJ JD and rapper Shaw Rule, Divine's Gully Gang made the crowd swing with his popular numbers.

**Soundgear** from Chennai were the audio partners who provided the RCF HDL series for the event. "We have been in the pro-audio and lighting rental services for the past 12 years. Our main focus is on Live sound reinforcement mainly and we handle a lot of live bands & artists, music festivals, corporate gigs, and weddings", says **Balaji**, Director of **Soundgear**.

He continues, "For the Gully Gang show, we deployed **12 RCF HDL-50A** and **12 HDL 8006A SUBS** for FOH. Additionally, for both center fills and delay, **RCF HDL-20A** (6 nos.) has been used for better and even coverage across the venue for 2000 fans. Our client Phoenix Chennai & Times of India appreciated our production efforts. The band's sound engineer **Adhiraj Singh** who had the pleasure of operating the system has nothing but good things to say about it."

"I've always had a great experience with the RCF systems across all the shows that I've had them on", shares Adhiraj Singh, FOH engineer for Gully Gang. He continues, "For Divine, the live experience demands a ton of headroom and power - especially on the subs side. The system allowed for a seamless and clean translation, what I look for in achieving sonically and I couldn't have been more pleased. The good folk at Soundgear ensured that it was perfectly in tune, and it took very little work to get a superlative mix going. And of course, when you see 2000 people grooving and having a great time, you know it's a job well done."

**Rajan Gupta**, Managing Director of Hi-Tech Audio Systems, RCF's authorized distributor in India, supplied the system to Soundgear and he shares his view about the brand. "The HDL System is an excellent series from RCF, with



effective networked control and a fast and easy rigging system. Being a veteran in the industry, Soundgear recognized the superiority of the HDL series, not only for its ease of use and practicality but for its flawless sound and unrestricted power. For a decade we have been associated with Mr. Bala, and his team has been effectively using RCF for the past 7 years."

"The HDL series from RCF is very much popular among rental

companies in India. With our goal-oriented sales strategies supported by technical guidance, we were able to cater to the needs of rental owners and audio engineers. We are hoping to accomplish our goals with RCF in 2020 and to achieve them we are working closely with the Italian brand to offer the best for the Indian market", concludes Director Sales of Hi-Tech Audio Systems, **Nirdosh Aggarwal**.

## D&B AUDIOTECHNIK LAUNCHES THE NEWEST ADDITION TO THE SL-SERIES: KSL-SUB

**d&b audiotechnik** has recently announced the introduction of a formidable new addition to the company's SL-Series line array family. The **KSL-SUB**, available in both flown and ground stack (**GSUB**) versions made its debut at the 2020 Winter NAMM show in January.

The new KSL-SUB provides a small, lightweight format that extends the frequency response of a KSL System down to 36Hz with exceptional dispersion control, impressive low frequency headroom, and unmatched performance for its size. This powerful, directivity-controlled, smaller format sub enclosure allows venues of all sizes to experience

accurate, smooth, and punchy bass response.

The **KSL-SUB** and **KSL-GSUB** subwoofers operate with two forward-facing 15-inch drivers and a single, rear-facing 15-inch driver which, driven with 2-way active amplification, provide uncompromised cardioid directivity control.

Measuring just 100 x

90 x 45 cm (39.4 x 35.4 x 17.7 inches) in size, and with a sheer weight of 82 kg (181 lbs), the KSL-SUB delivers an output of 139dB driven by d&b D80 amplifiers.

The KSL-GSUB has a streamlined form: minus the KSL-SUB standard rigging hardware. It stands at a diminutive height of just about 45cm, easily allowing for under stage deployment. Using a new KSL-SUB adapter frame the KSL-SUB can be deployed above KSL-Tops as part of a flown array. The KSL-SUB touring cart enables users to transport KSL-SUBs with both the Adapter frame and Flying frame mounted to the subwoofers if they choose.



"The KSL subwoofers are the next step in d&b's continuing obsession with innovation, efficiency, performance and directivity control," said **Werner 'Vier' Bayer**, Product Manager, d&b audiotechnik. "The KSL-System is growing and we will soon introduce new options for permanently-installed applications. Watch for integration-specific KSL cabinet design options and an addition to the d&b installation amplifier portfolio to be announced at ISE 2020 in Amsterdam."

The **KSL System** is designed for sound reinforcement needs of all kinds, mobile or installed, from large-scale arenas, stadiums, and festivals to medium scale applications such as clubs, theaters, houses of worship and performing arts venues.





# R-4 Series

## UHF 4 Channel Diversity System

Designed with JTS newest generation wireless technology, the R-4 is a 4 channel system in a 19" one U case. It provides more compatible channels within limited bandwidth. Both power and antenna output can be cascaded for easier installation.

# JTS®

**JTS, a complete range of professional microphones, wireless systems and headsets.**

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## JBL PROFESSIONAL DEBUTS IRX SERIES PORTABLE PA LOUDSPEAKERS

*Two new portable PA loudspeakers combine premium JBL sound with versatile features like Bluetooth streaming in a compact, affordable package*

HARMAN Professional Solutions introduced the new **JBL IRX Series** portable PA loudspeakers at the 2020 NAMM show.

JBL IRX Series portable PA loudspeakers provide musicians, performers, and presenters with iconic JBL sound in a highly portable, feature-rich package. With class-leading volume and clarity, IRX Series speakers deliver

detailed, intelligible sound for vocals and music. A durable, lightweight design makes IRX Series speakers easy to transport, ensuring professional sound quality in any environment. Versatile features like Bluetooth audio streaming, custom application-based presets, and automatic signal processors make it easy to dial in great sound for a wide range of applications. The IRX

Series of portable PA loudspeakers includes the **IRX108BT**, which features an 8-inch woofer, and the **IRX112BT**, which features a 12-inch woofer.

"Today's performers need a portable, easy-to-use PA system that delivers professional results at an affordable price," said **Brandon, Knudsen**, Loudspeaker Product Manager, HARMAN Professional Solutions. "We're excited to showcase our new IRX Series loudspeakers at the 2020 NAMM and CES shows, which combine impressive volume output and detail with an assortment of versatile features like Bluetooth audio streaming in a compact, lightweight design. Best of all, the IRX112BT, and IRX108BT are the most affordable powered speakers JBL has ever offered."

IRX Series loudspeakers will deliver class-leading frequency response, with SPL, wattage and performance ratings equivalent to much larger loudspeakers. Equipped with a 1,300-Watt amplifier, IRX Series speakers deliver clear, detailed sound with minimal distortion, even at high levels.

IRX Series speakers were designed with four custom EQ presets optimized for common performance

scenarios and built-in dbx Automatic Feedback Suppression. One-touch ducking automatically lowers music volume when speech input is detected, ensuring every word is heard loud, and clear.

With an ultra-lightweight cabinet and ergonomic handles, IRX Series can be easily transported and lifted, providing maximum portability. A custom, road-ready grille features a tight-gauge, reinforced honeycomb pattern with a specially designed bevel for added durability without compromising acoustic performance.

Featuring two combination XLR/TRS inputs with professional-grade preamps, IRX Series speakers provide crystal-clear sound for microphones, playback devices, and mixing consoles.

The IRX Series consists of two speaker models, ideal for a variety of applications. The IRX112BT features a 12-inch woofer for an extended frequency range down to 53 Hz and a maximum SPL of 129 dB, while the IRX108BT features an 8-inch woofer with an extended frequency response down to 54 Hz and a maximum SPL of 127 dB. Both models feature an integrated pole mount to elevate the speakers for improved performance in PA applications.



## N-LABS TO LAUNCH X6 & X4 ADVANCED AMPLIFIERS

N-Labs are set to launch their all new **Class D** amplifiers. The **X6** & **X4** models are considered the most advanced amplifiers available in India and are most convenient for Line Array and Stage Monitors.

Both X6 & X4 models have the same functions. The X6 is a 4

channel amplifier and the X4 is a 2 channel amplifier.

**Key features of the X6 & X4 amplifiers:**

- TITR Circuit with individual power supply
- Class D Technology
- Multimode Outputs

- GUI Interface
- Temperature Sensors
- Balance XLR input and speakon output connectors
- Switchable H / L modes to match your Speaker System
- 1.5 u design with 19" rack mounting weighing 4.5kg only

Both the X6 & X4 amplifiers have switchable output power supply with dual loop resonance and soft switching to ensure safe drive and dynamic performance. These amplifiers have a tunnel design to keep it cool from the inside and an audio cutout feature in each channel that

automatically shuts down in case of a short circuit and automatically restarts again without resetting.

The X6 & X4 feature real-time display of internal temperature in the front, separate volumes for all channels with input, clip and protect led on the front panel and an output power mode switch on the back panel. Per Channel Output power of 1400W @ 4Ω and 850W @ 8Ω in H mode and 850W @ 4Ω & 500W @ 8Ω in L mode.

"These are the most reliable Class D Amplifiers in the market which commits to perform as per the specs mentioned with highest quality standard within budget", says **Hemal Bhatt**, Director, H V & Company.

The amplifiers are covered by a 3 Years Replacement Warranty.





**Nx** Audio<sup>®</sup> ©

# **RUDRA** **THE** **DESTROYER**



**6"**  
Voice Coil

**RUDRA-1820**  
**2000 WATTS RMS**



**RUDRA1816**  
**1600 WATTS RMS**

**5"**  
Voice Coil



**RUDRA1812**  
**1200 WATTS RMS**

**4"**  
Voice Coil



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## NEXO ANNOUNCES P8 AND P10 COMPACT POINT SOURCE LOUDSPEAKERS

The P8 arrives exactly 20 years after the launch of the PS8, a super-compact stage monitor and PA speaker which, together with the larger PS10 (launched 1993), became a staple product in rental inventory for AV and audio production companies, and a common sight in fixed installations.

At its manufacturing HQ just north of Paris, France, NEXO has invested in new tooling and assembly plant to produce the curvy modern enclosures that are the signature of its new P+ Series. Re-imagined for the 2020s, the **P8** and **P10** models will put entirely new possibilities into the hands of the sound designer and engineer.

Inside custom birch and poplar plywood shells, the P8 features a coaxial 8" LF driver with 1.5" diaphragm HF driver, and the P10 has a coaxial 10" Neodymium LF driver and 1.7" diaphragm HF driver. The horn driver can be rotated in both cabinets, something of a NEXO trademark after it was innovated in the PS Series. However, in the new

P+ Series, the quick-release Magnelis steel grille can be quickly removed, allowing the horn to be swapped out, changing the standard 100×100 degree dispersion for a 110×60 degree alternative.

The custom-designed coaxial drivers are at the heart of these speakers, responsible for smooth, clean sound and impressive SPL output: 129dB Peak for the P8 and 136dB Peak for the P10. Special attention has been given to the design of the cooling system of the LF driver, ensuring outstanding power handling. Frequency response is 66Hz-20kHz for P8, and 63Hz-20kHz for P10.

The footprints of the two new P+ cabinets are very compact, and the enclosures are light in weight. The P10 measures 497mm high x 384mm wide x 274mm deep, and weighs 15kg. The P8 is just 423mm x 276mm x 250mm, weighing 12kg.

Both P+ Series models are available in Touring and Installation versions. In the Touring version, two large handles on each side hold a 35mm pole stand adaptor and Speakon connector for discrete connection when the cabinets are used on pole stands or in wedge monitor applications. Two other Speakon connectors are included on the back plate. In the Installation version of the cabinets, a cable gland with a 2 core cable for audio input ensures

IP54 protection when it is used outdoors.

The new P+ Series models are accompanied by a comprehensive range of accessories, enabling them to be used in a wide variety of touring and installed applications.

NEXO's R&D Director **Joseph Carcopino** highlights the new processing algorithms available for the P+ Series. "Using our new generation NXAMPMk2 amplifiers, we have been able to take quite a leap forward. The P10 and P8 deliver excellent sonic performance, and are much more dynamic than previous NEXO point source models. Indeed, with its sharp polar control, I believe the P10 will be able to compete against many of our competitors' 12" models. When powered with the smaller NXAMP4x1Mk2 amplifier, it is also a very interesting alternative to our own P12 cabinet!"

P10 and P8 have a choice of power sources, with the NXAMP4x2Mk2 and NXAMP4x1Mk2, as well as the affordable NEXO DTDcontroller and DTDAMP4x1.3, which can drive 1x P10 or 2x P8 per channel. NXAMPs offer a dedicated set-up for each horn to ensure perfect coverage at any frequency.



## EARTHWORKS LAUNCHES NEW VOCAL CAPSULES FOR LIVE SOUND

Earthworks Audio has taken a step into the live sound reinforcement market with the release of the **SR3314** and the **SR5314** wireless vocal microphone capsules. These wireless capsules bring studio clarity to the stage.

"Engineers and artists want the clarity of a studio condenser on stage but it's historically been too risky," says **Gareth Krausser**, COO for Earthworks. "Our new vocal capsules change that. These microphones behave like a dynamic but they have that enveloping immersive sound that connects the audience to the artist."

The sound is achieved

by coupling the studio-quality small diaphragm cardioid condenser capsule with a Class A amplifier circuit that leverages Earthworks patented and proprietary technologies. This combination makes this

the most responsive and fastest microphone capsule on the market.

The extended flat frequency response and a focus on clean impulse response also set these capsules apart. But, it's

their tight cardioid polar pattern, their consistent low frequency response across a wide range of distances, and their extreme attenuation of sound sources located beyond 90 degrees —with maximum rejection at 180 degrees — that makes them ideal for live

performances.

"Our vocal microphones deliver the same quality of sound even when the singer moves off-center," says Krausser. "There's no proximity effect. They eliminate feedback and their off-axis rejection is outstanding."

The SR3314 is designed to work with any handheld wireless transmitter that utilizes a standard 3-ring concentric connector. This includes wireless microphone models made by Shure, Lectrosonics, Sony, Line 6, Audio-Technica and others with a compatible 3-ring connector.

The SR5314 is designed to work with the following from Sennheiser: Digital 9000 Series, Digital 6000 Series, 2000 Series, Evolution G4 500 Series, Evolution G4 300 Series, and Evolution G4 100 Series.





## ELECTRO-VOICE LAUNCHES THE EVOLVE 30M COMPACT COLUMN LOUDSPEAKER SYSTEM

The **EVOLVE 30M** system which includes a speaker array, a two-piece pole connector, an array and pole backpack carry case, and a powered subwoofer, is equipped with an eight-channel digital mixer, studio-quality onboard effects, remote control of all audio and effects and mix functions via the next-generation Electro-Voice QuickSmart Mobile application. The fully configurable app has an intuitive, easy-to-read user interface and utilizes Bluetooth Low Energy (BTLE) technology for the adjustment and monitoring of all parameters of up to six EVOLVE 30M systems simultaneously.

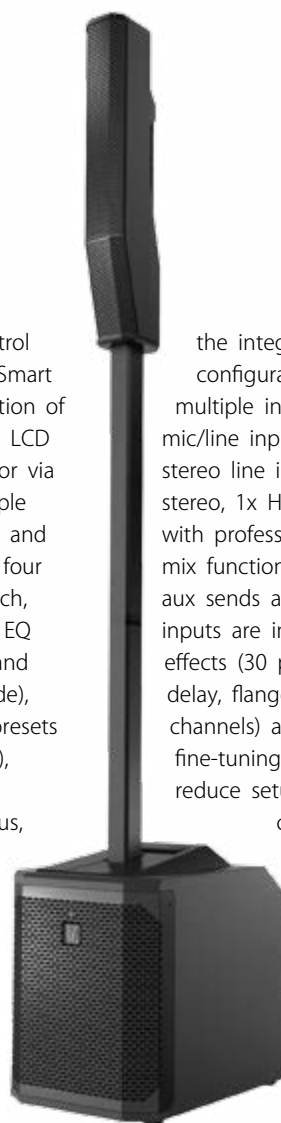
All this makes it a good choice for solo musicians/performers and smaller musical groups and venues, or any application that needs an easy-to-use, highly portable, and lightweight system with extraordinary connectivity, control, coverage and output relative to its footprint.

The full-range column array and its six lightweight 2.8" neodymium drivers provide ultra-wide 120° coverage via proprietary waveguides; array-formed 40° asymmetrical vertical coverage ensures acoustic output is directed towards both sitting and standing audience members. The array enclosure is constructed from a durable composite material and incorporates an ergonomic aluminum handle. A 10" subwoofer is housed in a 15 mm wood enclosure with a high-efficiency laminar-flow vent design, for enhanced rigidity and acoustical performance. The array and sub are connected via a two-piece symmetrical aluminum pole with internal wiring and magnetically assisted latching. A Class-D amplifier provides up to 1000 W of output power: 500 W to the subwoofer and 500 W to the column array. A black powder-coated 18-gauge steel grille protects the speakers.

The EVOLVE 30M's control panel features EV's QuickSmart DSP, which allows navigation of system parameters via an LCD with single-knob control or via the app, as well as multiple options for signal routing and inputs. Functions include four presets (Music, Live, Speech, Club), three-band system EQ (low, mid, high), seven-band graphic EQ (in Mixer mode), five user-programmable presets (Store and Recall settings), phantom power, visual monitoring of limiter status, input level control and meters, and a master volume control to optimize gain structure.

Developed in collaboration with the team at EV's brand Dynacord,

the integrated fully featured and configurable digital mixer has multiple inputs (4x XLR/TRS combo mic/line inputs, 1x XLR/TRS combo stereo line input, 1x RCA, 1x 3.5 mm stereo, 1x Hi-Z instrument input) with professional-grade preamps and mix functions. Independent channel aux sends and Hi-Z and foot switch inputs are included, and a range of effects (30 presets, including chorus, delay, flange and reverb, via two FX channels) add myriad options for fine-tuning. All of the above help to reduce setup time – and on-stage clutter – by minimizing the need for external equipment such as a mixer and effects pedals. The mixer and onboard effects can be controlled via the app or via the single-knob/LCD interface.



## DURGESH SOUND AND LIGHTING SYSTEMS BRINGS IN THE NEW DECADE WITH DIGICO

**Hi-Tech Audio Systems** the authorized distributor for **DiGiCo** has added **Durgesh Sound and Lighting Systems** of Indore as the new DiGiCo SD10 owner to their expansive list of clientele.

Durgesh Sound and Lighting Systems has been providing highest standard services to the event industries. The addition of DiGiCo SD10 to the company's inventory is a logical decision taken by Durgesh Sound and Lighting Systems.

"DiGiCo is preferred by most live artists and mixing engineers. DiGiCo SD10 is my personal favourite desk to work on because of its dynamic features and compatibility. DiGiCo consoles offer everything a mix engineer could ever aspire to have at their fingertips. SD series' output quality, precise EQ, quick response, 15-inch backlit colour-keyed TFT touchscreen & on-hand faders are top-notch features," explains **Prabhat Soni**, Co-owner and Audio Engineer of Durgesh Sound and Lights.

**Vanshaj Sharma**, Hi-Tech Audio Systems application engineer for DiGiCo conducted a technical training for Durgesh's team after the purchase. He shares, "Recently the newly purchased SD10 was used for one of the top Bollywood artist Shaan's live show at Indore. Prior to the show, I have given a detailed training about the console. What they like the most is the rack sharing feature of DiGiCo with the help of D2 rack. This allows them to split all the channels of that stage rack without any splitter in between and saves time as well as cables to make the whole setup much neater and easier to execute."

Durgesh pride them with constantly being at Central India's very forefront of sound and lighting service provider. Working closely with their client and maintaining a strong working relationship enables them to be at the cutting edge of the industry.

"We are really glad to associate with Durgesh Sound and Lighting Systems by providing them the SD10 console. They are one of the veteran rental companies of Madhya Pradesh



**Prabhat Soni and Gaurav Soni of Durgesh Sound & Lighting System with the newly acquired SD 10**

and their work credentials are remarkable. This association will surely give DiGiCo and our company the mileage to reach more prospective clients in 2020", says **Rajan Gupta**, Managing Director of Hi-Tech Audio Systems.

**Nirdosh Aggarwal**, Director Sales of Hi-Tech Audio Systems concludes, "I have known Durgesh Sound and

Lighting Systems for many years now. As a family business, the management of Durgesh are very serious and always keen to add new technologies to their services. It's a start for them with DiGiCo and as the authorized distributor of the brand, we are always willing to support them in terms of trainings and show supports."

## SAMSON EXPEDITION XP312W - RECHARGEABLE PORTABLE PA WITH HANDHELD WIRELESS SYSTEM AND BLUETOOTH

Samson expanded its Expedition Series Rechargeable Portable PA line with the launch of Expedition XP312w at CES 2019. The new system is perfect for performers, DJs and musicians who are looking to deliver huge sound and unrestricted performances.

### Explore and Expand

The Samson Expedition XP312w Rechargeable Portable PA answers the call of those who need great-sounding mobile audio. With 300 watts of power, 12 hours of battery life, a 4-channel mixer and Bluetooth, the XP312w delivers huge sound to musicians, DJs or those enjoying a variety of outdoor events. It also includes a frequency-agile wireless microphone for cord-free performance.

### Built for Power and Mobility

The XP312w operates for up to 12 hours continuously via its built-in rechargeable lithium ion battery. Its lightweight Class D amplifier delivers 300 watts of

power to a 2-way speaker system with a 12" woofer and 1" tweeter. This is all housed in a rugged polypropylene enclosure with a steel grille that weighs just 38 pounds. And with a retractable handle and smooth rolling wheels, transporting the XP312 is easy. Plus, a 1 3/8" speaker stand receptacle allows the XP312w to be mounted using any standard speaker stand.

### A Full-featured Mixer

Equipped with a 4-channel mixer that includes XLR, 1/4" and 1/8" inputs for connecting microphones and line level devices, the XP312w makes for quick and easy setup. The speaker can also stream music wirelessly from any Bluetooth device. A variable reverb control adds depth, and a voiceover ducker automatically lowers the music when speaking or singing into a microphone (XLR or wireless inputs). In addition, a master 2-band EQ is provided to adjust the tonal characteristics of the XP312w, as is a line output to daisy-chain additional speakers.

### Wireless XPansion

Perfect for multi-performer vocal and speech applications, the XP312w is capable of handling up to three wireless systems simultaneously. The XP312w comes with a single Concert 88a Handheld Frequency-agile UHF Wireless System that offers up to 300' of operation. An extra wireless receiver slot is included for adding a second Concert 88a Series wireless system, while the USB wireless port allows to also integrate an XPD Series USB Digital Wireless System.

### Other Features

- All-in-one portable PA system that weighs 38lb
- Internal rechargeable lithium ion battery for up to 12 hours of continuous use
- 4-channel mixer with 2-band (Bass and Treble) EQ
- Independent volume controls on each channel
- XLR-1/4" combo selectable mic/line input for microphones and line level devices

- 1/8" (3.5mm) Aux input for stereo line level devices (MP3 players, keyboards, etc.)
- Variable reverb control for mic/wireless inputs.
- USB wireless port for use with Samson XPD Series USB Digital Wireless Systems\*.
- Battery level, Charging and Power LED indicators.
- Side microphone mounting clip for wireless mic storage.

\*Not included, sold separately.



## UNIKA PRO DEBUTS NEW BOX SERIES AND STAGE SERIES

Unika has launched the new Box series, which are Active Direct Boxes, and the Stage Series, which are Passive Direct Boxes.

The BOX SERIES includes DI-BOX2 2-Channel Active Direct Box, DI-USB Stereo Box with USB, DI-BT Bluetooth Stereo Box & ISO2X4 Passive Audio Isolator/Splitter. The Stage Series includes SDI-1 Single Passive Direct Box, SDI-2 Dual Passive Direct Box and ISO-2 Dual Passive Isolator.

### Box Series



### DI-BOX2

The DI-BOX2 is a 2 channels active direct box, is easy to use, simply plug it in, turn on the power and it goes to work. Featuring 2-channel high impedance direct inputs for electronic musical instrument signal feed and selectable 3 steps attenuator for Hi-Z direct input.

### DI-USB

The DI-USB is a high-resolution stereo direct box designed to convert sound files from a laptop computer, it is a fully USB 2.0 compliant, 24bit digital to analog audio converter and a direct input that lets you interface high impedance (Hi-Z) audio output with professional low impedance (Low-Z) PA and recording systems.

### DI-BT

The DI-BT Box is a high-resolution stereo direct box designed to wirelessly pair with Bluetooth enabled devices and seamlessly transfer the streaming audio to a pair of balanced audio outputs. This makes it ideal for connecting a laptop, cell phone, or tablet to a mixing console, powered speakers, or PA system.

### ISO2X4

The ISO2X4 is a passive audio isolator/splitter designed to be inserted into the signal chain to block hum and buzz caused by ground loops. The ISO2X4 accepts unbalanced or balanced signals and is equally suitable for consumer electronics and professional line-level devices.

### STAGE SERIES

The Stage Series features a top-balanced isolate transformer and a cable-free circuit design with a sealed toggle switch with metal surround base. The input and output can reach an amazing +26dBv (+28.22dBu), T.H.D. is less than 0.0005%, and the frequency response is nearly flat.

SDI-1/SDI-2 is suitable for all kinds of high-level signals and instruments connected to the mixing console. The SDI-1 is a single-channel, passive direct box and the SDI-2 is a dual-channel, passive direct box for musical instruments and audio system applications.

ISO-2 is suitable for signal connection between different power



### Stage Series

supply systems to ensure the system does not cause potential difference and leakage. It is a passive audio isolator designed to be inserted into the signal chain to block hum and buzz caused by ground loops. The ISO-2 accepts unbalanced or balanced signals and is equally suitable for consumer electronics and professional line-level devices.

The Stage Series has a compact but sturdy body that can be easily carried or installed by musicians or system engineers.





**HULK 380 BSW**



**HULK 380 BEAM**



**PLUTO 1000**



**PLUTO 2000**



**PLUTO 3000**



**PLUTO 4000**



**SUPER STRIKER 10W X 19**



**STRIKER CAM3/ETZ**



**STRIKER RAYTHEON**



**Abyen LED SCREEN**



**Look Solutions FOG & HAZE**



**ADAMSON SOUND SYSTEMS**



**SR 1 & SR 10**



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## KERALA'S BASIL LIGHT & SOUND CHOOSES AUDIOCENTER K-LA 212 DSP

With years of experience in providing top notch solutions for audio-visual reinforcement across application segments, **Basil Light & Sound** has created a name for itself as one of the key players in the audio reinforcement solutions market in Kerala today.

Operating out of Katappana in Kerala's Idukki district, Basil Light & Sound has been a prominent solutions provider, with most event and concert organizers and clients seeking the company's expertise in professional audio solutions (along

array elements along with 6 units of the matching pair high-performance **K-LA218 subwoofers**. The entire system was purchased from Kundara based Bass Agencies – an authorized dealer of Audiocenter products in the region.

The compact AUDIOCENTER K-LA 212 DSP is an active DSP-controlled line array speaker that features a novel phase corrector, which shifts the center of the speakers closer to the center of the box and ensures that the working frequency and the waveguides system are always maintained. The line-array module's

from birch plywood ensures rugged durability, whereas its unique design with integrated hardware built-in to the cabinet allows for multiple rigging options including vertical suspension.

Alongside the K-LA 218 DSP is an active DSP-controlled Dual 18"subwoofer that is designed to meet the high requirements of touring performance, rental and fixed installation, with the LF drivers of K-LA 218 DSP featuring two customized Audiocenter 18"drivers (4"voice coil). The unit features 3 user-selectable low-pass filters (80Hz,100Hz,120Hz) that help in ensuring optimum low-frequency delivery irrespective of the performance environment.

**Mr. Basil**, the company's Director, talks about the key factors that influenced Basil Light & Sound's purchase of the AUDIOCENTER K-LA 212 DSP rig, as he stated, "The Audiocenter K-LA 212 DSP is super powerful, super-efficient, super reliable and super easy to use and work with. Moreover, when combined with the amazing low-frequency performance of the K-LA 218 DSP, the system becomes extraordinary without a doubt. We were impressed with the performance of the system from the moment we heard it, and there was no doubt about us purchasing the system thereon. In addition, the 3-Year No questions asked Amplifier warranty was very important to us. We're thrilled to have the new AUDIOCENTER K-LA DSP rig, and we're confident that this move will do wonders for an enhanced scope of business in the days to come!"

Immediately after acquiring the

new Audiocenter system, Basil Sound team put it to field for several events including large scale celebrations asserting that the new system added great sound and great energy to all the respective events.

Sharing a comment about their role in the proceedings, **Manoj** of Bass Agencies says, "We are elated to have been of service to Mr. Basil and his team at Basil Light & Sound in helping them successfully achieve the all-important goal of great sound performance for every event through their newly acquired AUDIOCENTER K-LA DSP system. A special word of thanks to **Narain Pro Audio & Lighting LLP**; as the official distributors of Audiocenter products in India, they have lived up to their stellar reputation in the market for delivering quality solutions and backing it up with great sales and after-sales service and support. This in-turn has helped us to extend the same high standard of quality service and support to customers like Basil Light & Sound."

**Manoj Motwani** – Director of Narain Pro Audio & Lighting LLP – shared his comment, stating, "We are glad to welcome the entire team at Basil Light & Sound into the Audiocenter's ever-growing family of happy customers in India. We thank Bass Agencies for the great work they've been doing, and through them we look forward to serving Basil Light & Sound with their future technical solution requirements, just as we have for many of our other satisfied clients across the country".



Mr. Basil with his new inventory from Audiocenter's K-LA series

with lighting and visual solutions) for their respective events. And with the sudden explosion in the gig scene over recent times, Basil Sound has further reinforced their commitment to providing clients with nothing less than the very best in live sound, as they have proudly added to their inventory a total of 8 units of the world-class **AUDIOCENTER K-LA 212 DSP** line

HF section features two drivers with composite membrane (2.84" voice coil), while two customized drivers with 3" voice coils comprise the LF sections. The high-end on-board DSP features 96kHz sampling frequency with 56-bit precision, whereas high-performance Class-D amplification from Pascal ensures optimum levels of power. In addition, the construction of the modules

## SHURE SOUTH ASIA WELCOMES NEW MARKET DEVELOPMENT MANAGER

**Shure Incorporated** has announced that **Fali Damania** has joined the Company's sales team in South Asia as Market Development Manager for Pro audio. In this role, Damania will build and nurture Shure's relationships across India with audio engineers in production rental companies, broadcasting, and theaters.

Damania holds a Bachelor's degree in Electronics Engineering and a diploma in Recording Arts and Sciences from Recording Arts, Canada.

He has 15 years of experience in pro audio, starting his career at Sound.com before working as a freelance sound engineer at major concerts and festivals.

"Fali's role as a market development manager for our Pro audio vertical will enable him to provide education about Shure audio solutions and collect valuable feedback from the market on its wants and needs," explained **Chicco Hiranandani**, Director of Sales for Shure South Asia.

"We know he will make significant contributions in this important position at Shure."

"When the opportunity arose to work with a legendary company like Shure, I just had to take it," commented Damania. "Besides touring, I am passionate about education in the pro audio domain. From being a user and owner of several Shure products to now working with the Company, I couldn't have asked for a better start to 2020."



Fali Damania



# SUNBURN ROCKS WITH FULL SPECTRUM SOUND

***STONEWATER delivers true frequency response from 20 Hz to 20Khz***



One of Asia's largest music festivals, **OPPO Sunburn** in association with Percept Live and Klassique Events Goa returned to its birthplace Goa, this December after a hiatus of 3 years. The festival which made a grand homecoming for its 13th edition at Vagator for a three-day showcase from 27th to 29th of December 2019, yet again delivered over-the-top, out-of-this-world production, which witnessed probably one of Sunburn's biggest turnouts ever! The

festival saw many great performances from some of the biggest international and Indian DJs like **DJ Snake, Joans Blues, Chain Smokers, Flume, Martin Garrix, Shaan, SarteK, BEMET, Julia Bliss, Basshunk, and Basspatch**, 5-time DJ Award winner **Chilean-Swiss DJ Luciano**, to name just a few, across 5 stages at the festival- **Main Stage, Second Stage, Solaris Sin City, Solaris Vivrant** and **Psychedelic Circus**.

Upping the ante at the Psychedelic stage in terms of sound reinforcement

was Pune based **STONEWATER Audio Labs** with the debut of their **Full Spectrum (FSS) Sound System**.

The Psychedelic stage was home to a very unique experience for audio and music professionals /enthusiasts. For the first time ever, in India, one could experience the entire spectrum of the human auditory potential, from 20Hz to 20 KHz, at a major mainstream outdoor event. This was made possible by the recently launched; Point Source based "Full Spectrum Sound" System (FSS) by

Stonewater Audio Labs. One of India's leading rental companies – **NJSM**, deployed the system.

"We at NJSM have been associated with Sunburn for over 3 years now and we constantly strive to deliver something new and in tune with the Music that's been played whereby delivering an experience that the listeners want. After studying a lot, we found that Stonewater Audio Labs was the best bet," said **Sanchet Suvarna** from NJSM.

Even among some of the best tour-





## System Configuration:

**Mid-High:** 8 nos of Stonewater P800 long throw, point source loudspeakers

**Kick Subwoofers:** 12 nos of Stonewater PXB218 Hybrid Horn-Reflex subwoofers

**INFRA-SUBWOOFER:** 6 nos Stonewater IFR3000 INFRA

**Subwoofer arrangement:** Two Tier End-Fire Array

**Mid-High arrangement:** One cluster of 4 nos P800 Per side

**Amplifiers:** 8 nos of Stonewater B4i, 4 channel amplifiers (3000W x 4 @ 4 ohms).

**DSP:** Stonewater DC48, 4In-8Out digital speaker management system.

ing systems available currently, rarely do you find any meaningful frequency response below 30 Hz or above 15 KHz. There is a lot of vital music content in modern music recordings, which are in the missing frequencies, especially on the low-frequency end. The very low frequency content has a deep and in-expressible emotional impact on the listener, if and when reproduced accurately. This was the core idea behind the development of our Full Spectrum Sound System," says **Vikram Shetty**, Director at Stonewater Audio Labs.

## System Configuration:

NJSM, opted to fly a cluster of 4 Stonewater **P800** long throw, point source loudspeakers on each side of the stage. The dedicated Stonewater Flyware ensures precise angles between the individual speakers, which allow them to acoustically integrate with each other in a seamless manner.

To achieve an optimum balance of Definition, bandwidth and pattern control, 12 Stonewater **PXB218 Hybrid Horn-Reflex subwoofers** and 6 Stone-

water **IFR3000 INFRA subwoofers** were deployed in a Two Tier End-Fire Array arrangement.

The Stonewater **DC48**, 4In-8Out digital speaker management system managed processing with a class leading dynamic range of 117 Db and advanced features like "predictive limiting" for rock solid speaker protection even under extreme conditions. Robust and cutting-edge loudspeaker amplification was provided by 8 Stonewater **B4i**, 4 channel amplifiers (3000W x 4 @ 4 ohms). It is a high density amplifier with 4 independent power supply sections in each amplifier.

The Stonewater "Full Spectrum Sound" system appears to have created a new niche in high-end professional audio, by virtue of being a touring system that has a true frequency response from 20 Hz to 20KHz. This effectively means, the system can reproduce, practically anything that you are capable of hearing. The system is a 5-Way configuration that employs a 2-tier subwoofer system comprising of the **PXB218 Kick Subwoofer** and the **IFR3000 INFRA-SUBWOOFER**. The remaining frequencies are produced using two clusters of the Long Throw, 3-Way, High SPL point source Loudspeaker - the P800. Each P800 is capable of producing a staggering maximum SPL of 143 dB, with a frequency response from 85 Hz to 20 KHz.

"A point source system that can have the integrity of a strong technical support team and highly engineered products, backed by the know-how of Vikram Shetty, was the key reason for having chosen this system," says **Sachit**

**Subramanian** from NJSM.

Rental Company, **Khade Pro Sound** from Sankeshwar in Karnataka, who also own a large tour audio inventory from Stonewater Audio Labs, provided local crew to ensure smooth functioning on stage. Ably supporting the entire team were the directors of Stonewater, **Vikram Shetty** and **Mohit Palesha**.

## Advantages over Line Array Systems:

"Apart from the incredibly wide frequency response of the FSS system, the point source principle brings in some significant advantages over traditional line arrays. High frequency response at longer distances is much better due to reduced number of points of origin. The overall system has a much better impulse response and vastly reduced time smearing. This results in high definition sound with superb dynamics and also a much lower propensity for feedback," said Vikram Shetty.

## Testimonials from Visiting DJs:

Needless to stay, artists performing at the psychedelic stage were elated with the experience

**Vinay Menon**, Stage Producer for the Psychedelic Stage said, "The psychedelic stage is my baby and I produce it all the time. This sound is amazing. I have never heard anything like this. All the artists have really enjoyed it and I have enjoyed it."

"Today is the first time I have played on Stonewater and the experience was overwhelming. So huge, so crisp, so

## Crew Members:

**From NJSM:** Sanchet Suvarna, Sachit Subramanian

**From Khade Sound:** Santhosh Khade, Satish Khade

**From Stonewater Audio Labs:** Vikram Shetty, Mohit Palesha

clear ...muaaah!!! " said **DJ Illumination** from "Xerox and Illumination" from Israel

"This is a really nice system. I travelled the world and I have listened to many sound systems. But this system is different. It is just awesome. Really good," echoed **Chaban**, guitarist of popular Ukrainian band "Shanti People".

Indian DJs **Designer Hippies** and **DJ DiscoBar** who performed at the psychedelic stage also reinforced what their international counterparts had expressed.

"The sound was epic! Stonewater it just blew my mind! I would love to have this at every festival that I perform in. It left everybody on the dance floor speechless" says **Designer Hippies**, while **DJ Disco Bar** goes on to add "It is one of the best sound systems I have ever played on. Really amazing."

"In addition to our touring systems, we have also deployed our newly developed audio technologies at select high-end night clubs/bars in Mumbai, Pune, Bangalore, and Delhi. They have created deeply moving, emotional experiences for DJs, musicians and club-goers alike," concludes Vikram Shetty.





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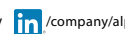
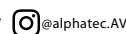
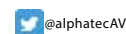
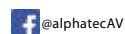
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## DPA DISPLAYS NEW MICROPHONES AT NAMM 2020

**DPA Microphones**, the leading Danish Professional Audio manufacturer of high-quality condenser microphone solutions for professional applications launched new microphones at the 2020 NAMM Show. Here we are taking a comprehensive look at some of the microphones launched.

### DPA 4560 CORE BINAURAL HEADSET MICROPHONE

The 4560 CORE Binaural Headset Microphone is a versatile and flexible headset designed to simplify immersive sound

analysis, sound quality assessment, and sound for theatrical productions or gaming, among others. Jazz and classical musicians have also seen the potential in this mic: recording the sound from the performers' perspective instead of the audience's is a completely new way of sharing the artists' sound experience with fans.

At the heart of DPA's new 4560 CORE Binaural Headset is a pair of 4060 CORE Miniature Microphones mounted on two ear hooks and sitting just outside the user's ear canal (like a pair of earbuds). This makes it possible to directly capture

below the ears and head, and is now also available in brown in addition to the previously released beige and black options. Like the headsets, the **6060 and 6061 CORE Lavaliers** also have new color offerings – brown and white, as well as a white eight-way clip.

With stellar audio and a rugged, IP58 water-resistant rating, DPA's subminiatures have become a notable force among leaders in the industry, this includes sound designers such as Dan Samson, Gareth Fry, Richard Brooker, and Gareth Owen. Since its introduction to the market, DPA's subminiature microphones have been

The 4097 provides the same sonic qualities as the brand's 4099 CORE Instrument Microphone but was designed specifically to capture dynamic choir sound, with both wireless or wired configurations.

The new 4097 Choir Mic also features DPA's famous flat off-axis super-cardioid pattern and, like all DPA microphones, has been designed to be one of the most natural-sounding solutions available. As a result, the microphone has a very high-gain-before-feedback, and due to the off-axis characteristic that DPA is renowned for, it makes the entire



DPA 4560 CORE Binaural Headset Microphone



DPA Microphones' 6000 Series



DPA Microphones 4097 Choir Mic

capture by positioning a miniature microphone at the opening of each ear.

Youtubers, sound designers, podcasters, vloggers and other content creators, including filmmakers who want to capture authentic immersive audio for their projects, can now do so with ease thanks to the launch of the new 4560 CORE Binaural Headset Microphone.

The new binaural headset delivers superior sound quality for which DPA products are internationally renowned. The professional quality of the microphones allows them to capture, in real-time, exactly what each ear is hearing so that those listening on headphones can experience the full immersive sound. These qualities are also appealing to other applications such as sound system documentation, soundscape

(1:1) the sound heard by the person making the recording. The ear hooks are attached to a flexible headset that is simple to fit, comfortable to wear, and easily adjusted to suit the dimensions of each individual head. Foam screens are supplied with the microphones to secure their position and offer damping of wind noise.

In addition to being easily worn, the 4560s can attach to recording gear, like DPA's MMA-A Digital Audio Interface, that connects to any iOS-devices. This gives users a quick and convenient mobile binaural recording solution for any setting.

### DPA MICROPHONES' 6000 SERIES

DPA Microphones' newest versions of its 6000 Series of subminiature high-end pro audio microphones are powered with the CORE by DPA technology.

Among these is the lightweight, one-size-fits-all **6066 CORE Headset** that attaches over the ears, has a three-point spring mechanism to grip

used by London's Royal Academy of Arts; First Baptist Dallas, one of the country's most prominent mega churches; and Australian-based LSS Productions, to name a few.

Measuring in at just three millimeters (0.12 inches) in diameter—the new 6000 Series capsule is 60 percent smaller than those of DPA's existing 4000 Series. While the 6000 Series mics may be small, they are powerful in terms of performance, as all three models incorporate the company's CORE by DPA amplification technology, which reduces distortion and increases dynamic range.

Designed to incorporate many of the features that the industry was searching for in miniature mics, DPA's 6000 Series has quickly grown in popularity.

### DPA MICROPHONES 4097 CHOIR MIC

The **4097 CORE Supercardioid Choir Microphone** is ideal for house of worship and choir applications.

choir sound natural – not just on-axis – but from all angles. This makes using multiple mics on the choir easy for the sound engineer as he can easily mix the various parts of the choir and blend it all together without having to fight the artifacts created from uneven mic pattern pick-up.

Configured with a MicroDot connector and a DPA adapter for wired or wireless, the 4097 allows the user to go wireless, which allows for great flexibility on stage when there are multiple uses of the same space. Featuring the CORE by DPA amplifier technology a clear sound is achieved as it lowers the distortion and expands the dynamic range. Furthermore, the 4097 includes three shock mounts to secure that rumble caused by movement on the stage, is damped effectively, and at a level that is not seen before in these kinds of mics.





PROFESSIONAL MICROPHONE

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AP-RETRO

AP-88

AP-108

MODEL NO	:	AP 108	AP 88	AP RETRO
TYPE	:	DYNAMIC MICROPHONE	DYNAMIC MICROPHONE	DYNAMIC MICROPHONE
FREQUENCY RESPONSE	:	60-15KHZ	60-13KHZ	100-12KHZ
POLAR PATTERN	:	CARDIOID	CARDIOID	CARDIOID
OUTPUT LEVEL	:	-51±3DB (AT 1KHZ)	-54±3DB (AT 1KHZ)	-59±3DB (AT 1KHZ)
OUTPUT IMPEDENCE	:	600Ω (±15%)	600Ω (±15%)	600Ω (±15%)



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## ROLAND LAUNCHES GO-LIVECAST

### Live Streaming Studio for Smartphones

Although it's easy to stream live content with a smartphone, but making broadcasts look professional takes more effort. That's why there is the need for GO: LIVECAST, the simple and affordable way to bring superior production values to webcasting. Roland announced the launch of GO: LIVECAST in January 2020.

#### Pro Production for Smartphone Live Streaming

The hardware/app combo is a fully featured streaming studio that allows mixing sound, display titles, play media, trigger sound effects, and more without needing a computer or dedicated A/V gear. The GO: LIVECAST hardware, companion app, and a smartphone, are all the tools that are required to present engaging live web shows that will rival the most advanced creators on social media.

#### Plug-and-Play Setup

Using GO: LIVECAST is quick and easy—just plug in the smartphone and connect earbuds or headphones for sound monitoring. A built-in mic is ready to capture high-quality sound, complete with on-board reverb. Or plug in a

professional mic via the XLR input—there is a stereo line input as well for adding a guitar preamp, synth, mixer, or other sound source.

#### Add Content to Live Stream

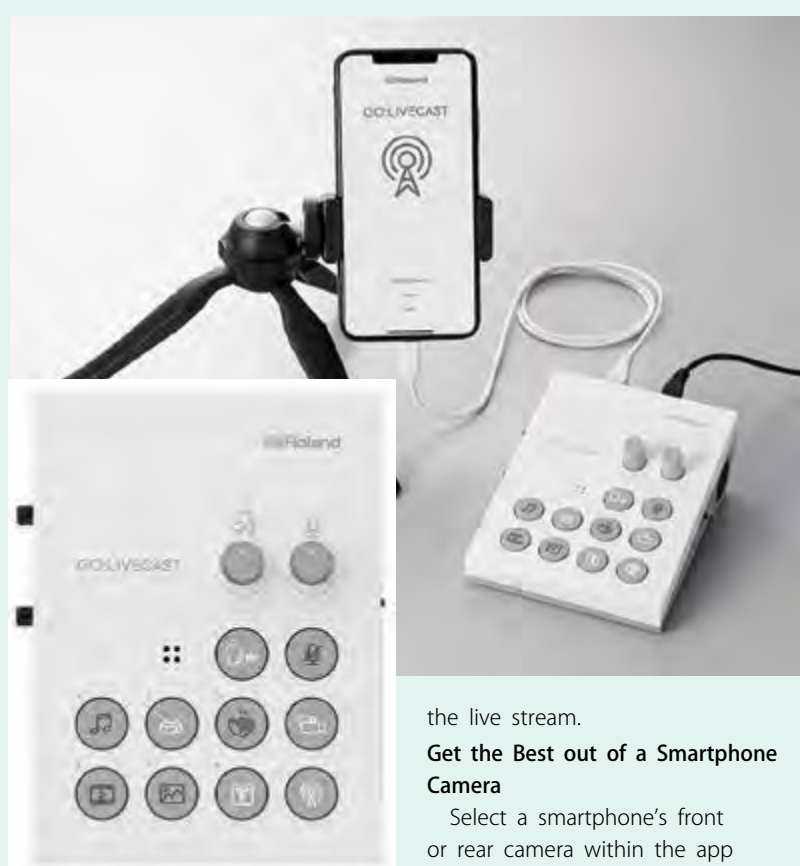
The GO: LIVECAST app includes easy-to-use media tools that bring premium production values to web shows. Create personalized libraries for music, sound effects, photos, and videos, or start creating with a variety of pre-installed options. Custom titles and text are also available, enhancing productions even further. Media elements for different shows can be stored in Live Sets, all queued up and ready for when it's time to go live.

#### Direct Connection with Streaming Platforms

The GO: LIVECAST app logs-in to accounts on Facebook Live, Twitch, YouTube, and other major streaming services. Just select a platform and tap to start webcasting and as it live streams, comments from viewers can be monitored via a scrolling window in the app.

#### Mini Broadcast Studio at the Fingertips

Via a simple, customizable control layout, the GO: LIVECAST hardware



the live stream.

#### Get the Best out of a Smartphone Camera

Select a smartphone's front or rear camera within the app and add a skin filter, if needed, to soften the look. Portrait or landscape mode is automatically set by the phone's positioning, while in-camera mirroring displays the proper left/right perspective to the audience. It's even possible to connect a second smartphone camera over wi-fi, with one-touch switching and support for split-screen views.

allows to direct live presentations and stay fully engaged with the audience. All it takes is a touch to start broadcasting, play music, display titles, launch photos and videos—or even trigger some applause at the end of the show. Knobs provide quick control of mic and media volumes, while the mic-mute button will keep coughs and unwanted sounds out of

## DANLEY INTRODUCES STUDIO 1 AND STUDIO 2 NEARFIELD MONITORS AND STUDIO SUBWOOFER

The new **Danley Studio 1** passive nearfield monitor, **Studio 2** active nearfield monitor, and **Studio Sub subwoofer** connect past and present and draw on Danley's incredible breadth and depth of knowledge and experience to deliver a uniquely transparent studio monitoring experience.

While most reference monitor companies utilize existing technology with minor tweaks, the fundamental compromises inherent in conventional designs are ignored. Danley has applied their patented Synergy Horn technology to the studio monitor market. **Mike Hedden**, President of Danley Sound Lab's notes, "For Tom Danley, creating the Studio 1 monitors and the Studio Sub was a true labor of love. Tom created them because of a burning desire to deliver

something to the studio market they've never experienced before! The Synergy Horn technology has made huge strides into the installed, live sound and cinema markets. It was a logical progression to bring Synergy Horn technology to a market in need of true innovation with a product that surpasses the capabilities of the competition."

The Danley Studio 1 relies on Danley's patented Synergy Crossover design to assure not only a linear frequency response but also a linear phase response. The bottom line being the imaging of the Studio series is simply stunning. The Danley Studio 1 has a smooth response from 63Hz to 20kHz, using just a single 6.5-inch coaxial driver, a seeming impossibility by conventional standards. The Studio 1 requires just

one amp channel and little, if any, processing.

The Studio 2 houses a perfectly-matched amplifier. The Danley Studio Sub uses two 8-inch woofers and Danley's ingenious design to deliver remarkably low distortion down to 33Hz. Coupled with surprising high output, the Studio Sub is tailor-made to pair with the Danley Studio 1 but will work wonderfully with any nearfield monitor. The Studio 2 is designed to be a self-powered stand-alone box with no need for an external sub. Powerful on-board processing as well as having analog, digital balanced XLR inputs as well



The Studio 1 and Studio Sub

as RCA inputs, makes this an easy product to upgrade to.



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*People and Products  
Connecting the World  
of Entertainment*

## JBL PROFESSIONAL INTRODUCE ONE SERIES 104-BT COMPACT REFERENCE MONITORS

HARMAN Professional Solutions has announced the launch of the new **JBL Professional One Series 104-BT and 104-BTW** desktop reference monitors with Bluetooth.

JBL One Series 104-BT reference monitors enable content creators and audio professionals to stream accurate, studio-quality audio via Bluetooth or play back audio using a standard wired connection. With an array of easily accessible input options, smart features and a sleek, compact design, JBL 104-BT monitors provide great sound in every listening scenario, with the added flexibility of wireless streaming. The monitors are available in Black (104-BT) and white (104-BTW) finish options.

The JBL 104-BT reference monitor features a cutting-edge coaxial driver that pairs a contoured low-frequency woofer with a soft-dome tweeter, for accurate frequency response, superior imaging, crisp detail, and a wide sweet spot. The cabinet's low-frequency port works with the driver to deliver impressive low frequency performance down to 60Hz. A powerful 60-watt Class D power amplifier distributes 30 watts per speaker for clear, undistorted,

loudest-in-class output. Moreover, One Series' innovative acoustic design, optimized for desktop use ensures accuracy without the need for additional EQ.

High-bandwidth Bluetooth 5.0 streaming, beyond offering the convenience of audio playback from mobile devices, provides audio professionals the ability to reference mixes over Bluetooth using a professional monitor, rather than a consumer portable device. This ensures that the audio will sound its best, no matter what the playback environment.

"Music production has evolved beyond the recording studio, and today's creative professionals and music lovers need reference monitors that deliver neutral, accurate sound to create mixes that translate well in a variety of listening environments," said **Chris Hansen**, Director, Recording and Content Creation, HARMAN Professional Solutions. "With class-leading sound quality, impressive output, and high-bandwidth Bluetooth 5.0 streaming capabilities, JBL 104-BT monitors provide an accurate, reliable sonic reference and a truly enjoyable listening

experience. They're perfect for musicians, producers, podcasters and professional audio engineers who want a compact reference monitor with the added benefit of Bluetooth at an accessible price."

Aux, RCA, and TRS or combines all inputs. Front-panel volume control allows convenient level adjustments without straying from the sweet spot, and a front-panel headphone jack conveniently mutes the speakers



JBL 104-BT reference monitors integrate smoothly into any production workspace, thanks to smart features like a front-panel input control that selects Bluetooth,

when you switch to headphones. Dual 1/4-inch balanced, dual RCA and single 1/8-inch inputs, along with Bluetooth accommodate a wide range of signal sources.

## WAVES AUDIO SHIPPING THE BERZERK PLUGIN

Waves Audio, is now shipping the Waves Berzerk, a first in a new line of Waves distortion plugins.

Waves Berzerk is a go-to plugin designed for wild, unhinged and creative distortion and includes 10 all-original distortion shapes, advanced feedback, pitch, dynamics, sidechaining and M/S options for versatile experimentation—plus a "Go Berzerk!" button for randomized, unpredictable distortion sonic madness.

Waves Berzerk includes 10 unique shapes, each with its own personality. Some transform the sound to add grit, dirt and character; others reach unprecedented sonic extremes.

The "Go Berzerk!" button creates random variations in each waveshape, letting you personalize the signal.

Turn the Density knob to shift the waveshape in amplitude; the unique Feedback section is like an on-board analog synth. It can either run a tunable sine wave through the

signal, producing interesting bass lines, melodies or rhythms; or it can oscillate while "riding" the input—think "crazy" synthesized vocal FX. It also includes a Speed knob to

shape the groove, as well as octave, pitch, range and blend adjustments—all of which you can sidechain.

The Dynamics section sits before the distortion and twists the character of the generated harmonics. The "Up/Down" knob controls a gate/expander, which, after setting the threshold, will affect the range of sound affected by the clipper. The "Rider" option rides the amount of gain hitting the distortion, giving you full dynamic control.

Berzerk also offers unique M/S processing, distorting just the mids or just the sides when needed; a

master Temperature knob to control the overall color and feel of the output; and an overall mix knob.

### Waves Berzerk features:

- Creative distortion plugin designed to inspire musical ideas
- 10 original distortion shapes with wildly different personalities
- "Go Berzerk" button to randomize each distortion shape in surprising ways
- Versatile Feedback oscillation section with pitch/speed controls, int/ext sidechaining & more
- Dynamics section to gate, expand or ride the input into the distortion
- M/S processing enables to distort just mids or just sides while leaving the rest clean
- Detailed EQ section
- Temperature control to set overall signal color & warmth





A defining achievement in  
**HIGH-GAIN ROCK TONE**



## Boss Waza AMP Cabinet 212

The BOSS Waza Amp Cabinet 212 is specially crafted for compatibility with the Waza Amp Head, and is a combination born of the same innovative spirit used in pursuit of the ideal rock sound from the beginning of the rock era.

## Katana Head MK II

Katana MkII takes the acclaimed Katana guitar amp series to the next level, turbocharging the core platform with more sounds, more effects, and more features. Newly voiced variations are now available for all five-amp characters, doubling the tonal options.



## Boss Waza AMP Cabinet 412

The Waza Amp Head and Cabinet 412 are rooted in the long history of amp development and offer the original sound of the very first rock stack amp. In addition, consistent with the evolution of the ideal rock sound, the BOSS engineers have also discovered their own interpretation, which is called the "Waza Brown Sound."

## Boss Waza Amp Head

The BOSS Waza Amp Head is a rugged 150-watt amp born of the same innovative spirit used in pursuit of the ideal rock sound. The Waza Amp Head and companion cabinets are rooted in the long history of rock amp development and offer the original sound of the very first rock stack amp.



**WORTH IT  
 EVERY TIME**



## Roland KC-600

Packed with many new design features, the KC-600 updates the previous-generation KC-550, Roland's top-selling keyboard amp. The power has been increased to 200 watts, and the two-way speaker system features a newly designed 15-inch custom woofer for improved sound quality.



## Roland KC-990

The flagship KC-990 is a performance powerhouse filled with high-end features. Offering four onboard DSP effects, four stereo input channels, a stereo aux input, and support for an XLR vocal mic, it's a great all-in-one solution for players with large keyboard setups and small groups performing with electronic instruments and backing tracks.

### AVAILABLE AT EXCLUSIVE STORES:

**EAST - Guwahati:** Rhythm Space (09864055240), **Kolkata:** Roland Pro Music (09831005558), Singh Musicals (09830421657), S. S. Music (09830742060)  
**NORTH - Amritsar:** Khem Singh & Sons (0183-2541309), **Dehradun:** Venus Music Care (09837121890), **Delhi:** Raj Musicals (09899272572)  
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**Jalandhar:** Calcutta Music House (09814075422), **Lucknow:** Alto Link Vision (09050211999), **Ludhiana:** Calcutta Music Industry (0161-2446774)  
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## NOW AVAILABLE AVID S1 AUDIO CONTROL SURFACE

*Avid S1 delivers the massive mixing power of larger consoles like the Avid S6, in a more compact and affordable control surface for smaller facilities and projects or home studios*

Avid has announced the availability of the Avid S1 audio control surface designed for music mixing, audio post, and video production artists. It is designed to unparalleled speed, rich visual feedback, and software integration of Avid's high-end consoles in a portable, slimline surface that's an easy fit for any space.

Avid S1 gives audio specialists the hands-on speed, precision, and software integration needed to deliver better-sounding mixes faster. From recording and editing tracks to mixing and monitoring in stereo or surround, Avid S1 provides the comprehensive control and visual feedback to accelerate any music workflow. Like the industry-standard Avid S6 and Avid S4,



**Avid S1 audio control surface**

Avid S1 is powered by EUCON to offer deep integration with Pro Tools and Media Composer, plus native support for third-party audio and video applications like Logic Pro,

Cubase, Premiere Pro, and more. Users can even switch between multiple applications—and workstations—at the touch of a button, providing the most fluid editing and mixing experience.

Avid S1 integrates with the free Avid Control app for iOS and Android tablets and smartphones, providing rich visual feedback to enhance workflows, ergonomic efficiency, and Avid S6-style metering and processing views so users can navigate large sessions quickly, mix more intuitively, and quickly turn around better sounding mixes. From touch-sensitive motorized faders and knobs to fast-access touchscreen workflows and Soft Keys for completing complex tasks with a single touch, Avid S1

provides the speed and versatility to accelerate any music, audio post, or video project. Users also can easily scale the surface as their needs grow by connecting up to four units together—and even add an Avid Dock—to create a single extended and integrated surface.

"We designed the Avid S1 control surface with home or smaller studios and budgets in mind," said **Rob D'Amico**, Director of Product Marketing, Audio & Video Solutions at Avid. "We strive to give customers the integrated hardware and software workflows they need to create the best sounding mixes. The Avid S1 enables users to create complex mixes without having to compromise on quality and opens up a world of capabilities never before possible with a control surface at this price."

## AKAI PROFESSIONAL UPDATES FORCE & MPC WITH ABLETON LIVE CONTROL

Akai Professional has announced updates for Force firmware 3.0.4 and MPC firmware 2.7 that include the highly-anticipated Ableton Live Control.

Force and MPC come pre-mapped for deep tactile control of Ableton Live clip launching, mixer panel and of course, Ableton devices. Ableton Live Control functions wirelessly over a Wi-Fi network via Ableton Link. Ableton Live Control mode has been designed to enable users to instantly switch between standalone operation and Live Control mode without ever stopping playback from either platform.

With Ableton Control integration,

Akai Professional has bridged the standalone and Ableton worlds seamlessly for an unprecedented amount of creative power.

### **Ableton Live Control Features:**

- **Matrix Tab** displays an 8x8 section of Live's Session View marked in the Live GUI by the colored session ring. Users have a complete overview of—and immediate access to—the scenes, clips, play status, recording status as well as control over playback, recording quantize functions and scene/clip management.
- **Mixer Tab** provides instant access to Live's key mixing functions,

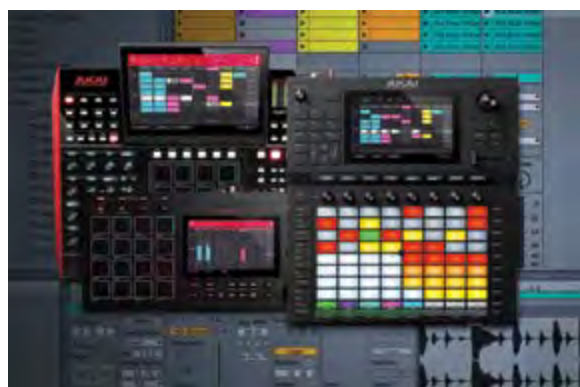
divided into three views for control of Levels, Main mixer parameters and Sends. Using Force's touch interface, control any slider/knob or bring up a full screen editor for precise adjustments.

• **Device Control Tab** controls the device on the current track at Ableton Live's Blue

Hand position, providing control and key visual feedback on Ableton Instruments and third-party plugins.

- **Control Bar** at the top of the touch user interface, users can customize

the Control Bar to display preset displays for Session, Arrangement and Performance modes including BPM, Phase Nudge Down/Up, Metronome, Follow, Overdub, Automation Arm and more.



**AKAI Professional - Ableton Live Control integration Force - MPC**

## MXL MICROPHONES DEBUTS NEW REVELATION II MICROPHONE

**MXL Microphones**, a leading manufacturer of consumer and professional audio products, has announced the development of the successor to the MXL REVELATION. The new REVELATION II microphone, which debuted at NAMM 2020, will utilize the latest design and manufacturing technologies to offer the remarkable clarity and versatility of the classic MXL REVELATION, but at a fraction of the price.

The MXL REVELATION II will offer the warmth and intimacy of a quality tube microphone, but with extended clarity and punch

for balanced recording. A dual gold-sputtered, 6-micron diaphragm and hand-selected EF86 pentode tube provide warm, rich, and transparent sound. The REVELATION II's polar pattern selection is virtually

limitless, controllable by a variable pattern control knob.

"The MXL REVELATION has been widely regarded as the greatest microphone that MXL ever made," states **Trevor Fedele**, Director of Sales at MXL Microphones. "The new REVELATION II captures the performance and versatility of the original REVELATION, but will be more accessible to artists at a lower price point."







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## AKG ANNOUNCES NEW K361-BT AND K371-BT PROFESSIONAL STUDIO HEADPHONES

*New headphones deliver studio-quality sound, Bluetooth functionality, plush comfort and a sleek, sturdy design that is ideal for mobile lifestyles*

**HARMAN Professional Solutions** has announced the launch of their new **AKG K361-BT** and **K371-BT** professional studio headphones featuring Bluetooth connectivity at the 2020 NAMM show and the 2020 CES.

AKG K361-BT and K371-BT headphones are ideal for mobile artists, engineers, podcasters, and beatmakers who want the flexibility of wired or wireless connectivity combined with studio-quality sound. The K361-BT and K371-BT feature an over-ear, closed-back design that is precision-engineered to reproduce natural, balanced audio in exceptional detail, so users can make more confident decisions when mixing and editing. With a stunning frequency response—15 Hz to 28 kHz in the K361-BT and 5 Hz to 40 kHz in the K371-BT—they deliver the deepest bass and highest highs in their class. Both models offer the convenience of switchable Bluetooth wireless and wired connectivity, with a built-in microphone for two-way Bluetooth communication.

"Today's artists and content creators are creating in more locations than ever before, and they need uncompromising audio performance at home, in the studio and on the

foldable design, K361-BT and K371-BT headphones are the perfect reference headphones for today's mobile creative lifestyles".

K361-BT and K371-BT professional

addition, with the latest generation Bluetooth 5.0 technology, users will enjoy up to 40 hours of wire-free listening between charges. The hybrid wired/Bluetooth design allows users to reference their mixes in a variety of listening scenarios, while an integrated microphone enables hands-free phone calls.

The K361-BT and K371-BT have been engineered and rigorously tested to ensure reliability in the most demanding conditions. An over-ear, closed-back design provides superior isolation in noisy environments while minimizing low-end leakage. Additionally, the headphones are intentionally styled with ergonomic plush, slow-retention foam pads for long-wearing comfort, with adjustable calibrated headbands that deliver a perfect fit, every time. For vocalists who prefer single-ear monitoring while recording, the earcups swivel 90 degrees, and with a weight of less than 8 ounces, the K361-BT and K371-BT keep ear fatigue at bay, even on the longest sessions.



road," said **Chris Hansen**, Director Recording and Content Creation, HARMAN Professional Solutions. "With class-leading frequency responses, Bluetooth connectivity and ergonomic,

headphones feature high-sensitivity, largest-in-class 50mm drivers and pure oxygen-free copper voice coils to deliver clear, detailed and balanced lows, mids and highs. In

## PRESONUS INTRODUCES THREE NEW STUDIO LIVE ARC MIXERS

PreSonus' new **StudioLive ARC series** combines a multi-channel 24-bit, 96 kHz, USB-C compatible, USB 2.0 audio interface with an analog mixer front-end, to create a hybrid design that simplifies recording and mixing using a single intuitive console. Featuring newly designed high-headroom analog circuits, along

Three models available in this series include:

The **StudioLive AR8c** offers 4 mic preamps and 6 balanced line inputs for 8x4 recording/playback, while the **StudioLive AR12c** sports 8 mic preamps and 12 balanced line inputs for 14x4 recording/playback, and the **StudioLive AR16c** delivers 12 mic

channel; mic/line boost for low-level vintage synths, broadcast microphones, and consumer electronics; and Bluetooth 5.0 connectivity. The onboard stereo SD recorder is great for recording a rehearsal or a mobile podcast interview or quickly capturing songwriting ideas. An all-new digital effects processor with 16 presets

All StudioLive ARC series mixers have PreSonus' unique Super Channel, which can handle four stereo analog and digital sources at once. The Super Channel combines wireless stereo Bluetooth 5.0 input, stereo input from the onboard SD recorder or from a USB-connected Mac or Windows PC, and RCA and 1/8-inch stereo inputs—great for use with turntables and high-tech devices.

The new mixers come with a powerful recording software suite for Mac and Windows augmented with the Studio Magic Plug-in Suite, a collection of useful plug-ins in VST, AU, and AAX formats.

With their powerful and flexible recording and mixing capabilities, combined with classic analog sound and familiarity, PreSonus StudioLive ARC series hybrid mixers fulfill the diverse needs of today's musicians and content creators.



**StudioLive AR8c**

**StudioLive AR12c**

**StudioLive AR16c**

with the company's high-gain XMAX Class A mic preamps, StudioLive ARC audio interface mixers fulfill the needs of both modern musicians and content creators.

preamps and 16 balanced line inputs for 18x4 recording/playback. All models support recording every channel plus the main mix over USB and feature a musical, 3-band analog EQ on every

supplies rich reverbs, lush delays, and fat chorusing and includes a dedicated send and return, as well as a bypass footswitch jack (footswitch optional).



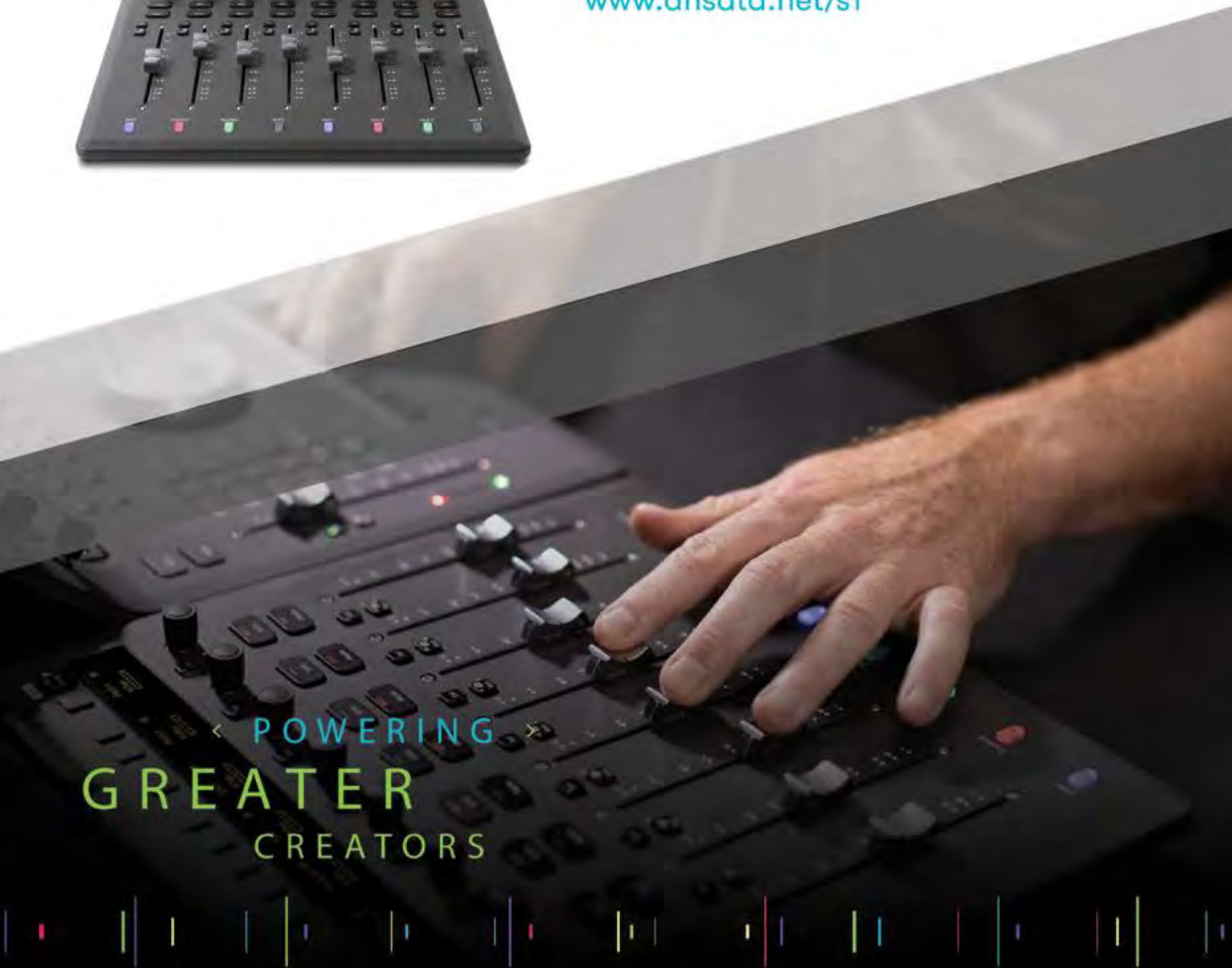


## Avid S1 Control Surface



Get the unparalleled speed, rich visual feedback, and software integration of Avid's high-end consoles in a slimline surface that's an easy fit for any space or budget.

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The last 12 months have seen a revolution in pro audio, lighting, DJ Gear and installation. With new gear, equipment, and companies bringing in new technology, the industry is opening up to new possibilities and also delivering Made in India products within budget.

Moving into the next decade there is much more than ever that is still left to the imagination. We are excited to see what 2020 holds for the industry, but for now let's look at the **Top 50** products launched in 2019.

In no particular order, **PT** has put together a comprehensive, non-defining list of top 50 new products launched in the pro audio, lighting, installation, and DJ industry.





**L65+L65S  
column system**



## Audiocenter L65+L65s

The L65+L65S column system from Audiocenter's revered L-series offers an enormous 3600 watts of power with a frequency response of 40 Hz to 20 kHz and a maximum sound-level pressure of 134 dB (peak).

The L65 passive full-range column speaker comprises six units of 5" custom-made Audiocenter ferrite drivers and four units of 1" custom-made Beyma ferrite drivers, all of which are designed with sophisticated measurement and arranged elaborately by physical calibration technology Phycal to improve vertical acoustic beam coverage; with the loudspeaker unit offering a horizontal coverage angle (symmetrical) of 110° and vertical coverage angle (symmetrical) of 10°. Additionally, the ETE waveguide system developed by Audiocenter works in perfect harmony with customized horn design to provide accurate horizontal coverage and ensure well-balanced clear sound.

The L65S subwoofer offers frequency response of 20Hz-20KHz(±0.5dB) through a single customized 18" Audiocenter ferrite driver; powered by an ultra-efficient Class-D amplifier, with an in-built high-performance 24-bit/96 kHz custom DSP providing unparalleled control over the entire system through functions like volume control (total system and individual for subwoofer), delay, EQ, crossover, phase alignment etc. for precision

adjustment, reliable operation and distortion-free audio at all levels.

## Nx Audio Hawk-15DSP

The new Hawk-15DSP from NX Audio is an ultra-efficient, ultra compact and lightweight active 2-way 1100W 15" portable speaker system with DSP which features a Class-AB amplifier that powers the 1.75" compression driver, while an efficient Class-D amplifier powers the 15" long-excursion woofer (with a 2.5" voice coil) which combine for a frequency response of 46 Hz to 19 kHz with a maximum SPL of 136 dB and 90° x 60° dispersion.

The high-performance DSP module allows for easy sound customization, with the graphic backlit display providing access to select and



**Hawk-15DSP portable speaker**

choose from several sound programs and edit the sound character. Separately controllable inputs allow users to connect a microphone, a mixer, an instrument, or a player; and on both input channels users can connect a cable with XLR or 6.3 Jack connectors.

The HAWK-15DSP from NX Audio is well-suited for FOH and monitor applications, delay lines, portable PA systems, and fixed installations.

## Allen & Heath Avantis

Avantis is a 96 kHz digital mixer by Allen & Heath based on XCVI FPGA engine. Avantis puts next-generation technology in a 64 channel / 42 configurable bus console, with dual Full HD touchscreens, a super-flexible workflow with Continuity UI, extensive I/O options, add-on processing from our flagship dLive mixing system, and



**Avantis  
digital mixer**

a rugged full metal chassis.

The console also provides a highly configurable FastGrab tab on the right-hand side of each screen, offering another way to quickly and easily access control of aux sends, EQ, compressor and FX on the currently selected channel or spot channel. Also onboard are 16 DCA groups (with spill functionality) and eight mute groups. Automatic Mic Mixing (AMM) of up to 64 microphone sources can be distributed to 1, 2, or 4 zones, and it's capable of running in classic gain sharing mode or optionally as a NOM (number of open microphones) algorithm.

Avantis is loaded with processing tools designed to meet the demands of most users and applications, including compressors, EQs, and Allen & Heath's acclaimed RackExtra FX units (12 slots).

## NEOLUX Stage

NEOLUX offers high-pressure discharge lamps that provide high luminance and brightness for entertainment fixture applications. The Stage Entertainment Lamps are lightweight and compact reflector lamps suited for small moving heads. The lamps are available in three different variants: NEOLUX STAGE 230W, NEOLUX STAGE 280W, and NEOLUX STAGE 330W. The burner design allows any burning position and offers high luminance and brightness.

Engineered by R&D teams in Germany, NEOLUX lighting products are tested throughout the production process and certified to a number of



**Stage 230W Entertainment Lamps**

German and international standards such as RoHs, REACH and ISO.

## Avid S1

Avid S1 gives hands-on control of audio and video software. Together with the free Avid Control app on iPad or Android tablet, it provides great ergonomic efficiency, easy touch workflows, and Avid S6-style metering and processing views.

Avid S1 fits easily between display and keyboard, and packs a lot of mixing power. From motorized faders and knobs, to fast-access touchscreen workflows and Soft Keys to perform complex tasks with a single press, S1 provides the speed and versatility to accelerate any music, audio post, or video project.

S1 is powered by EUCON, giving full touch and tactile access to a



**S1 Audio Control Surface**

host of Avid and third-party software functions and controls. Switch between multiple applications—and workstations—at the touch of a button, providing the most fluid editing and mixing experience.

Connect multiple S1 units together to create an extended, fully integrated control surface that provides more tactile control to handle larger mixes.

## DPA 2028

Perfect for everyone from indie artists to international touring singers, the 2028 mic is ideally suited for live stage performances, broadcast and pro AV applications.



### 2028 vocal microphone

The 2028 has been cohesively designed to provide the same sound as the brand's flagship handheld mic, the 4018 VL. The 2028 features a brand-new fixed-position capsule, as well as a specially designed shock-mount and pop filter. It exhibits a supercardioid polar pattern, with the famous DPA uniform off-axis response. This gives the microphone a very high-gain-before-feedback and makes it easier to handle bleed from other instruments in close proximity, picking up sound in a natural way.

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

### RME Babyface Pro FS

Babyface Pro FS is an updated version of the compact USB audio interface Babyface Pro. The Babyface Pro FS offers the full SteadyClock FS circuit as in the ADI-2 Pro FS for lowest jitter and highest jitter immunity.

The new RME Babyface Pro FS is created from a single block of aluminum with specially designed analogue and digital circuits.

The Babyface Pro FS also includes the powerful digital real-time mixer TotalMix FX. It allows fully independent routing and mixing of input and playback channels to all physical outputs. Independent stereo submixes plus a comprehensive Control Room section offer unrivalled monitoring capabilities and unsurpassed routing flexibility. TotalMix Remote enhances the power



Babyface Pro FS

of the Babyface Pro FS by enabling remote control via iOS, PC or Mac. The Babyface Pro FS can be controlled directly from another computer on the same network, including over Wi-Fi.

### iZotope Dialogue Match

Dialogue Match is a Pro Tools AudioSuite plug-in that learns the reverb, EQ, and ambience data of a dialogue recording. It can then



#### Dialogue Match EQ module

apply the profile to any other dialogue recording, giving your scene audio consistency across multiple environments. Dialogue Match is intended for re-recording mixers who deliver the final sound mix for films and television programs.

Dialogue Match uses iZotope's powerful EQ matching mechanics in order to produce a comprehensive replica of your reference file's spectral profile. By analyzing the reflections in audio files, Dialogue Match instantly generates a matching reverb preset to place both files in the same virtual space. It leverages the power of RX's ambience matching technology to capture and create a more comprehensive profile of your dialogue recordings.

Dialogue Match can also be

customized according to preferences. Advanced controls for each of the three modules can be displayed or hidden, allowing to quickly access any feature. A fully resizable and collapsible UI allows to further customize the Dialogue Match plug-in window to fit post production workflow.

### d&b audiotechnik A-Series Array

The A-Series augmented array loudspeakers from d&b audiotechnik are specifically designed for medium scale applications. Combining variable splay angles, two approaches to

acoustic optimization, and advanced waveguide design, the A-Series addresses applications where coverage flexibility in both the horizontal and the vertical is paramount.

Realizing all the adaptability of a point source cluster with the extensive control options of a d&b line array, the system comprises the AL60 and AL90 loudspeakers, with ALi60 and ALi90 offering cabinets designed specifically for permanent installation.

adjacent cabinets can be set in five degree increments from -10° to +10° allowing the finest of adjustments and ensuring sound is directed precisely where it is wanted.

The A-Series is compatible with a range of d&b amplifiers and subwoofers so that the system in its entirety can be tailored to meet specific application needs.

### Ahuja ZXA-500DP

The ZXA-500DP is a 500W rated dual channel power amplifier unlike any other amplifier available in the sense that it offers fidelity of a power amplifier with versatility of a mixer amplifier. Fan Cooled, ZXA-500DP delivers 180 watts of clean power on each zone making it suitable to drive 4 X 90 watts or 4 X 60 watts wall speakers. The fully loaded amplifier is equipped with user-friendly features like Microphone Input (with switchable priority over other inputs), Bluetooth Connectivity, MP3 Playback & Recording through USB & SD Card, Digital FM Tuner and RCA inputs to connect auxiliary source like Mobile, Ipad, Laptop etc.

AHUJA ASX & SMX series 2-way wall speakers driven by ZXA-500DP, supplemented by 12" active sub-woofer SUB-300A is an ideal combination for sound reinforcement applications at venues like Small Banquets, Pubs, Lounges, Cafés, Dance Studios, Gymnasiums and even Living



ZXA-500DP dual channel amplifier

Using the appropriate frame, up to four AL60/AL90 and ALi60/ALi90 loudspeakers can be flown either in vertical or horizontal arrays.

Variable splay angles between

Rooms. Smart looks coupled with smart features have made ZXA-500DP a runaway success in the first year of introduction itself generating high excitement and even higher sales.



A-Series Array loudspeaker



## Yamaha Stagepas 1K

The STAGEPAS 1K is an all-in-one portable PA system that allows to quickly and easily transform any location into a stage. Delivering professional level audio performance with a setup so simple it enables aspiring artists to focus on their music and get the most out of their performances.

The STAGEPAS 1K surpasses most other portable PAs with the highest standard of sound quality and sound pressure, lightweight cabinet design, professional mixing functions, and simple operability. By adopting a concert-quality mixer and speaker, YAMAHA

has defined a new standard for portable PA by utilizing the company's unique experience and know-how developed over decades of producing innovative, professional audio equipment from every stage of music engineering

and production.

The STAGEPAS 1K comes equipped with sound adjustment features, including 1-knob EQ to perform multiple EQ processes simultaneously, and MODE which allows to adjust optimized compression settings like "Speech" or "Music" to match various applications.

A 1000 W amplifier drives the array speaker with 10 small-diameter 1.5" units, as well as a class-leading 12" subwoofer. The 170° horizontal and 30° vertical coverage area delivers consistent performance over long distances, projecting uniform, high-quality sound from the front to the rear of the audience.

## NEXO P12/L15 Series

The P12 is an ultra-versatile multi-purpose loudspeaker, bringing ingenious technical innovation to a wide range of short-throw sound reinforcement applications. Dispersion characteristics can be changed in seconds through the addition of optional magnetic horn flanges, optimizing the P12 for a wide range of applications.



P12/L15 Series Loudspeaker

The P12 employs a purpose-designed 12-inch LF Neodymium driver and 3-inch diaphragm HF driver in a coaxial configuration. Specially designed in a footprint to match the P12, the L15 is the perfect partner sub in flown and pole-mount applications, and for use as a drum fill extending LF performance down to 40Hz in a range of FOH and stage monitoring applications. With a switch on the back of the cabinet, the P12 is easy to reconfigure from Passive to Active mode, where it achieves 140dB Peak.

Available in mobile and install versions, the curved, low profile P12 cabinet, housed in a curvilinear enclosure of custom birch and poplar plywood, can be deployed both vertically and horizontally (as a wedge monitor).

## Steinberg UR-C Series

Used worldwide by everyone from top producers and rising bands to popular YouTubers, the UR-C models takes audio recording to the next level.

Designed for musicians and producers, the entire line-up of UR-C audio interfaces provides USB Type-C (USB 3.1 Gen 1 SuperSpeed) connectivity to ensure universal compatibility with PCs and Mac computers, as well as iOS devices. Every model features 32-bit/192 kHz audio resolution, MIDI and delivers DSP power for using effects when

monitoring audio without latency. Moreover, each piece of equipment has something unique to offer: the two-channel UR22C and four-channel UR44C are bus-powered and portable; the UR816C provides 16 channels for professional audio; and the UR22C Recording Pack provides all the hardware and software required to create studio-quality recordings.

All models ship with the Cubase AI DAW, Basic FX Suite, and Cubasis LE iPad music production app, while the UR22C Recording Pack also adds the WaveLab LE audio editor. The ST-M01 condenser mic and ST-H01 studio monitor headphones are included in this bundle, too. The metal housing and high-quality components throughout make the UR-C device the perfect, roadworthy partner for every recording situation.

## Shure TwinPlex

Designed to stand up to the toughest conditions, TwinPlex provides natural audio at both high and low frequency when professional vocal performance

is necessary. The new patent pending capsule technology offers best-in-class sound in an easy-to-conceal package, ideal for quick costume changes or discreetly placed under wardrobe with no impact on sound quality.

Developed with input from leading audio professionals, TwinPlex supports the diverse needs of theater, broadcast, film and television, and corporate presentations to produce high-quality audio production with superior dependability.

TwinPlex consists of four lavaliers (TL45, TL46, TL47, TL48) and an ultra-light, fully-adjustable headset microphone (TH53) in multiple colors with extensive accessories and options. The unique dual-diaphragm omnidirectional design yields extraordinary off-axis consistency and industry-leading low self-noise creating lifelike vocal clarity and warmth.

TwinPlex Subminiature Lavaliers Microphone



The ultra-thin TwinPlex has Interchangeable sweat- and moisture-resistant frequency caps that prevent sweat-outs and paintable cable is available in 1.1 mm and 1.6 mm options. The paintable cables are immune to kinks and memory effects, resulting in never-before-seen flex performance due to an innovative spiral construction with redundant shielding.

## Martin MAC Allure Wash PC

The Martin MAC Allure Wash PC is a washlight variant within the Martin MAC Allure family, featuring a novel RGBW light engine with unique 7-segmented beam control. With instant color control and pixelated beam, the MAC Allure Wash PC enables dynamic diffused projection and mid-air effects, previously not



UR-C Series Audio Interface



**MAC Allure Wash PC**

possible.

This is also the first washlight to incorporate Martin's P3 control that works in addition to industry standard controls such as DMX, Art-Net and sACN. The MAC Allure Wash PC's LED drivers run the light engine at high and precise refresh rates securing that there is no flicker or banding on any broadcast application. This fixture also features a compact 17.6 kg (39 lbs.) design that fits into smaller sets and spaces, reducing truss loading constraint concerns and fits into three unit flight cases.

The MAC Allure Wash PC is designed to not overload the user with unnecessary parameters or features. This makes the MAC Allure Wash PC a simple-to-use, every day light that is ideal for concert/touring, TV, corporate, houses of worship, concert venues, nightclubs, and cruise ships.

## AKG K371

Whether a musician, engineer, podcaster, video editor, or content producer, AKG K371 Professional Studio Headphones strike the perfect balance between studio-quality sound, plush comfort, and a sleek, sturdy design that stands up to a mobile lifestyle.

K371s are precision-engineered to match AKG's Reference Response acoustic target to reproduce natural, balanced audio in extraordinary detail. They deliver deeper bass and higher highs than any other model, with a stunning frequency response of 5 Hz to 40 kHz.

Meticulously engineered to deliver every nuance with absolute authenticity, the K371s feature a pair of largest-in-class titanium-covered 50mm drivers. The K371's over-ear, closed-

back design provides superior isolation in noisy environments. Headphones are gorgeously styled with plush, slow-retention foam pads for long-wearing comfort, with adjustable calibrated headbands that deliver a perfect fit, every time. Earcups



**K371 Professional Studio Headphones**

swivel 90 degrees for single-ear monitoring, and their feather-light weight keeps ear fatigue at bay, even on the longest listening sessions.

## JBL Eon One Compact

The new EON ONE Compact is an ultra-portable, all-in-one PA system with Bluetooth that delivers high-quality sound anywhere, for hours on end. Its 8-inch speaker produces the loudest output and best bass



**EON ONE Compact PA System**

response in its class, and the swappable, rechargeable battery lasts up to 12 hours. Weighing less than 18 pounds with a built-in carrying handle, the EON ONE Compact is easy to take anywhere. A four-channel mixer with onboard Lexicon effects and dbx EQ provides ultimate flexibility. Bluetooth connectivity makes it easy to stream music and link multiple speakers, and a handy mobile app for Android and iOS provides intuitive control.

The 8-inch woofer and 1-inch tweeter produce up to 112 dB of output from 37.5 Hz to 20 kHz, providing loud, uncompromising sound with extended low-end. A variety of inputs, mixing features and effects give the EON ONE Compact a high degree of flexibility for different applications. Two combination XLR/TRS inputs with professional-grade preamps and +48V phantom power provide crystal-clear sound for microphones, while a dedicated quarter-inch high-impedance input is perfect for guitars, bass and acoustic instruments with pickups.

## Roland DJ-707M

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

The DJ-707M features seven



**DJ-707M DJ Controller**

inputs, including front mounted auxiliary inputs to easily connect instruments from guest musicians or two additional microphones. Built with the DNA of a professional audio console, the DJ-707M features two studio-quality XLR microphone inputs. Dual USB inputs allow up to two instances of Serato to be run on separate computers, creating seamless transitions between DJs or backup rigs. Its USB input can also be used to connect an iOS device for music playback.

The DJ-707M also contains launchable preset rhythms for adding punch to classic tracks, crafting transitions, or creating accompaniment for instrumentalists. Other on-board OSC sound effects include sweepers and synth stabs.

## MX 3 Channel Wireless Silent Disco Transmitter

The MX 3 Channel Wireless Silent Disco Transmitter is a UHF high power transmitter, professionally designed, with 5dBi Omni Antenna, a 3.7V/420mA built-in lithium battery, with sustainability up to 4 hours. The operation distance is in the range of 200, 300, and 500 meters. The small and robust transmitter provides a voltage of 9VDC and has an extra antenna for extended quality. The



**MX 3 Channel Wireless Silent Disco Transmitter**



audience can select the transmitter channel they want to stream via the 3-channel headphones, thus giving each audience member their personal music selection.

### Dynatech DLA-212A

The medium to large sized line array speakers are used in applications including sound



**DLA 212A Active Line Array**

reinforcement for houses of Worship, Events, Indoor Stadiums, Theme Parks, Multi-Functional Auditoriums, Schools, Rehearsal halls, Clubs, Ballrooms and Transit Terminals etc. Excellent for live, rental, and portable sound reinforcement applications the DLA 212A Active Line Array loudspeakers deliver extraordinary performance where high speech intelligibility and natural sounding music is required at unmatched value.

With everything made Active, you can stop worrying about amplification, equalization, and protection. Featuring FIR brick wall filters, Pascal amplification from Denmark with the most precise compressors and limiters to protect your drivers.

### Mackie DRM Series

(DRM-18S subwoofer, DRM-12A arrayable loudspeaker)

DRM Series Powered Loudspeakers feature class-leading power, Advanced Impulse DSP for unmatched clarity, and the DRM Control Dashboard with full-color display for easy control.

Combining extensive tuning, premium components, and cutting-edge DSP – DRM Series Loudspeakers is perfect for mobile DJs, bands, clubs, houses of worship, production/ install, and more.

The DRM-12A Arrayable loudspeaker and DRM-18S Professional Powered Subwoofer delivers class-leading power via an ultra-efficient Class-D amplifier with next-gen protection and Power Factor Correction technology for peak

performance.

A custom high-excursion 12" woofer and three 1" compression drivers housed in the texture coated 15mm plywood cabinet designed for consistent performance in the most demanding performance. The DRM-12A loudspeaker and the DRM-18S subwoofer are the perfect tool for a standard PA setup, whether installed

in a club, house of worship, gymnasium, rental systems and more. The integrated rigging makes it perfect for use in large permanent installs, tours, and festivals where the system is flown or as a high-output



**DRM Series  
Powered  
Loudspeakers**

pole-mounted portable PA.

Designed to match the rest of the DRM series, the DRM-18S is stackable, flyable, and is equipped with a pole cup for maximum versatility.

### JTS R-4 System

The system is designed with JTS newest generation wireless technology. To cope with the squeezed radio spectrum the system provides more



**Power Amplifiers  
from 75w to 3000w**



**CA Power Amplifiers**

**NEW**



**FA Series Hi-Density  
Power Amplifiers**

**NEW**



**mx-a-1502  
DSP Mixer Amplifiers**

**NEW**



**NX Multi-Mode**



**DSP Matrix System &  
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#### R-4 System

compatible channels within limited bandwidth. The R-4 is a 4 channel system in a 19" one U case. Antenna outputs and AC power supply are designed to be cascaded. It provides great convenience to installation.

JTS patented REMOSET feature sends all microphone data by pushing one button. Moreover all 4 microphones can receive correspondent data at the same time after one pushing. As always JTS provides detailed and full adjustment for best audio and radio performance.

The system is best suited for broadcast and live performances.

### IK Multimedia iLoud MTM

IK's iLoud Micro Monitors are High-resolution compact studio monitors that have changed everything about the sound, accuracy and convenience of reference monitors in today's modern studio. iLoud MTM uses dvanced DSP techniques to provide total control over the speakers' performance, delivering results simply not obtainable with traditional analog designs. Highs are neutral and defined, mids are clear and balanced, and lows are as balanced as ever.



Multimedia iLoud MTM

It's loud, with 100W RMS total power per speaker and 103dB SPL maximum sound pressure. iLoud MTM offers even bass response down to 40Hz ideal for modern music styles. It debuts IK's new patent-pending Physical Response Linearization (PRL) system that uses a precise model of the enclosure's design, construction and materials, combined with electro-mechanical measurements of the real units, to correct the system's performance in real time.

Its design offers exceptional sound dispersion, enhancing the transparency and neutrality of what is heard. It offers built-in acoustic self-calibration via the included ARC reference microphone, to automatically adjust the frequency response. iLoud MTM includes a tilting mount that not only helps isolate it, but also angles from 0° to 20° for correct positioning in a wide range of setups.

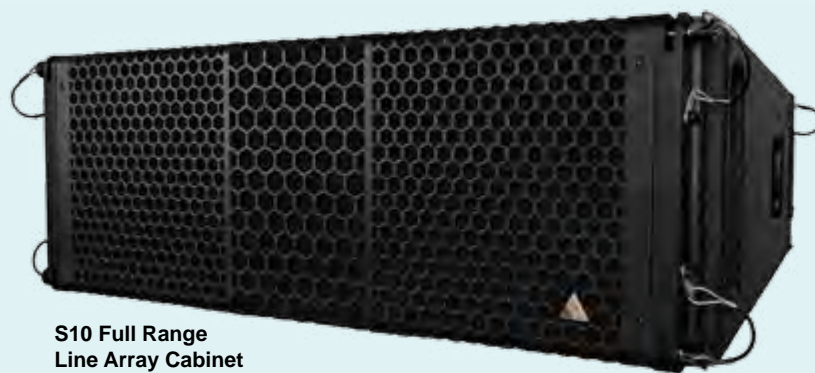
### Studiomaster Orb Series

Studiomaster Professional's Orb series is a range of premium mixing consoles that integrate state-of-the-art One Knob compression, DSP-based dual multi-EFX processors, USB MP3 media player and recorder, Bluetooth and a host of inputs, outputs, and routing options.

The series has two models currently - the Orb 1822 with 18 mic / 20 line inputs and the Orb 1222 with 12 mic / 14 line inputs. The mixers feature a simple One Knob Compressor on select inputs



Orb Series mixer



S10 Full Range Line Array Cabinet

that lets users harness the benefits of analogue audio compression without the hassle of setting complex parameters.

The Orb series mixers also integrate a warm and rich dual multi-EFX processor with 24 DSP-based presets and editable parameters. The integration of media player and recorder with Bluetooth helps users quickly record their sessions on flash-based storage devices (pen drives) and even playback audio files.

The Orb series mixers sport an ergonomically-angled design for better visibility and rear panel input/output connectivity for a clutter-free mixing environment. Other features include 5 Aux buses with stereo returns, 2 subgroups with outputs, globally-switched +48V Phantom power supply, 7-band stereo GEQ and much more.

### Adamson S10

The S10 is a 2-way, full range line array cabinet containing 2x ND10-LM Kevlar Neodymium drivers (2x 16 Ω) and an NH4TA2 1.5" exit compression driver (8 Ω). The critically optimized sound chamber produces a slightly curved wavefront with a nominal dispersion pattern of 110° x 10° (H x V). The chamber's efficiency allows for increased vertical dispersion without sacrificing high frequency presence in the far field. Patent-pending Controlled Summation Technology further eliminates low-mid lobing normally associated with

2-way line source systems.

The cabinet construction uses marine grade birch plywood as well as aircraft grade steel and aluminum, and is equipped with two Speakon NL8 connectors. The rigging system incorporates the best aspects of previous advancements in our new SlideLock rigging technology.

The S10 is suited to a wide variety of applications. Its full range capability (60 Hz) at reasonable levels qualifies for applications where sub is not required. Increased vertical coverage (10°) enables the S10 to cover theaters, arenas, and stadiums with reasonable speaker quantity. Other target applications include dance clubs, medium size festivals, corporate events and contemporary churches.

### Claypaky Xtylos

The Xtylos is a compact beam moving light with unique optical and chromatic characteristics, making use of a tailor-made laser source. This laser source, lasting for 10,000 hours, is enclosed in a reliable, safe, and fully sealed module and it is the powerful engine of an incredible array of colors.

The beam aperture can be steered in the range 1°-7° and it can be decreased further to 0.5°. The Xtylos uses laser technology with RGB additive color mixing. In contrast to



Xtylos compact beam moving light



the subtractive mixing used with discharge lamps, colored light beams are as bright as a white light beam. The range of effects features two gobo wheels - with 7 rotating gobos and 12 fixed gobos (including 7 beam diameter reducers) - a wheel with 3 prisms, and a sixteen facet prism on a dedicated channel which can be overlapped with the prism wheel.

The Xtylos is the first moving head light with a laser light source and an ideal tool for all rental companies, for use at major events, and at any show, which aims to stand out with colorful beams and never-seen-before effects. It is also perfect for permanent installations in theme parks and TV applications.

## MX Wireless Silent Headphone

The Silent Headphones are the perfect solution for continuing the mid night fun and parties in the disco without breaking the law. One of the most popular uses of the headphones is for discos and parties. It consists of 2 machines i.e. a wireless stereo headphone and a small music broadcaster. Silent party headphones are perfectly comfortable and tight enough to make a barrier



Wireless Silent Headphone

between outside sound and the music played on the 3 Channel Silent Disco Headphones.

The MX Wireless Silent Headphones feature a built-in 600MAH lithium battery that can last up to 8 hours, a frequency response of 20-20000Hz, individual volume and channel control buttons and LED channel indicator lights. Silent MX headphones support a 433 MHz / 863 MHz / 915 Mhz ISM Band. Its double PLL system ensures ultimate frequency stability for uninterrupted music enjoyment. The headphones however, are not waterproof and do not support any memory card.

## Sonodyne SMX 1116

The SMX Series of mixers are compact live sound mixing consoles. Focus is on providing the engineer with a variety of features like additional mic inputs, multiple aux, global and local EQs, and subgroups. Input connectivity on BT and USB are available with record output to onboard USB. In a slim, compact form-factor, the SMX is an excellent console for small events where sound quality is paramount.



SMX 1116 Professional Mixer

SMX 1116 is a compact mixing console with 12 mic, 2 stereo inputs, frequency response of 10Hz to 90kHz. Other features of SMX 1116 include 9 band stereo, USB Playback, 60mm faders, per channel - mute, solo, low-cut and bus assign, and main and sub switches.

With combo inputs for guitars, basses and other instruments,

management system highly improved in terms of DSP processes and an astonishing FIR filtering tool set. Designed for maximum versatility, it provides all the processing and control necessary for both live and fixed installation use. Proving for any crossover configuration, it offers 2 analog inputs, 6 analog outputs and 1 AES/EBU input, managed by 2 powerful MARANI DSP Engines, for a full 96 kHz processing, in addition to 24 Bit AD/DA Converters.

The Marani LPP-260A features a 13 band parametric equalization per

input channel, a 7 band parametric equalization per output channel, an adjustable delay time of up to 480 ms for every input channel and 340 ms for each output channel. It also features a front panel USB connector for direct PC communications and RS485/TCP-IP connection for system setup, monitoring, and control via fully manageable remote PC software.

## Trace Elliot ELF

The ELF bass amplifier weighs 1.6 pounds and is small enough to fit in the pocket. The ELF's remarkable technology and size make it a portable, gig-worthy amplifier. The ELF produces a fan-cooled 200 continuous watts RMS at 4 ohms.



Elliot ELF Bass Amplifier

The switch mode power supply has thermal as well as over-current protection, and the gain knob features a bicolor LED that turns red when the preamp compressor engages. In terms of sonic quality, the ELF has a clean signal path with

simple controls, making it easy to achieve a professional bass tone. The 3-band rotary EQ has three proprietary Trace Elliot filters and studio-quality XLR outputs, with a ground lift switch, ensure the tone the player has on stage is the same tone in the PA.

Trace Elliot series has two cabinet options in the form of Trace Elliot 1x10 Cab and Trace Elliot 2x8 Cab.

The Trace Elliot ELF 1x10 and Trace Elliot ELF 2x8 cabinet is the perfect companion to the 200W rms Trace Elliot ELF amplifier. The 1x10 cab uses a premium Eminence driver and the 2x8 cab features two 8" Faital drivers and includes dual parallel inputs that make it easy to use two cabinets with the ELF. A recessed cradle on top fits the ELF perfectly and keeps the amplifier in place. The durable painted cab also features an inset top handle that comes in handy when routing the speaker cables.

## Superlux L401U

The Superlux L401U USB microphone is equipped with a 1", 3µm ultra-thin gold-plated diaphragm capsule to ensure studio-grade recording quality in any stage, home or studio environment.

The plug-and-play design of the L401U large diaphragm USB microphone ensures compatibility with both Windows and Mac operating systems and supports the majority of available DAW software. The high-quality A to D converter and USB output of the Superlux L401U makes accurate recording effortless. The cardioid pickup pattern of L401U is very suitable for vocal

32bit 42kHz effects engine featuring Reverb, Delay, Chorus and Modulation, the console is a robust polymer lightweight construction for tour-grade build quality and reliability

## Marani LPP-260A

The LPP-260A is a high end 2-IN/6-OUT digital speaker



LPP-260A Linear Phase Loudspeaker Processor



**L401U USB microphone**

allows you to adjust the monitoring level between mic input and audio output easily. The built-in headphone amplifier ensures extremely clear and rich playback details even under high volume. The Superlux L401U large diaphragm microphone is a quality tool that is the right choice for any professional stage, home or studio application.

## MX HPRO 20000

MX HPRO series adopts Triple Three Step Class H+ circuitry to eliminate the Class H cross switching distortion. With carefully selected components like toroidal transformers, audiophile Wima capacitors, Toshiba transistors, Carling switch circuit breakers, Neutrik connectors and Belden wires, etc. PRO series has clear and clean sound and high damping factor. This makes PRO series suitable for any kind of application, from high power loudspeakers to critical monitoring where very high requirements are mandatory.

It can be widely used in fixed installation and touring performance such as bar, nightclub, multi-functional hall, museum, religious venue, commerce site, lecture hall, wedding ceremony, etc. All PRO amplifiers have less than 0.05%THD at 16KHz and the sound is clean



**HPRO 20000 Professional Power Amplifier**

and natural. It has a comprehensive protection system, which includes optimized limiter circuit.

The smart overheat management of PRO series adopts unique circuitry to monitor the amplifier's temperature in real time. When the safe operation of the amplifier is compromised, the output power is reduced but not shut down, which ensures the system can work stably in high temperature environment.

## P.Audio G15-400MB

The P. Audio G15-400MB is a high performance wide bandwidth transducer with an updated design featuring P. Audio's new technologies and performance upgrades. The 15 inch (381mm) diameter piston produces extremely high sound pressure levels at both low and mid band frequencies and is ideal for high level response in both live sound and recorded music venues. The transducer uses high energy ferrite magnetics to achieve a very high acoustic output to weight ratio. The G15-400MB has been optimized for use in two way or three way sound reinforcement systems and has an operating range of 40Hz to 3000Hz.

The G15-400MB features a large 3 inch (75.7mm) diameter voice coil that



**G15-400MB Transducer**

provides 400 watts AES of continuous power handling and a full 1600 watts of peak rated power handling when sufficient amplifier headroom is available. The G15-400MB utilizes P. Audio's Auto Balanced Cooling (ABC) technology to not only improve transducer power handling and

reliability but to also increase power compression performance by carefully balancing and directing airflow to critical areas.

## RCF M20X

M20X is a fully recallable mixer, with 16 remote controlled preamps and 11



**M 20X Digital Mixer**

motorized faders. Despite its dimensions, the M 20X packs a whole suite of capabilities, such as high-profile preamplifiers, top of class DSP with studio-quality processing, WiFi remote control and a comprehensive set of multi-track recording and playback functions. The mixer offers a total of 20 analog inputs and 14 output channels, between the balanced analog outputs and the AES/EBU digital output.

Below the 5-inch touchscreen, 5 encoders are assigned to various parameters as a function of the current screen. A set of motorized faders allows access to all inputs and output levels, without increasing the overall footprint of the unit. In addition, a dedicated FADER VIEW button shows all inputs and outputs at once, including the assigned names, and allows an immediate jump to the desired channel strip section.

Multitrack audio can be handled via the onboard USB 2.0 Digital Audio Interface, for a maximum of 24 x 24 channels, and through the internal SD-card multi-track player/recorder.

## Volite Galaxy Thunder 54x3 Par

The Volite Galaxy Thunder 54X3 watt high performance LED Pars

features 54X3W LED units with an input voltage of AC 100-240 V, 50/60Hz. The Galaxy Thunder LED RGBW offers great performance with a quiet moving head.

The Galaxy Thunder has an aluminum body, digital/LCD display, and 8 DMX channels. 180w power with a 100,000 hours working, the Galaxy Thunder comes with a control mode of DMX512, Master/Slave, and Sound control. The lamp has a

luminous flux of 3000lm and efficiency of 100lm/w and strobe of 0-2 times/second.



**Galaxy Thunder 54x3 Par**

## Sennheiser XS Wireless

XS Wireless Digital is a plug & play, entry-level wireless series operating in the 2.4 GHz spectrum for license-free worldwide use. The new series consists of lightweight, compact plug-on transmitters and receivers, offering either XLR, jack (6.3mm, 1/4") or mini jack (3.5mm, 1/8") connections. It features a single-button interface and status indicator to handle power and linking tasks and up to 5 systems can be operated simultaneously.

XSW-D devices also feature USB re-chargeable lithium-ion batteries that





**XS Wireless Digital plug & play**

provide up to 5 hours of runtime. XS Wireless Digital can be used for traditional MI and A4V applications such as band practices, club dates, vlogging, or freelance video shoots. It offers solutions for DSLRs and mirrorless cameras with 3.5mm jack inputs as well as cameras with XLR audio inputs. It is also designed for use with music instruments as a sort of wireless audio cable.

## Studiomaster XPA Series

Overheating is one of the most common reasons for amplifier failure in a tropical country like India. It has a detrimental effect on the electronic components and parts of amplifiers.

To counter this issue, Studioma-ster Professional has developed an innovative solution for its newly-launched XPA series amplifiers. Thermal Management System (TMS) is

XPA 40 and XPA 60. The XPA 40 delivers 2 x 1400W (True RMS) @ 4Ω and the XPA 60 delivers 2 x 2000W (True RMS) @ 4Ω. At the heart of each amplifier is a high-current toroidal transformer with high-endurance cores that deliver greater transient response, low-noise, and stability even at 2 Ohms load. Other features include built-in crossover, bass boost (EQ processing), balanced XLR and 1/4" stereo jack inputs, Speakon and binding post outputs, limiter switch for speaker protection and much more.

## City Theatrical DMXcat

City Theatrical's DMXcat system is designed for use by the lighting professionals



**XPA Series Amplifiers**

the brand's proprietary temperature-controlled gain variation technology. In the XPA series amplifiers, the temperature is never allowed to exceed the permissible limit. The TMS technology intuitively "jumps in" to adjust amplifier parameters and keep the temperature limit-bound. Thanks to this, audio quality is never compromised and the amplifiers keep running smooth and cool.

Currently, the lineup features two models, the

who are involved with the planning, installation, operation, or maintenance of theatrical and studio lighting equipment. The system consists of a small hardware interface device and a suite of mobile applications. DMXcat's new Multi Fixture feature includes a patch that can be implemented to group and control lighting fixtures together to



**DMXcat System Multi Fixture**



**Made in Germany**



**LUCAS 2K15**



**ELEMENTS**



**CONTOUR X**



**COSMO**



**LINEAR 7**



**LINEAR 5**



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save time and improve workflows. This patch also allows users to assign numbers to channels or fixtures, which can be useful in creating a consistent and simplified numbering system between creative and technical teams of a given production or installation project. DMXcat users can use the patch to save, name, and re-load setups across various rigs, for use on future projects.

DMXcat hardware is built into every Multiverse Transmitter. This means you can now access, configure, and control your Multiverse Transmitter with the free DMXcat app. DMXcat technology means that you no longer have to touch or even be close to your Multiverse Transmitter to make changes to it.

## Denon DJ Prime 4

Denon DJ Prime 4 is a 4-Deck Standalone DJ system with 10-inch multi-touch/gesture display, dual-zone output, pro-mixer section, powerful performance pads, dual-mic channels and a 2.5 inch built-in SATA data bay. The Prime 4 has a dedicated XLR zone output that provides music to a separate room or location, 6-inch jog wheels with HD central display, 4 assignable input channels for external media sources, and 2 dedicated XLR inputs for microphones with individual control.

Prime 4's eight performance pads bring the most advanced and easy to use creative expressions to hot-cue juggle, remix tracks, roll, and slice up tracks. The system plays

### DJ Prime 4 4-Deck Standalone DJ Console



uncompressed audio formats and DJs can directly import Rekordbox playlists.

Prime 4 has 14 on-board, pro-club DJ Effects, with three quick access parameter adjustments, dual-function control for Sweep FX and Filter, across all 4 channels. In addition, it has impactful visual elements with lighting and video control via Denon DJ's StagelinQ connectivity and Denon DJ partners Soundswitch, Timecode and Resolume applications. The Prime 4 latest version brings full

integration and control of Serato DJ Pro using computer mode.

## L'Acoustics A Series

The new A15 and A10 systems deliver renowned L-Acoustics concert performance and reliability for audiences from 50 to 5,000. Mounted on a pole, stacked on the



A Series Loudspeaker System

companion KS21, or flown in vertical or horizontal arrays, the new A Series family combines plug-and-play ease and international market acceptance. This versatile solution, with adjustable directivity, scales with the needs of your company and is your gateway to the L-Acoustics rental network.

A10 and A15 are designed for production applications up to 35

m and 45m respectively. It includes A10 Focus and A10 Wide and A15 Focus and A15 Wide passive 10" and 15" systems with distinct coverage patterns. A10 and A15 can adapt to virtually any audience geometry with two enclosure coverage options, Panflex (A10) and L-Fins (A15) for user adjustable waveguide directivity, and a range of accessories for vertical or horizontal deployment. On its own, A10 provides extended low frequency capability, adapted for vocal reinforcement and live concerts.

A15 deployment requires a single preset that is optimized to provide plug-and-play performance for both A15 models. A15 provides the low frequency contour of a large concert system.

## XMLite LLP400

Made using Japanese NSL400 light source, the LLP400 produces a voltage of 600W with a power of 100-240V. 50/60Hz. It provides lamp guarantee of 500 hours or 18 months. The display is a 2.8" screen and can reverse 180 degrees.

The LLP400 features high speed XY axis, magnetic code disk location,



LLP400-400W-Beam-moving-head-light

and folding hook. The color wheel features 14 color GOBO plus white and the static GOBO wheel has 11 GOBO plus 3 Color GOBO plus white. The Prism has 11 kinds of prism, two rotation prism wheels, each prism wheel can be combined, and speed can be adjusted. The beam angle is between 4 degrees to 6 degrees, and dimming from 0-100%. The moving head light can be panned at 540 degrees and tilted at 270degrees.

## Neumann NDH 20

The Neumann NDH 20 is a closed-back headphone combining isolation with balanced sound image and outstanding resolution. The NDH 20 is ideally suited to monitoring and mixing tasks, even in loud and noisy environments. Circumaural memory foam ear pads offer high long-term comfort. The headband is made of flexible spring steel while the ear cup covers are machined from lightweight aluminum. For easy transportation, the NDH 20 is foldable.

The NDH 20 is suited to all applications that require high sound isolation such as monitoring for



musicians and engineers in the tracking room as well as FOH work. It is also an excellent choice for critical listening, free from disturbance from the outside world and, vice versa, without causing disturbance to people nearby due to leakage. It features extended frequency response ranging from 5 Hz to 30 kHz making it particularly helpful to check the upper and lower extremes of the audio band. The NDH 20's newly designed 38 mm drivers with high-gauss neodymium magnets ensure high sensitivity and low distortion.

## Beta Three BT1500

BT1500 is an active two-way 9-unit inverting full-range speaker, specially designed for small touring performance.

BT1500 is a perfect sound reinforcement solution that can be used quickly and easy setup, Installation and inter-connecting can be done with one minute, easily carry with bogs, no need extra power amplifier ,mixer or any other speakers, one set BT1500 with bluetooth, connecting with laptop, can be used for the applications for Conference, small touring performance and small party.

It is a high power, high SPL wooden active speaker system with one 15" woofer six 2.75" mid-range, two 1" dome tweeter and Bi-amp module of CLASS D, adjustable angle support rod, you can enjoy the most realistic and beautiful sound through whatever stand or sit.





## Electro-Voice RE520

The RE520 is a premium-grade, high-performance, condenser

supercardioid vocal microphone. Designed to reveal the exceptional detail and vivid clarity synonymous with condenser elements, it delivers the lyrical finesse required for expressive vocal performances, while controlling off-axis sound from near-by sources.

The supercardioid pattern provides excellent acoustic isolation. Maximum feedback rejection occurs when a stage monitor position is at either 225° or 125° offaxis to the element. This pattern also allows for a cleaner mix due to its rejection of off-axis sound. The multi-stage pop filter

consists of two layers of dense foam separated by air, which attenuates wind velocity caused by breath and windblasts.

The high-pass filter has two positions. The flat position delivers the full frequency band pass of the capsule. The high-pass position attenuates frequencies below 150 Hz. The internal shock mount isolates the microphone element from vibration and guards against handling noise.

## Sennheiser IE PRO Series

Sennheiser IE PRO series are professional dynamic in-ear monitors featuring the IE 40 Pro, IE 400 Pro, and the IE 500 Pro.

The higher-end IE 400 PRO and IE 500 PRO generate their sound by

virtue of Sennheisers TrueResponse technology from drivers measuring only 7mm. The entry-level IE 40 PRO system utilizes 10mm drivers. The optimized design now uses the full air volume and every square millimeter for optimized sound conduction – and leaves lots of space for a finally comfortable fit. Their compact construction ensures that it sits securely and remains wearable, especially during long sessions. Multi-way drivers move their diaphragm via a balanced armature in a magnetic field. Because new broadband transducers are lighter, softer, and more flexible, even at maximum levels, the sound is stable,

follows every change in dynamics clearly, and controlled. The sound stage stays free from distortion and becomes extremely transparent.

The in-ears come with silicone ear adapters in various sizes and special ear tips made from memory foam, which expand to perfectly fit the ear canal. This results in a secure and comfortable fit that comes very close to custom-made ear moulds.

## Sonodyne SPA 115P

The SPA is the newest range of portable PA speakers by Sonodyne. It comprises unique models that are ideal not only for installation but also for live performances. All models are two way designs employing high performance transducers. The ABS moulded enclosure is rigid, portable, and allows for ease of installation. The sound quality is excellent allowing the speakers to be also used as stage monitors. Well priced, reliable, and great sounding, the SPA is a great new solution for professional applications where sound quality matters.

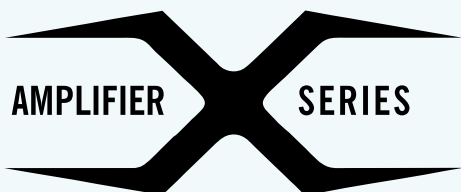
SPA 115P is a two-way active speaker with 15" LF and horn loaded compression driver and has



RE520 Condenser Supercardioid Vocal Microphone



IE PRO Series



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CLASS D TECHNOLOGY

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#### IE PRO Series Portable PA Speaker

a frequency range of 47Hz to 19kHz and a frequency response of 55Hz to 17kHz. The SPA 115P comes in a plastic enclosure and can be mounted as a pole mount and can be used as a floor monitor.

#### Solid State Logic L550

The Solid State Logic L550 is a digital mixing console designed help highly skilled operators deliver outstanding performances in the most demanding applications in Touring, Installation, Houses of Worship, and Theatre. The deceptively simple ergonomic excellence of the combination of multi-touch screen control with assignable hardware controls, the use of color coding, the open architecture lets engineers configure the console layout to suit their own way of working.

The new L550 features a total of 288 processing paths, 36 Matrix outputs, and 48 VCAs, assignable to any of the 36 + 2 faders on the control surface. It can be augmented with USB Remote Fader Tiles or be connected to remotely from another console, a laptop running SOLSA remote control software or tablet running the TaCo control app for a truly flexible and expandable work surface. The L550 is powered by Tempest, a new fourth generation digital audio platform developed



L550 Digital Mixing Console

specifically to meet the demanding requirements of the live environment.

#### Audio-Technica ATM350GL

Designed for use with guitars, the ATM350GL UniMount mounting system gives you the tools to perform with confidence. The system features the ATM350a cardioid condenser microphone, which is a low-profile mic, designed for minimum visibility, a high-SPL mic that provides a clear, well-balanced response from any instrument. When teamed with the included AT8491G guitar mount and strong, flexible AT8490L 9" gooseneck, the mic can be securely fastened to a guitar or other stringed instrument with a body depth of 90-135 mm.

The microphone's cardioid polar



ATM350GL UniMount Mounting System

pattern isolates the instrument by reducing side and rear pickup, and the switchable 80 Hz high-pass filter on the in-line power module helps control undesired low-frequency noise. The system also includes an AT8468 violin mount with hook-and-loop fastener and a protective carrying case.

#### PreSonus StudioLive 64S

The StudioLive 64S is a 64-channel mixer that brings the power of a



large format console to small format digital mixing. Powered by the new quad-core PreSonus FLEX DSP Engine, the StudioLive 64S digital mixer is equipped with 76 mixing channels, 43 mix buses, and 526 simultaneous processors—including 8 stereo reverberation systems, and Fat Channel plug-in models on every input channel and

mix bus. With 128 (64X64) channels of USB recording, 128 channels of AVB I/O, flexible routing options, and the studio-grade audio quality that made StudioLive mixers famous, the StudioLive 64S delivers a truly exceptional mixing experience that's in a class of its own.

Its 32 FlexMixes can be individually configured to function as an aux bus, a subgroup, or a matrix mix. Also provided are 24 DCAs to flexibly control groups of channels. The StudioLive 64S includes the ten Classic Fat Channel plug-in models pre-installed. The 64-channel StudioLive 64S is the most powerful and flexible digital console available for installed sound, touring, and recording.

#### AKG Lyra

The AKG Lyra delivers high audio quality in its class, with acoustically transparent, 4K-compatible, Ultra HD-grade 24-bit/192kHz audio resolution.

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. 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



Lyra Ultra HD Multimode USB Mic

built-in sound diffuser and AKG's proprietary Internal Element Overload Prevention automatically reduces noise, eliminates pops, and improves signal levels.

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.

Lyra 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 or shooting a YouTube video, using Lyra is as easy as plugging in a USB cable and pressing go-live or record.



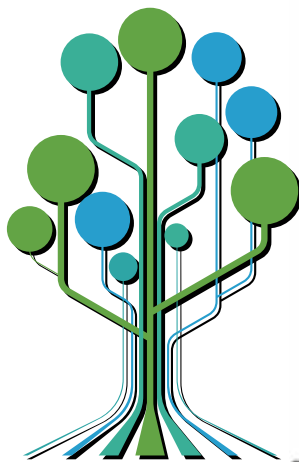


# L SERIES

## Compact Portable Active Column System

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### L65+L65A Column System



## BrainCore™

BrainCore™ is an innovative core application technology researched and developed by Audiocenter, Devoted to Audiocenter active DSP-controlled loudspeaker and supreme performance and high reliability.

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### L65+L65S Column System



### L83+L83S Column System



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# Iconic Mahakavi Kalidas Kalamandir Auditorium Upgrades to Bose Professional RoomMatch System



The newly overhauled system at the auditorium consists of L/R clusters comprising RM12040 modules with RM9020 modules deployed as the FOH solution to reproduce crystal clear high and mid-range fidelity, while multiple units of the RMS215 subwoofers provide crucial low-frequency impact

**"T**he addition of the **Bose Professional RoomMatch system** has dramatically improved the overall sound experience here. It has always been our mission to provide the city with a space that allows audiences the chance to immerse themselves into the on-stage performance, and now we're finally able to meet this mission, with the installation of the new **Bose RoomMatch PA system**. The system sounds







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

increased intelligibility that capably reinforces everything from intense theatrical performances to immersive musical delights.

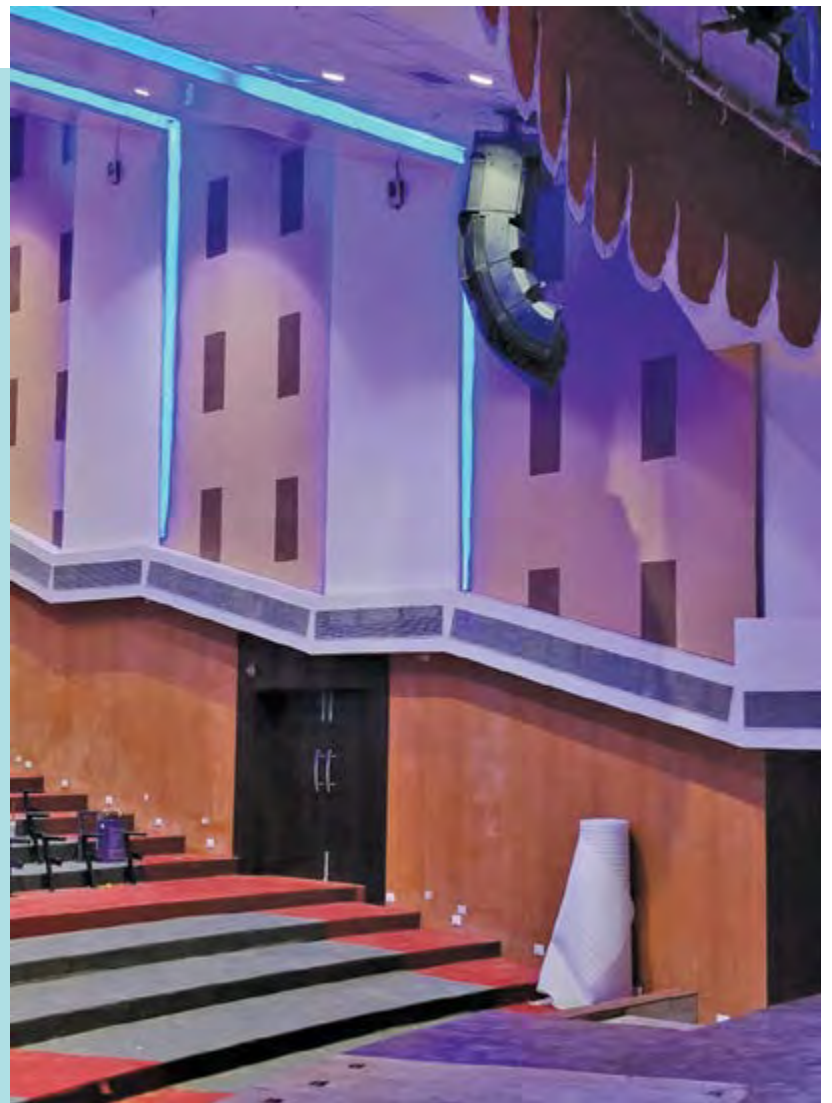
**Vibhor Khanna** – Country Manager SAARC, Bose Professional – is pleased that the Mahakavi Kalidas Kalamandir chose Bose Professional as their preferred sound partner, as he comments “Associating with an iconic establishment like the Mahakavi Kalidas

immaculate, just as the first time we heard it, and now we’re treated to the highest possible quality of sound on a daily basis. We couldn’t be more pleased with our decision to partner with Bose!” ....words from a high-ranking official at Nashik’s iconic Mahakavi Kalidas Kalamandir sum the drastic improvement in venue’s soundscape following the inclusion of their new Bose Professional RoomMatch System.

An undertaking of the Nashik Municipal Corporation, the Mahakavi Kalidas Kalamandir has proudly stood as an iconic structure in the calm and peaceful city of Nashik for over four decades. Often regarded as one of the few genuine venues for audiences to enjoy authentic Marathi theatre and dramas, the auditorium has served as a beacon of excellence when it comes to stage performances; barring the fact that it sported a technological infrastructure that hadn’t been updated for decades, until recently. With an extensive refurbishment fulfilled by the management, the venue now stands as a completely overhauled acoustically designed theatre with a seating capacity of over 1250 heads in an exclusive circular tiered type seating arrangement that affords it the look and feel of a majestic concert hall. The overhaul also involved a comprehensive update of the old sound system; which was swiftly upgraded to an all new and comprehensive RoomMatch system from Bose Professional System which now graces the venue with enhanced sound performance and

Kalamandir is a matter of great pride for us; and to have positive feedback from the management about the performance of their new Bose RoomMatch system is quite the compliment. Bose has always stood at the fore in creating innovative audio products and technologies that empower users with consistent world-class sound experience; and our suite of RoomMatch products is testimony to this fact. The Mahakavi Kalidas Kalamandir’s decision to outfit the auditorium with a top-of-the-line Bose RoomMatch system demonstrates a commendable dedication to providing their audience with the most immersive performance environment; and it’s heartening to know how everyone’s enjoying the sound experience.”

The newly overhauled system at the auditorium consists of L/R clusters comprising **RM12040** modules with **RM9020** modules deployed as the FOH solution to reproduce crystal clear high and mid-range fidelity, while multiple units of the RMS215 subwoofers provide crucial low-frequency impact. Products from Bose Professional’s acclaimed **RoomMatch Utility series** have also been installed, with multiple units of the **RMU 105** loudspeakers deployed as front fills and multiple units of the **RMU 206** loudspeakers deployed as fills covering the balcony area. The entire system is powered through Bose’s acclaimed **PowerMatch PM8500N** amplifiers, with processing sorted through the efficient **ControlSpace ESP-4120** engineered sound processor. Furthermore, the venue houses two dedicated green rooms along with a central control room, all of which have been outfitted with



**The Bose Professional system at the auditorium is designed and installed by AudioTechnik, Mumbai**

Bose Professional products with the DS16S loudspeakers powered through IZA 190HZ amplifiers rounding off the system.

Mumbai-based AV systems integrator **AudioTechnik** have designed and installed the Bose Professional system at Mahakavi Kalidas Kalamandir, and inputs from **Rajesh Patil** – director of AudioTechnik – reveals how he and his team went about commissioning the system, as he shares, “Our initial interactions with the client revealed how the venue struggled with good quality sound while using the former system; and the fact that they now desired a new system that would not only cover the room and increase speech intelligibility, but also be able to accommodate high-energy music. Following our interactions with the client and an extensive analysis of the venue, we realized that RoomMatch arrays were the right option as we needed a dual-hang line array product that let us control patterns vertically and horizontally to put the right coverage in the right areas of the room. The progressive

nature of the RoomMatch arrays allowed throw sound deep into the balcony without blowing the people out of their seats right in the front of the room; and the RMU speakers provided just the perfect fills solution in terms of maintaining the same high-quality Bose sonic signature. The system in its entirety provides a great front-to-back coverage ratio. Plus, using Modeler and Auditorion let us get to the point where we were assured about not only how the system sounds, but also the exact dispersion and coverage pattern. This afforded us the precision to derive great quality speech intelligibility and unparalleled music support. The system really does all of that, and more. And now after a good amount of time with the system being in use, the outcome has been all that the management had hoped for, and more. They are very impressed so far, and the crowd has responded very positively. For us, there could be no better compliment!”



# THE MAKING OF U2'S THE JOSHUA TREE TOUR, INDIA

*Stage Setup reigns supreme*

*U2's unparalleled live setup showed India what the future in stage production looks like. **PT** caught up with **Vinay Agrawal**, man on the spot responsible for executing the finest details and ensuring that things sailed smoothly in terms of production and **Kunal Khambhati**, Head - Live Events at BMS*

The concert marked several firsts for India with the biggest high-res LED screen of 200 feet x 45 feet ever used in a live touring show globally coming to the country

photo credit: Ross Stewart





photo credit: Ezra Acheson Mullen

Over 40,000 Indian fans who might have endured over a decade of false rumours about the legendary band U2 touring the country, were finally treated to a dream musical extravaganza by **BookMyShow (BMS)**, India's leading entertainment destination when they got the Irish Rock band to perform their first-ever concert in India on December 15th, 2019.

For fans, it was well worth the wait when U2 performed at the DY Patil Sports Stadium in Navi Mumbai. The 150-minute performance which was the finale of their legendary album, *The Joshua Tree Tour 2019* which commemorates 32 years of the band's 1987 album of the same name, enthralled fans and celebrities who had converged from all across the country and beyond.

**Kunal Khambhati**, Head – Live Events and IP, **BookMyShow** said, "U2's India concert was a massive success, a feat that was waiting to be done for several years. We are glad we had the opportunity to turn this dream into a reality for thousands of fans in the country. Live entertainment offerings such as music concerts and live acts especially at scale, offer the very real challenge of catering to high levels of consumer demand. At BookMyShow, we rely on our huge repository of data on customer preferences and keenness

to understand and solve for demand expectations for various genres of entertainment events that we bring across our markets. We have used this approach successfully for U2's finale of *The Joshua Tree Tour* in Mumbai as well with over 40,000 people attending the finale show. The concert marked several firsts for India with world's biggest high-res LED screen of 200 feet x 45 feet ever used in a live touring show globally coming to the country, the usage of Clair Brothers' sound – the world's most refined sound technology and a concert replete with production elements that had never been seen before."

A dream tour of this magnitude of course demanded excellence in all areas of live production. This is where **Vinay Agarwal's** role as an experienced live event production professional came into play. Having steered many high profile shows like *Ed Sheeran Divide Tour*, *AR Rahman Encore* and *One Republic* in the

past, Agarwal who was one of the core members of the team that helmed BookMyShow's production of *The Joshua Tree Tour*, was the man on the ground responsible for executing the finest details and ensuring that things sailed smoothly.

"A concert like U2 is a once-in-a-lifetime opportunity. **Jake Berry**, Production Manager for the U2 Tour is a one-man army by himself. Before the show was confirmed, he came to India for a venue recce and to ensure that the venue was capable of withstanding an event of this scale. He undertook a complete logistical survey to understand the best way to bring in the massive containers that for the show, how they could be loaded and unloaded in a timely manner amongst other details. Once Berry went back and gave a green signal, is when we at BookMyShow started checking on elements such as customs, working to get in the equipment, etc.," says Agarwal.

## Iconic Stage

"In terms of stage setup, every piece of equipment was flown in, from sound to the lights, stage, LED, generator, etc., from different parts of the world where the concerts had taken place. We had to make sure that the manpower that was asked for, reached the venue on time to help set this up. U2 owns the set which international staging, event and structures



Vinay Agarwal





Oscar-winning composer A.R. Rahman performs 'Ahimsa', a collaborative single with U2

photo credit: Ross Stewart

engineering company Stageco built for the band. These have been travelling with the band for the past 6 years."

The U2 crew, which includes around 90 people traveling with the band and another 120 crew members, can set up the stage in 10 hours and pull it down in four. Once it's packed up, the set travels to the next gig.

"They have three identical sets of the show with the exact brand and quantity of sound, light and LED, which they keep moving from one tour to another. The 40-foot containers that came to India, came

in via ship and three Russian army cargo airlines," says Agarwal.

For each of its shows since the 1990s, U2's arsenal has included big screens, bright lights and grand stages, so it did not come as a surprise that U2 brought a 200-foot x 45-foot, 8k resolution screen that towered above the stage. This has been the largest and sharpest screens in terms of resolution to ever be used in a concert tour in India.

For each of their shows, the band uses almost 89 tons of sound equipment that unleash loud resounding sound to every seat in the venue. "They got the Clair Brothers' sound systems, which is custom, designed for the show. This system has never been heard in India and this brand is not even available to rent in India," says Agarwal.

"The band just came for sound check on the day of the show. They have done 25 shows before coming to India with the same crew and equipment. Their audio engineer and mic handler has been working with the band's lead singer Bono for almost two

decades now, so they don't need to do any kind of rehearsal. On the day of the show, they rehearsed for about half an hour or so, on the one track they did with AR Rahman and it was the only track they rehearsed for."

only told us what they would get but ensuring the ground safety was our responsibility. We had to get all the engineering reports done to make sure that the venue could take that kind of load, without the ground sinking in and make sure that the venue and equipment remain undamaged. This was important since DY Patil is a cricket field at the end of the day, which has an irrigation system below the grounds. We had to ensure that the point load of the structures that they were bringing in was distributed evenly, so that pillars don't sink in. We involved engineers and ground staff from venue all the over the world to understand how the load could be distributed evenly."

## Setup

BookMyShow got the venue 15 days prior to the main event. The U2 crew comprised of dressing room manager, wardrobe manager, FOH professionals, riggers, etc. with one crew lead for every group of 10 people. Helping the BookMyShow team with manpower for the event was **SNL Pro** who provided

“2020 will see us continue strongly on our journey to make India a definitive landmark in the global live entertainment ecosystem”

KUNAL KHAMBHATI

## Meticulous Planning

Talking about the planning for the show, Agarwal says, "I just knew that U2 would come in with the equipment and one head for every department. So I went to Singapore where the U2 tour was taking place to see the set and the load-in and load-out processes, manpower requirement and to understand how the entire coordination of manpower and machinery was done.

Many factors had to be considered including the transport between the port and the city, machinery and manpower that would be needed for the show, etc. All their equipment required machinery due to its weight. The trusses are not made of aluminum but of steel. The band

specialized sound crew while **Star Dimensions** provided specialized light crew and **Natura** provided professional riggers and climbers. **Spectrum** provided specialized crew for LED setup. Colour-coded jackets were provided to each department in order to differentiate and identify local personnel from each department, be it sound, light, LED, rigging etc.

"It took us five days to first lay the Porta Deck. The next five days were used for erecting the steel truss. For the steel build, U2 had flown down 20 -25 people and we gave them the support of another 50 people. These trusses have the maximum rigging and load bearing capacity and are the safest in the



Kunal Khambhati, Head - Live Events & IP, BookMyShow





# Cutting Edge RF & Sonic Clarity

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world. However, as steel structures, these are 10 times heavier than aluminum trusses. We needed two days for the technical setup and three days to make sure that everything was going in place. The entire technical set up of sound, light and screens began only a day prior to the show. They started rigging on December 14th at 8:00 am and they were done by 6:00 pm. These timelines were possible because everything was automated and could be done with the press of a button and with forklifts. The same set would have normally taken us more than 5-6 days for setup."

Talking about minor hiccups Agarwal says, "The crew forgot to pack a key element required for the whole steel built, because of which work was held up for two days. They had to fly it down from Manila. As soon as the Manila show was over they flew it to Mumbai."

Commending the crew for their efficiency, he adds, "The moment that part landed in Mumbai, within two hours it was at the venue, and within 3 hours they completed the work which would have otherwise taken 12 hours."

## Overcoming Hurdles

"The biggest challenge we faced was that, in the part of the ground where the stage was to be assembled there was going to be a lot of movement of machinery. 200-tonne cranes and around 25-30 forklifts that were going to be used would definitely damage the ground. In order to protect the ground we zeroed in on a certain type of material called Porta Deck, which would automatically distribute the weight when put over the grass. The challenge however was to find this material. U2 suggested a company in Dubai that dealt with these kind of floorings but Dubai did not have enough stock and when we contacted Amsterdam, we realised that shipping would cost us the earth. After a lot of research, we found the closest substitute to this material in India, which again had to be brought in from different parts of the country.

This was the first time that these kinds of decks were used for a live concert or an event in India. These decks are generally only used on a construction site. Each sheet is approximately 300-400 kgs, which is why it can take that weight. We used almost 600 tiles of 4 mts x 2 mts."

## Onsite Management

Talking about onsite venue setup and planning, Agarwal says, "When you are doing a show overseas, the only thing you need to do is build the stage, rest is taken care of, by the venue. Right from security and

some of the fans in order to ease the crowd and inflow of people in and around the venue. "People were standing around the venue, one night prior to the show, just to get the opportunity to stand in the front row. The band is obviously used to this happening all over the world, so

“The trusses are not made of aluminum but of steel. We had to get all the engineering reports done to make sure that the venue could take that kind of load, without the ground sinking in and make sure that the venue and equipment remain undamaged.”

VINAY AGARWAL

parking to F&B counters, everything is handled by the venue. But in India, the organizer is responsible for all of these elements. In India, there is no venue that gives you any kind of infrastructure.

BookMyShow had a dedicated team handling parking. Since there is no parking at the venue, we had to acquire six different parking grounds all over Navi Mumbai to accommodate over 40,000 people who came in. Besides parking, we had to build bars, food stalls, green rooms and offices, put up Mojo barricades, add more toilets, ensure water supply, maintain venue cleanliness and enable Wi-Fi connectivity across the venue.

DY Patil is close to the main road, highway and the service road. We had to take police permissions to close the service road for a day and that's how we built all the mojo barricades.

They had only two lawns where we could enable F&B. Because we did not have enough space, and over 40,000 people would obviously require food, we planned for a lot of hawkers to roam around within the venue with food. We were not serving any alcohol except, in the VIP section of the building."

## Crowd Management

Following U2's cue, BookMyShow handed over coloured bands to

they gave us paper bands, numbered 1 to 500 to distribute to the people. The lucky ones who got these bands could come an hour before the gates opened and were the ones allowed to stand right in the front."

## The Experience:

Commenting on his experience on working for the Joshua Tree Tour, Agarwal says, "It was the best show that I have ever worked on in these past 13-14 years. The overall experience and the magnitude of the setup is overwhelming. I have never enabled such a big setup in my life. The clock-like precision that they work with, the management of time and skilled labour is amazing. Every minute is planned to the tee, because for a show of this scale you need to have that kind of planning."

Speaking about the journey so far and what's in store ahead for BookMyShow in India, Kunal Khambhati says, "The past three years have seen BookMyShow create several milestones in India's live entertainment landscape bringing to the country, internationally acclaimed artists and never-seen before formats such as *Cirque Du Soleil*, the international musical *Disney Aladdin*, *Ed Sheeran's India Tour*, *Bryan Adams' India Tour*, first ever *NBA Games* in the country, the immersive exhibit of *Marvel Avengers STATION* and finally

U2's historic finale of *The Joshua Tree Tour 2019*. 2020 looks even more promising for us as we bring to India global comedy sensation **Trevor Noah** for his first ever show here in April, cater to young music fans with pop musician **Lauv's India Tour** in June as also launch our first ever IP in the beauty experiential space – **Nykaaand**, in collaboration with the leader in the beauty space, Nykaa. Nykaaand will see the world's most celebrated make-up artist Mario Dedivanovic (Kim Kardashian's makeup artist) conduct his celebrated master class in India. 2020 will see us continue strongly on our journey to make India a definitive landmark in the global live entertainment ecosystem."

As Agarwal exits BookMyShow to explore other opportunities, pondering over his journey in the live entertainment industry, he says, "It's been 13 years for me in this industry. I was picked up by Percept as an intern from NAEMD in 2006-2007. I worked with Sunburn for nine years with Nikhil Chinappa, Aman Anand and Devraj Sanyal who were leading Sunburn at the time. Around the same time, Percept Live came to birth and I moved from Percept D'Mark to Percept Live, where for four years I worked on the Sunburn Arenas, Sunburn festivals and obviously Sunburn Goa. Around this time, Universal Music was talking with Shoven Shah from Twisted Entertainment for EVC, Devraj got in touch with me, and he told me that he wanted me to lead this IP. That's when I moved out of Percept and I joined Universal as a Production consultant. I also did a lot of freelance work for Mr. B Live Entertainment, Scoop and Production Crew. When BookMyShow got into the live entertainment business, Kunal Khambhati approached me to help him build a team. In the first year, I was freelancing with BookMyShow and it was during the time that I worked on Ed Sheeran's debut show for India. Immediately after the Ed Sheeran concert, BookMyShow hired me and I worked for them for nearly two years. I quit BookMyShow recently because I want to create an IP, design stages, plan a festival etc. I want to explore my creative side and not just put together a show following riders. I haven't yet decided what I am doing, I'm still evaluating, but overall, it has been a fun journey for me in the live events space," he concludes.



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## QUALIA RESTAURANT IMPROVES CUSTOMER EXPERIENCE WITH YAMAHA AND NEXO

Nestled in the heart of Mumbai's upper class Lower Parel area is Qualia, a popular fine dining restaurant, founded by renowned Indian chef, **Rahul Atrekar**. With an elegant black and gold-themed interior, the restaurant's clientele is mainly the local elite who go there for the sophisticated ambience and great food.

Qualia blends modern cooking with local Indian ingredients and age-old techniques to produce exquisitely-flavoured dishes.

Perfectly complementing the exceptional food and exquisite decor is a high-quality Yamaha and NEXO audio system. The subtle lighting, open kitchen and bar space is enhanced by high quality acoustics and background music, designed by **Kapil Thirwani** of Munro Acoustics. Understanding the restaurant's discerning visitor demographic, Thirwani has designed an audio environment that truly enhances the dining experience.

To ensure exceptional sound at the venue, while also choosing a cost-effective solution, Thirwani opted for

Yamaha and NEXO products.

The main loudspeaker system comprises seven **NEXO ID24**,

powered by three **DTDAMP** units. Designed to satisfy a wide range of applications, the ID24 was the ideal choice because of its ability to be mounted both vertically and horizontally, its high-quality performance and a sleek, smart design that fit well with the restaurant's interior.

The loudspeakers are complemented by two pairs of **Yamaha CXS15 XLF subwoofers**,



powered by **PX5 amplifiers**. Packed with features including extended low frequencies, outstanding clarity and best in class 133dB SPL performance, the **CXS18 XLF's** lightweight yet rugged design and the PX5's intelligent processing makes



Qualia chooses NEXO ID24 loudspeakers and CX15 XLF subs

them a great solution for high end installations. The system's inputs are managed by a compact **Yamaha MG10 mixer**, installed in the control rack with the amplifiers.

Kapil Thirwani supervised the installation, as well as provided

training and after-sales support to the restaurant's staff. "Thanks to the excellent quality of Yamaha and NEXO products, I believe diners at Qualia enjoy one of the best audio experiences in the entire city," he says.

## L-ISA TECHNOLOGY EXPANDS CONSOLE PARTNERSHIP WITH YAMAHA

As **L-ISA technology** continues to be adopted by live events and in permanent installations, L-Acoustics is pleased to announce the expansion of console partners, adding **Yamaha Professional Audio**, who has co-developed an L-ISA DeskLink for their flagship **Rivage PM7** and **PM10** mixing systems.

"Collaborating with the creative team of experts at Yamaha has resulted in an exceptionally sleek integration of the L-ISA object controls into Rivage mixing workflow. The new DeskLink is a great example of collaborative design," explains **Sherif El Barbari**, Director of L-ISA Labs.

Within the Rivage consoles, for every mono or stereo input channel,



a direct control of L-ISA Objects or Groups will be available on the console control surface and touch screens. The five main L-ISA

parameters - Pan, Width, Distance, Elevation, Aux send - will also be stored for each object in the console Scenes, with dedicated recall scope.

The L-ISA DeskLink provides a seamless workflow on two of the industry's leading consoles, allowing for immersive hyperreal mixing in a familiar environment, making adoption of L-ISA technology even easier.

"It has been a real pleasure to collaborate with the team at L-Acoustics to create a dedicated, deeply integrated, and flexible user interface. As the reputation of Yamaha Rivage PM mixing systems for outstanding sound quality and traditional Yamaha reliability continues to grow, this project will benefit our many joint customers throughout the world," comments **Chris Angell**, Yamaha Pro Audio R&D.



## NX AUDIO LAUNCHES UMD40 DIGITAL WIRELESS UHF MICROPHONE

Designed for quick and easy use for PA Applications, stage and auditoriums, seminar halls, places of worship, recreation centres and more, **NX Audio's** new **UMD40** professional digital wireless UHF microphone system boasts best-in-class aural reproduction and speech intelligibility,

making it ideal for those who desire a high-performance and reliable multi-channel system that's also light on the pocket.

Allowing users unmitigated freedom to choose from

over 50 scannable frequencies while flawlessly working over a mighty impressive 350ft operating range; the UMD40 wireless system takes frequency agility to a whole new level, delivering world-class power with heart-warming simplicity and decisive safety.

The rugged metal body UMD40 handheld transmitters, which feature an on/off/mute and a sturdy mesh cap to the microphone come dynamic microphone capsule that's designed to to a wide

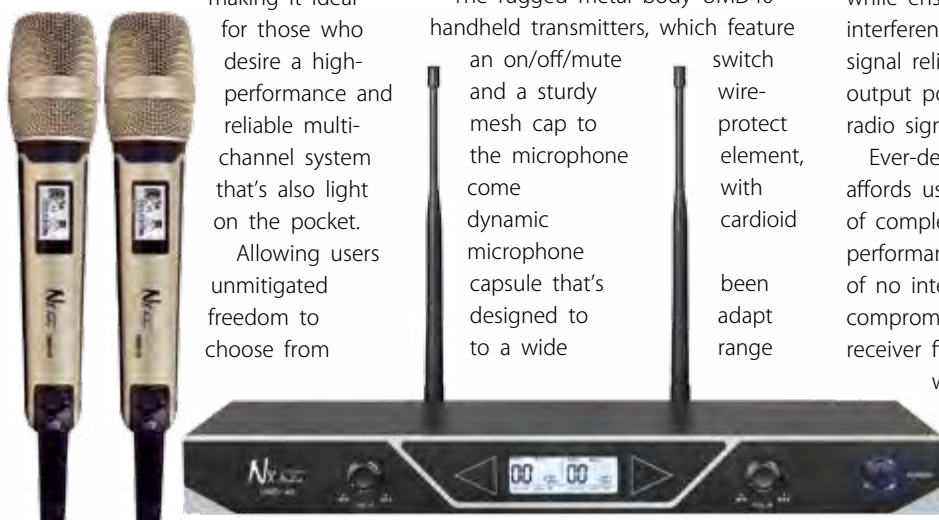
of input sound pressures, and yet offer sublime speech and vocal reproduction, with the assurance of maximum gain before feedback. The system's unique PLL control system (Phase Locked Loop) technology allows for the simultaneous operation of 16 different operating frequencies while ensuring freedom from RF interference and assuring outstanding signal reliability by regulating high output power that allows for stable radio signal transmission.

Ever-dependable SMT circuitry affords users the confidence of complete safety in terms of performance, with the assurance of no interference, drop-outs, or compromised audio quality, as the receiver finds the clearest channel within a matter of mere

seconds. Separate volume controls for each channel gives users greater control over their sound,

whereas the presence of a bright LED screen allows for seamless toggle through sequential menus that affords simple and easy setting up options. Moreover, with the receiver unit also comprised of heavy-duty metal, users are further treated to easy and hassle-free physical connectivity options thanks to the presence of balanced XLR along with unbalanced 1/4" jack connectors.

Musicians, performers, and sound engineers who have tested the new NX Audio UMD40 system have hailed it as a comprehensive smart wireless solution that combines outstanding sound, simple set-up, and roadworthy construction; as it eliminates the hassle and headache associated with many other wireless systems, and allows performers and orators to focus on the message that they wish to get across to the audience. The attractive MRP of Rs.11,000/- makes it a steal that.



## MACKIE REDESIGNS SRM V-CLASS SERIES

Mackie has reimagined and redesigned the **SRM V-Class Series**. The new top-of-the-line SRM V-Class series high-performance powered loudspeakers uses advanced DSP technology, including an all-wood enclosure. Designed for a variety of professional sound-reinforcement applications, the series consists of three models: the **SRM210 V-Class**, **SRM212 V-Class**, and **SRM215 V-Class**, with 10-, 12-, and 15-inch low-frequency transducers, respectively.

Mackie's transducers employ large magnets for maximum efficiency, with the speaker motor and voice coil that produces increased output and transient accuracy. Additional cooling vents surrounding the voice coil combine with directional cabinet porting to ensure maximum heat dispersion and reliability.

Mackie's 1.4-inch polymer high-frequency driver provides a nearly flat response and the Sym-X horn produces minimal distortion, even at high output, and offers a perfectly symmetrical, flat response at the crossover point for exceptionally smooth midrange.

All SRM V-Class models

incorporate Mackie's new 2,000 watt Class D amplifier, which delivers outstanding stability, headroom, and audio fidelity. The amplifier's universal power supply (100 to 240 VAC) includes Power Factor Correction for stable operation, even when AC power is unstable. A dedicated processing module monitors and protects the amplifier in real time, providing system limiting and protection without affecting sound quality and tonal balance. Powerful multi-band compression targets specific frequency ranges to prevent system overloading.

Mackie's Advanced Impulse DSP Proprietary Acoustic Tuning produces clear sound across the entire dispersion area of 60° (H) by 40° (V). A precision crossover and transducer time-alignment ensures balanced and accurate sound. Proprietary Intelligent Bass Management technology uses the processing power of V-Class to dynamically keep low end in check.

With its combination of power and technology, SRM V-Class loudspeakers boast impressive specifications. The SRM210 V-Class can deliver up to 131 dB SPL from 45 Hz to 20 kHz, while



the SRM212 V-Class offers up to 135 dB SPL between 42 Hz and 20 kHz, and the SRM215 V-Class powers out up to 136 dB SPL between 40 Hz and 20 kHz.

On the back panel, SRM Mix Control features a built-in 4-channel digital mixer with two channels equipped with a mic/line/instrument combo input, a dedicated 1/8-inch stereo aux input, and stereo Bluetooth input. A high-contrast full color display enables easy single-knob access to mixer and processing parameters, including channel levels and EQ, application- and venue-specific voicing modes, and an alignment delay. You can save and recall up to 10 user presets, and

the entire system can be locked with a four-digit passcode. SRM V-Class loudspeakers also can be controlled wirelessly with Mackie's SRM Connect app for iOS and Android, which offers access to all adjustments and settings.

In addition, two SRM V-Class loudspeakers can be wirelessly linked, with up to 100 meters of range between linked speakers. Linked speakers can operate in stereo or as dual zones.

SRM V-Class loudspeakers have a dual-angle pole mount and an angled cabinet design, enabling them to be used free standing, pole mounted, or as a high performance floor monitor.

## FAITH ARENA INSTALLS MEYER SOUND

Faith Arena at Rangpuri, Mahipalpur recently updated their sound system with Meyer Sound. The Church premise was updated with **4x ULTRA-X40** point source loudspeakers, **4x 750-LFC** very compact low-frequency control elements, and flying brackets for the ULTRA-X40 loudspeakers with the help of Sun Infonet who was also involved in the PA tuning.

"The Church Auditorium is actually a metal wall warehouse, previously used by a logistics company. At 30ft high, with its structural limitations, the RTA was well over 600ms. Therefore, the main reason for opting for Meyer Sound is its low vertical dispersion angle along with a broad horizontal dispersion, minimizing the reflected sound as much as possible while giving a richer direct sound experience.

The other things among were to prevent metal walls and ceilings from rattling due to low frequencies, yet have sufficient amount of lows to feel the sound. Various brands like L'Acoustics, Fohhn Audio, KV2 etc., were considered before finalizing on Meyer," said **Samarth Shukla**, Proprietor, Ample Connections, who was responsible for the set up.

He further added, "Church sound requires the finesse and quality of being a real life experience rather than just amplified sound, this is exactly what Meyer Sound does."

The client's requirement was a constraint on budget, Samarth informed, and the initial take of the client was another sound system, although the client's desire was to have an extraordinary sound. After a lot of deliberation, quotations and demos from various brands, it was clear that Meyer Sound would be a



**Samarth Shukla, Proprietor, Ample Connections**

steal deal to have a high-end audio setup at a great price, thanks to **Tanmay Masurkar** and his team at Sun Infonet.

**Ankit Sajwan**, Senior Pastor

of FOLJ Church & the Church Visionary for Faith Arena said, "The sound of the Meyer equipment is unreal and way beyond expectations."

## MARTIN AUDIO ANNOUNCES FIVE NEW PRODUCTS FOR ASIA

**Martin Audio** has made a dynamic start to the New Year with the announcement of five new products, specifically for Asian markets.

First out of the gates is the new **S. Series**, comprising three passive two-way systems — the **S.10**, **S.12** and **S.15** designed specifically for small-medium entertainment installations and family KTV.

S. Series enclosures feature a user-rotatable horn for vertical or horizontal orientation and multiple M8 threaded inserts for easy installation. The trapezoid enclosures are braced internally to reduce panel resonances and improve sonic performance with drivers protected by a perforated steel grille.

Rear ports couple the low-frequency output to walls or ceiling, producing enhanced bass output without the need for additional subwoofers.

The **S.10** is a compact, two-way passive loudspeaker designed for family KTV, BOX KTV and music bar rooms. It utilizes a 10"/2.5" voice coil, LF driver and a 1" exit HF compression driver with a 1.4" polyimide diaphragm.

The **S.12** is a high-performance, two-way entertainment system featuring a 12"/2.5" voice coil LF driver unit and a 1" exit compression

driver with a 1.4" (35mm) polyimide diaphragm on a rotatable 80° x 50° HF horn.

The **S.15** features a powerful 15"/3" voice coil LF drive unit and a 1" (25mm) exit HF compression driver with a 1.75" polyimide diaphragm for extended high frequency response.

In addition, Martin Audio has extended the best-selling **BlacklineX** series with the **X218 subwoofer** and the high power **XH15 passive two-way system**, aimed at the club and entertainment market.

The X218 is a dual-driver, high performance subwoofer with an operating range of 42Hz-200Hz + 3dB. It produces high output levels 141dB peak SPL (half space) with low distortion and can be used singly or stacked horizontally. It features dual 18"/4"

voice coil, long-excursion drivers in a reflex enclosure with eight large ports that reduce air turbulence at high output levels.

The high power Blackline XH15

provides improved performance over the existing Blackline X15 in a wide-bandwidth system and a compact and efficient package.

Extended frequency response is provided by a 15" LF driver and a 1.4" exit compression driver mounted on a rotatable 80° x 50° constant directivity HF horn.

The HF driver utilizes a titanium diaphragm with controlled break-up modes for improved sonic performance at high frequencies and the crossover design and LF cone profile have been optimized to match the directivity of the HF horn and LF section through the crossover region.

Summing up the new launches, Martin Audio's Managing Director, **Dom Harter**, said, "Our double-digit growth for the last three years has been largely born out of a new product drive and these latest additions primed for Asia markets will further drive our pedigree and success in both club and KTV installs."

All products will be shipping in Asia from the end of **March 2020**.



**Martin Audio S. Series**



**Martin Audio BlacklineX X218**



## YAMAHA LAUNCHES NEW WHITE DZR/DXS XLF AND CZR/CXS XLF

Yamaha launched the new white models of its flagship **DZR/CZR** series and **DXS XLF/CXS XLF** loudspeakers / subwoofers at the NAMM 2020 Show.

All DZR/CZR and DXS XLF/CXS XLF models will be available in the new white finish, providing more options for a greater variety of uses, such as hotel banquets, houses of worship and auditoriums, where a high quality audio system needs to blend into the design of the space.

The DZR range comprises of

eight full-range models and four DXS XLF subwoofers, including 'D' versions that feature onboard Dante IN/OUT capability. Featuring high quality SPL performance, 96kHz DSP processing and low-frequency sound reproduction, the DXS XLF subwoofers can reach an extended low frequency of 30Hz, the lowest of any DXS subwoofer yet.

The passive CZR series features three full-range models, with



two CXS XLF subwoofers sharing the same cabinet and speaker components as the DZR/DXS XLF models, delivering very high power-handling and focused, and professional sound.

Optional accessories for the new models include a white U

bracket that is easy to install in both vertical and horizontal configuration. The existing SPCVR series speaker covers for all models (available in black only) and wheel kit for DXS XLF / CXS XLF subwoofers can also be used with the new white models.

## RCF HDL-30A FOR GAUTAM SOUNDS & LIGHTS, PUNE

One of Pune's old and renowned rental company, **Gautam Sounds & Lights (GSL Pro)** is one of the most reliable names when it comes to audio

HDL-30A system along with 9006-AS for a live show at the popular Azzurro Club in Pune. As we wanted to avoid the rear lows build-up,

HDL system proved that size doesn't matter", shares the youthful and excited Director/System Engineer of GSL Pro – **Kunal Kumble**.

DSP on each box makes the system as one of our favourites. Really small box but big and precise sound."

Wedding, live events, corporate gigs, political assemblies, rallies and conferences are the forte of Gautam Sounds & Lights. Their technical team and management are always eager to offer the best and latest audio services to the clients. Investing in the RCF HDL-30A system has given an edge to their growing business.

"What more can you ask for if clients are happy and satisfied with your services. I believe that your client's success is always your benchmark in the market. With an internationally acclaimed brand like RCF, we are able to win confidence and trust of our clients in India," shares **Rajan Gupta**, Managing Director of Hi-Tech Audio Systems.

To conclude, **Nirdosh Aggarwal**, Director Sales of Hi-Tech Audio Systems adds, "There is a fierce competition in the pro-audio segment and rental companies are always on the look to invest in trusted brands. We are able to provide that trust and promise along with after sales technical support and services to the rental owners with RCF. We are glad we are associated with GSL Pro and we look forward to add more RCF owners across Pan India in the year 2020."



RCF HDL-30A system installed along with 9006-AS for a live show at Azzurro Club in Pune



and lighting industry. GSL Pro has been in the market since 1980 and with time have expanded their event portfolio and clients. Recently the company invested in RCF HDL-30A (8 nos) and Sub 9006-AS (4 nos) from **Hi-Tech Audio Systems**, India distributor of RCF. The inventory was supplied to GSL Pro through one of Hi-Tech Audio's associated dealer partner.

"Recently we have installed RCF

we used three 9006 subs as centre cardioid stack which helped us focus the lows from stage to the audience. To cover the club venue evenly, our team stacked three HDL-30A per side and two at the front. The entire system was on the RDNet controlled system which always makes our work easy. A power packed live band and DJ session blew away the audience throughout the night. Truly versatile,

"RCF and GSL Pro go back a long way. From RCF LF18X400 subwoofers to the new HDL systems, we have always been amazed by the reliability of the systems", says **Rajratna Pawar**, Managing Director, Gautam Sounds & Lights. He continues, "In this era of fast rigging and constant touring, the HDL system truly makes its mark. Easy to rig, easy to tune makes the HDL system worth the investment. No hassle for amp stack and individual

## HARMAN PROFESSIONAL SOLUTIONS ANNOUNCES ADITYA TODI AS SENIOR DIRECTOR – SALES AND MARKETING

*With close to 5 years of experience in the Professional Solutions division, Todi brings insightful experience in business and finance*

HARMAN Professional Solutions, the global leader in audio, video, lighting, and control systems, announced the appointment of Aditya Todi as Senior Director – Sales and Marketing, Professional Solutions, India and SAARC. In this role, Todi will be responsible for overseeing the division's business and functional aspects in India.

Until recently, Aditya was heading the finance function at HARMAN India. Prior to HARMAN, he has worked with various multinationals including Cisco and Wipro.

"I am immensely privileged to accept the role of Senior Director – Sales and Marketing, and do so with great humility and awareness of the tremendous responsibility of

carrying forward HARMAN's iconic brands in India," said **Aditya Todi**, Senior Director – Sales and Marketing, Professional Solutions, India and SAARC. "I hope to usher in a new chapter for HARMAN Professional Solutions and commit to a robust roadmap that caters to the needs of our diverse set of consumers."



**Aditya Todi as Senior Director – Sales and Marketing**

## HARMAN PROFESSIONAL SOLUTIONS ANNOUNCES BRIAN DIVINE AS DIVISION PRESIDENT

*With a 15-year background in the Professional Solutions division, Divine brings deep experience in operations, engineering, and product development, along with the key verticals served by HARMAN Pro*

HARMAN Professional Solutions have announced the appointment of **Brian Divine** to President of the Professional Solutions division, effective immediately. As president, Divine will be responsible for overseeing the division's worldwide operations, strategy, product roadmap and performance across all eleven brands.

Divine's elevation to the role is culmination of a nearly 20-year-career working in the professional audio, lighting and video control industry. In his 15 combined years at HARMAN Professional, Divine worked closely with distributors and customers in nearly all of the entertainment

and enterprise vertical markets the division serves in roles overseeing customer service, sales, engineering, marketing, and product management. Divine was most recently Senior Vice President for Products & Customer Solutions in the Professional Solutions division and Vice President of Product & Program Management, respectively.

"I am honored to accept this role, and do so with great humility and awareness of the awesome responsibility of carrying forward HARMAN's iconic brands that were built over the course



of, in some cases, nine decades," said **Brian Divine**, President, HARMAN Professional Solutions. "The pro industry is in my DNA as my career was built through dedication to HARMAN Professional Solutions and its employees, channel partners and customers. These influences will directly impact the direction of the division as we look towards a robust roadmap committed to, and aligned with, customer needs for leading-edge pro products in audio, lighting and video control."

**Brian Divine, President, HARMAN Professional Solutions**

## WAVES AUDIO ANNOUNCES NATIVE PROCESSING SUPPORT FOR SUPERRACK

Waves Audio announces Native processing support for Waves SuperRack, the next generation of plugin processing software for live sound and broadcast engineers.

The **Waves SuperRack** live plugin rack now supports Native processing. Native mode lets you run Waves plugins on the CPU power of your Windows/Mac computer, using any ASIO/Core Audio interface, without a SoundGrid server connected.

The SuperRack Native and Waves Dugan Automixer are used to optimize mixing of multiple mics in live speaking and corporate forum

installations. The Dugan Automixer plugin automatically controls the gains of multiple mics in real time to maintain a consistent output level across all mic channels and reduce feedback, noise, and comb filtering effects from adjacent microphones. This enables perfectly matched crossfades between each speaker, without signal compression or unwanted sonic artifacts caused by noise gates.

This setup is ideal for a wide range of AV installations, including conference

rooms, corporate presentation theaters, live news panels, talk shows, and any scenario involving scripted or non-scripted dialog between multiple speakers.



Waves SuperRack is a cutting-edge plugin rack that runs both Native and SoundGrid processing. It lets users run up to 128 audio channels through multiple instances of Waves plugins with near-zero latency and offers endless customization options that make it easy for you to tailor the application to your very own mixing workflow. FOH, monitor, broadcast, and AV engineers can now run plugins in real time, customize their workspace with floating windows, set extended-scope snapshots, and run any live show with more speed and confidence than ever before.



## NEXO AND YAMAHA COOK UP A STORM AT MUMBAI'S TYPHOON SHELTER

Giving shelter to those hungry for an authentic Chinese cuisine is the Typhoon Shelter situated in the thriving Phoenix Mills compound in the swanky Lower Parel area of Mumbai. Designed on the concept of Hong Kong's typhoon shelters, the restaurant has become a popular hangout in the city.

The restaurant has been designed in a manner as to create an immersive experience of sitting in the middle of an approaching typhoon. The ceiling depicts thunder clouds, giving a sense of foreboding and curiosity at the same time. Subtle lighting, Chinese motifs, visual elements and thematic music, complete the entire experience.

With a variety of spaces, including the main seating area, bar area and an exclusive private area, the Typhoon Shelter needed a multifunctional and diverse range of sound equipment for which they roped in Munro Acoustics. **Kapil Thirwani** and **Prashant Nair** from Munro Acoustics visited the area and decided that the **NEXO GEO M620** would be a perfect fit for the restaurant.

The GEO M620 is a full-range unit for stand-alone, curved array or line array application. Extremely compact in size (191 x 373 x 260 mm), the M620 module punches well above its weight of less than 10 kgs. "Our most important design objective was to achieve uncompromised sound quality, and multi-functionality for the

system. The combination of high power and low visual impact makes the Geo M620 the perfect choice for the restaurant," says **Prashant Nair** from Munro acoustics India.

The **M6 line array** configuration consists of seven speakers with two speakers covering the bar area, two virtually invisible speakers on each side of the restaurant and one speaker at the back of the restaurant covering the private sitting area.



Along with seven units of the NEXO GEO M620 speakers the restaurant has been installed with three units of the **Nexo LS18 subs**. Clever cabinet design empowers the LS18 sub bass module to bring new levels of versatility to NEXO GEO products. Completing the sound experience are three units of the high efficiency **NEXO DTD amplifiers**.

In addition to the authentic continental food, patrons visiting



Typhoon Shelter installed with Seven units of NEXO GEO M620 and three units of Nexo LS18



the restaurant are also treated to an immersive sound experience like none other, courtesy the YAMAHA and NEXO sound systems. Besides integrating the systems, Munro

Acoustics has also provided training and crucial after sales support to the restaurant is being taken care of by YAMAHA and Munro Acoustics jointly.



## BOSE PROFESSIONAL IMPRESSES AV-SI COMMUNITY ACROSS INDIA WITH MULTI-CITY INSTALLED SOUND EXPANSION TOUR

**Bose Professional** – the undisputed leader in innovative professional audio solutions and technologies – recently concluded an elaborate multi-city tour in India to familiarize the country's top AV and SI professionals with the brand's Installed Sound Expansion initiative that comprises an extended selection of products designed to work flawlessly as a scalable and flexible cohesive system that assures superlative listening experiences for application spaces like hotels, higher education campuses, retail spaces, entertainment venues, places of worship, indoor and outdoor venues, and more.

Aligned with Bose Professional's global business strategy; the Installed Sound Expansion tour, which was commissioned by the brand's Indian subsidiary in partnership with its regional distributors, hosted a well-executed commutual schedule of meetings, discussions, trainings, workshops and socializing between the brand's leadership team and the attendees. The audience profile comprised distributors, dealers, channel-partners, consultants, system

installers by proving to be a single point of contact for high-performance complete professional audio systems and solutions that empowers them to create aesthetically pliable tailored sound systems with Bose Professional's trademark sound signature for a greater variety of spaces in in hospitality, retail, entertainment, education, and enterprise workspaces. And I'm glad we were able to demonstrate the extended capabilities of Installed Sound Expansion to the Indian market at large through this tour."

The tour kicked off in Chennai at the Taj Connemara on 3rd January 2020 where the brand partnered with Visionhire; while the second event in the series was hosted at The Park Hotel in Bangalore on 10th January 2020. Shortly thereafter, Bose Professional collaborated with Cubix Micro Systems to host the third and fourth events of the tour in Mumbai and Pune respectively, with the session in Mumbai conducted on 16th January 2020 at Melhua The Fern while the one in Pune took place at The Crowne Plaza on 24th



Glimpses from the Bose multi-city Installed Sound Expansion tour

integrators and end users; with an average turnout of over 100 individuals from over 50 companies in each city.

**Vibhor Khanna**, Country Manager – SAARC, Bose Professional, shared "With Installed Sound Expansion, Bose Professional has revolutionized the dynamic for system designers, SI and

January 2020. The tour culminated in Kolkata on 31st January at the Taj Vivanta as Bose Professional partnered with Hi-Tech Audio Systems for the event.

Optimum audience engagement was maintained through a flurry of short informative sessions that detailed the nuances of Installed

Sound Expansion's various new technologies and their unparalleled value in real-world application scenarios. The commutual schedule also emphasized live demonstrations of Bose' revolutionary technologies like the DesignMax (Surface and Ceiling variants) and Panaray MSA12X, along with passive displays and informative sessions on the EdgeMax and Arena Match + Arena Match Utility loudspeakers,

PowerSpace amplifiers, ControlCenter zone controllers and ControlSpace range of products for enterprise. The aforementioned series of products were introduced in 2019 as part of a massive influx of leading-edge install-specific technologies from Bose that spanned over 50 new products aimed at delivering enhanced audio

experiences across application segments.

Vibhor notes the rewarding consequences that the tour has already borne, as he comments "Partners who attended the events in Chennai, Bangalore, Mumbai, Pune and Kolkata have expressed their excitement about the Installed Sound Expansion line of products, citing the possibility to offer easy-to-operate and flexible high quality comprehensive Bose Professional systems for a wider range of application spaces – the likes of which were previously inaccessible. Their feedback has inspired us with confidence to look forward to an exciting time of business growth for Bose in India, with the promise of continuing to offer the market with revolutionary technologies and solutions that are high on performance and quality".

The company notes that plans are under-way to commission the final event of the tour in New-Delhi at a soon-to-be-announced time and location.





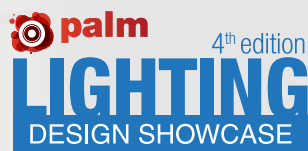
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Concurrent with



# New Meyer Sound Systems Highlight 50<sup>th</sup> Anniversary of India's NATIONAL CENTRE FOR THE PERFORMING ARTS

***NCPA recently installed new Meyer Sound Systems in the two of their principal venues — Tata Theatre and Jamshed Bhabha Theatre***

**W**idely heralded as one of India's leading cultural institutions, The **National Centre for the Performing Arts (NCPA)** in Mumbai recently celebrated 50 years of presenting an extraordinary array of dance, drama and musical performances by Indian and international artists. To assure audiences a consistently outstanding listening experience, and also to streamline operating logistics, NCPA recently installed new permanent Meyer Sound reinforcement systems in its two principal venues, the **Tata Theatre** and the **Jamshed Bhabha Theatre**.

Established in 1969 by the theatres' namesakes, J.R.D. Tata and Dr. Jamshed Bhabha, The NCPA inaugurated its current building complex — including the Tata Theatre — in 1980. The Jamshed Bhabha Theatre was added later, in 1999. Although both are mid-sized

venues, they are of dramatically different design. The 1,010-seat Tata Theatre was conceived by American Modernist architect Philip Johnson as an intimate, semi-circular space with only 15 meters separating the first and last seating rows; it is the preferred venue for Indian classical concerts, Western chamber music and both Western and Indian dramatic performances. The Jamshed Bhabha Theatre, with a capacity of 1,109, offers a more typical proscenium venue better suited to opera, ballet, Western orchestral music, and theatre.

Prior to the recent renovations, the Tata Theatre offered only a minimal vocal system and the Jamshed Bhabha Theatre had no system at all. This was increasingly problematic as a wider diversity of programming coupled with changing public tastes dictated increasing use of amplification.

"In years past we were required to hire in systems of various brands from different vendors," says **Nayan Kale**, NCPA General Manager, Technical. "This was consuming a







(L-R) Sandeep Braganza, Sales Manager SAARC, Meyer Sound; Nainesh Vora, Founder & Owner, Image Engineering; Richard Nowell, Owner, RNSS Ltd.; Nayan Kale, General Manager, Technical, NCPA



Jamshed Bhabha Theatre

lot of set-up time and affecting the quality of sound."

To develop a technical brief for meeting all performance goals, NCPA management engaged London-based consultant **Richard Nowell** of RNSS Ltd. to fashion permanent solutions based on the latest technologies. After visiting the venues and consulting with Kale and Chief Audio Engineer **Ashwin Jyoti**, Nowell responded with a base specification allowing three options from different loudspeaker manufacturers. Based on stated performance specifications, availability of local support and familiarity with similar systems elsewhere, a Meyer Sound solution was chosen for both venues.

The Tata Theatre presented a unique set of challenges. The extreme width and shallow depth, coupled with the unique acoustical features created by legendary acoustician **Cyril Harris**, rendered the typical line array solution a poor choice.

"The Tata was originally — and brilliantly — designed for Indian classical music and dance. The design puts the audience 150 degrees around what is effectively a thrust stage. The historical status of the architecture meant we wished the installation to be as unobtrusive as possible. This required a complete rethink of how amplified music might be approached in this space. The look of the system was almost as important as the sound. Mr. Kale went to enormous lengths to provide a new rigging system, and Meyer Sound provided colored cabinets

to match the room whilst the new UP-4slims allowed a front fill solution that was visually unobtrusive."

The distributed system comprises five evenly spaced clusters, each with a UPQ Family loudspeaker over a **UPJ-1P loudspeaker** for even front-to-back coverage. Spaced between these clusters, three **900-LFC** low-frequency control elements supply ample bass energy. Front fills are five **UP-4slim loudspeakers**, with system management supplied by a **Galileo GALAXY 816** network platform and comprehensive system monitoring enabled via an **RMServer**. Systems for both theatres were supplied and installed by Image Engineering of Mumbai under the direction of **Nainesh Vora**.

The greater depth and narrower dimensions of the Jamshed Bhabha Theatre pointed to a line array

permanent cabling," observes Nayan Kale. "Now we have a good level of sound across the seats and greater consistency across different performance types. The Meyer Sound self-powered systems also help save onstage space, which had otherwise looked cluttered with the equipment racks of the hired systems."

The response from artists and audiences has been overwhelmingly positive, Kale maintains. "It has satisfied all requirements for performances from jazz to rock and classical. The audiences are appreciating the crystal clear music and speech in every seat."

"In both theatres, the systems have outperformed even my expectations," adds **Richard Nowell**, "and have been incredibly well



Tata Theatre

solution, in this case realized by 10 **LEOPARD loudspeakers** per side, with each array flown underneath two 900-LFC low-frequency control elements. Near fills are seven UP-4slims, with pairs of UPQ Family and **UPM-1XP** loudspeakers positioned back in the auditorium as delays. Also included were a **GALAXY 816 processor**, an RMServer for monitoring system performance and a pair of UPJ-1P loudspeakers for confidence monitoring in the mixing booth.

"The new systems have definitely reduced set-up time, and they are much safer because of the

received by engineers from all music genres."

The NCPA recently capped its golden anniversary celebrations with the Add Art Festival from November 29th to December 1st, with featured performances in both theatres by — among many others — Arturo Sandoval, Zakir Hussain and the NCPA's own resident Symphony Orchestra of India. The performing arts Centre began 2020 with a new portable system of two **ULTRA-X40 loudspeakers** and two 900-LFC low-frequency control elements for performances and rehearsals.



# Stage Microphones

*Spotlight on Stage Microphones launched in 2019*

## Ahuja Pro Series

### PRO+ 7500du

PRO+ 7500du is a most elegant and durable Live Stage Performance Microphone with TWO CARTRIDGES for good distance pick-up. High sensitivity and supercardioid pattern makes it ideal for Live Stage Performances, as well as Vocal and Choir applications.

#### Main features include:

- Built-in dual high sensitivity cartridges for excellent distance pick-up.
- Cartridges are effectively shock mounted to reduce handling noises.
- Slide potentiometer for smooth and noiseless ON/OFF operation.
- Supercardioid polar pattern for obtaining higher gain before feedback.
- Unique hinge design for angle adjustment - forward 30° and backward 45°.
- Rugged zinc die-cast body in classic design.

#### Technical Specifications:

- Mic Type: Dynamic
- Polar Pattern: Supercardioid
- Impedance: 1.2k OHM
- Frequency Response: 50-15,000Hz
- Sensitivity: 5mV/Pa
- Switch: ON/OFF Slide Potentiometer Switch

### PRO+3400

Ahuja PRO+3400 is a premium microphone for the most demanding high end applications.

#### Main features include:

- Large diameter diaphragm for more sound pickup and



better sensitivity.

- Supercardioid directional pattern to reduce feedback and allow more volume opening.
- Hum-bucking coil on the transducer to reduce hum and electrical noise pickup.
- Excellently adjusted proximity effect without distortion.
- Superb shock mount system for the transducer, to avoid handling noises.
- Wide frequency response to cover all speech and music applications.
- Ideal for all Vocal and PA applications..

#### Technical Specifications:

- Mic Type: Dynamic
- Polar Pattern: Supercardioid
- Frequency Response: 40-16,000Hz
- Impedance: 350W
- Sensitivity: 3.15mV/Pa
- Switch: High Quality Magnetic On/Off Switch for noise-free switching
- Cable: 10 mtrs. twin core shielded low noise with 3 pin XLR connector & metal 6.3mm phone plug
- Body: Zinc die-cast in attractive finish

## Aston – Stealth

The Aston Stealth is a revolutionary, broadcast quality microphone for studio and stage. With 4 switchable voices delivering unparalleled performance in almost any situation, a Class A built in mic preamp with autodetect 48V Phantom power and featuring a unique Sorbothane internal shock mount system.

#### Main features include:

- Active & Passive modes with 48V Autodetect function
- Built-in Class A preamp increases mic sensitivity in active mode (requires phantom power)
- Auto-detects 48-volt phantom power to engage active mode
- 4 different settings: 2 vocal, 1 Guitar, and 1 Dark
- Internal Sorbothane shockmount minimizes low-end rumble
- Includes quick-release mic stand mount
- Purple LED phantom power indicator can be disabled for Stealth mode
- Capsule is enclosed in a stainless steel Faraday cage for maximum interference rejection

- Eco-friendly packaging which is protective, and re-useable.

#### Technical Specifications:

- Transducer Type: Moving coil
- Directional Polar Pattern: Cardioid
- Frequency Response: 20Hz – 20kHz (+/- 3dB)
- Equivalent Self Noise Level: 10dB A-weighted
- Sensitivity at 1kHz into 1kohm - passive mode: Average 1 mV/Pa (varies across 4 voices)
- Sensitivity at 1kHz into 1kohm - active mode: Average 150 mV/Pa (varies across 4 voices)
- Maximum SPL for THD 0.5%: 140dB
- Product length: 196 mm / 7.72 in
- Product width: 58 mm / 2.28 in
- Product weight: 692 g / 1.52 lb



## DPA – 2028 Vocal Microphone

The 2028 Vocal Microphone is designed for the unique challenges of live stage performances. It is a flexible handheld vocal mic, which provides transparent, fantastic vocals to performers from a wide range of markets including live, HoW, broadcast, etc.

#### Main Features include:

- Renowned DPA sound
- Natural vocals – from folk to metal
- Reduces feedback issues
- Rugged enough for the live stage
- Uniform supercardioid directionality
- Extreme SPL handling
- Flat off-axis response
- Wired DPA handle with standard XLR output

#### Technical Specifications:

- Directional Pattern: Supercardioid
- Principle of operation: Pressure gradient
- Cartridge type: Pre-polarized condenser
- Effective frequency response: 20 Hz - 20 kHz
- Frequency range,  $\pm 2$  dB, at 12 cm (4.7



- in): 100 Hz - 16 kHz.  
Permanent 3rd order low-cut filter at 80 Hz
- Sensitivity, nominal,  $\pm 3$  dB at 1 kHz: 5 mV/Pa; -46 dB re. 1 V/Pa
  - Equivalent noise level, A-weighted: Typ. 22 dB(A) re. 20  $\mu$ Pa (max. 23dB(A))
  - Distortion, THD < 1% : 136 dB SPL RMS, 139 dB SPL peak
  - Dynamic range: Typ. 117 dB
  - Max. SPL, THD 10% : 160 dB SPL peak
  - Rated output impedance: 150  $\Omega$
  - Minimum load impedance: 1 k $\Omega$
  - Cable drive capability: 100 m (328 ft)
  - Output balance principle: Impedance balancing with Active Drive
  - Common mode rejection ratio (CMRR): > 50 dB at 1 kHz
  - Power supply (for full performance): 48 V Phantom power ( $\pm 4$  V)
  - Current consumption: Max 2.5 mA
  - Connector: XLR-3M. Pin 1: shield, Pin 2: signal + phase, Pin 3: - phase
  - Weight: 286 g (10.1 oz)
  - Diameter: 48 mm (1.9 in)
  - Capsule diameter: 19 mm (0.75 in)
  - Microphone length: 188 mm (7.4 in)
  - Maximum output voltage, RMS: 9 Vrms; 19 dBV; 28 dBu
  - Polarity: +V at pin 2 for positive sound pressure

### Earthworks – SR314

The Earthworks SR314 is a handheld condenser microphone designed to meet the expectations of a live performance environment. By systematically eliminating the many layers of distortion and noise normally added by each acoustic and electronic component, the Earthworks SR314 pulls back the veil to reveal the true voice of the artist.

#### Main Features include:

- Small diaphragm cardioid condenser capsule
- Class A amplifier circuit
- Extended flat frequency response from 20Hz-30kHz
- Tight cardioid polar pattern with consistent frequency response to 90° off-axis
- 145dB SPL handling



- Includes MC4 microphone clip and storage bag
- Maximum rejection of sound sources at 180 degrees
- Stainless Steel Chassis

#### Technical Specifications:

- Frequency Response: 20Hz – 30kHz
- Polar Pattern: Cardioid
- Sensitivity: 10mV/Pa (-40dBV/Pa)
- Power Requirements: 24-48V Phantom, 10mA
- Max Acoustic Input: 145dB SPL
- Signal-to-Noise Ratio: 79dB A-weighted
- Output: XLR (pin 2+)
- Output Impedance: 65 $\Omega$  balanced (between pins 2 & 3)
- Min Output Load: 600 $\Omega$  between pins 2 & 3
- Noise: 15dB SPL equivalent (A weighted)
- Dimensions (L x D): 181.1mm x 40.6mm (7.13 x 1.60 inches)
- Weight: 1.5 lb. (.68kg)



### Electro Voice – RE520

The RE520 is a premium-grade, high-performance, condenser supercardioid vocal microphone. Designed to reveal the exceptional detail and vivid clarity synonymous with condenser elements, it elegantly delivers the lyrical finesse required for expressive vocal performances, while controlling off-axis sound from near-by sources..

#### Main Features include:

- Premium condenser element delivers a highly detailed, full, and vivid sound
- Supercardioid polar pattern provides excellent acoustic isolation and feedback control
- Multi-stage pop filter minimizes breath blasts and plosives
- Selectable high-pass filter reduces undesirable low frequency content when engaged
- Vibration-absorbing internal shock mount minimizes handling noise
- Internal 150Hz highpass (bass roll-off) switch
- Vivid, full-bodied sound (40Hz-20kHz)
- Zinc diecast body with black polyurethane paint and steel wire cloth grille

#### Technical Specifications:

- Element type: Self-biased condenser
  - Frequency response: 40 Hz-20 kHz
  - Polar pattern: Supercardioid
  - Sensitivity, open circuit voltage: @ 1 kHz: 5.6 mV/Pascal (-45 dBV/Pa)
  - Clipping (max SPL): 150 dB SPL (1% THD)
  - Self noise: 17 dB SPL "A" weighed (0 dB=20  $\mu$ Pa)
- Dynamic range: 133 dB
- Signal-to-Noise ratio: 77 dB
  - Output impedance: 200 ohms
  - Power requirements: 48 VDC phantom power
  - Polarity: Positive pressure on diaphragm produces positive voltage on pin 2 relative to pin 3
  - Electrical contact: 3-pin, XLR-type
  - Finish: Black polyurethane paint
  - Materials: Zinc die cast, steel wire cloth grille
  - Dimensions, length: 7.6 in. (192 mm)
  - Diameter: 1.95 in. (49.5 mm)
  - Shank: 0.96 in. (24.3 mm)
  - Net weight: 11.7 oz (332 g)
  - Shipping weight: 1 lb 5.1 oz (598 g)



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

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## IT'S SHOWTIME FOLKS!

Events with the use of tech today maybe a given today, but 25 years ago one man stood in the forefront of 'Technology at Events' Michael Menezes Chairman of Showtime and founder president of EEMA, passed away peacefully in his sleep. To me Michael was the "MasterYoda" of event technology a pioneer, a trendsetter a mentor a guide and a friend to even people who could do nothing for him. I can say I have been privileged to work this exceptional human being who has left a legion of people with his legacy.

Today the need for technology at events is growing at such a fast pace and we have to constantly keep ahead of the times but not many knew that there was a guy who was convincing his clients to use high end technology and then would push us service providers to procure them and execute them in his vision, that two decades ago even if the technology wasn't available and neither did we have the resources to invest in them, he lead the way and invest in the mechanization himself. There was no doubt in the 90's Showtime had the best lasers in India, they had the best access to technical knowledge and the looked the length and breath of this country to get it and if it wasn't available they imported it.

Michael trusted his cadres only because he made great choices in people and that's the vision of a true leader and very often he would also encourage using skill set from overseas whilst many in India opposed this as to why not give locals a chance, little did we know that we sub-consciously

learnt show tech production from these individuals and there were occasions where we got a chance to prove ourselves too, he had a healthy combination of international and domestic skill set on his productions and this culture still exists today with his organization.

I have had many journeys in the field with Michael Sir and we even travelled together to Davos for the World Economic Forum and executed events in sub zero temperatures. A lot of industry people think that it is the artists who demand for the latest technology but that isn't entirely true it's the event managers too who are looking for the same and taking a cue from Michael spawned so many other event companies who had to play catch up to his ideas of flying cars, lasers, vivid video, surround



Michael Menezes

sound, scenic design par excellence.

I also remember Michael encouraging me to come to his office and give his staff workshops in technology so that they could use it to their best potential. He always had a great team that focused on automation and were hungry to execute the same. So what happens when your

needed 48 speakers flown in pairs in a multi-channel format, the challenge wasn't the box count as much was the array frame count. We achieved the quantities and the results sonically and Michael just gave me a pat on my back "Lazy Catholic Boy, Well Done" and the name Catholic Boy stuck.

“Today the need for technology at events is growing at such a fast pace and we have to constantly keep ahead of the times but not many knew that there was a guy who was convincing his clients to use high end technology and then would push us service providers to procure them and execute them.”

driven on the top, it gets rubbed off to your team and they too get interested on the same and even when they move on they keep these ideologies in mind.

His legacy continues with Avik, GodBless & GodSpeed Sir Michael, you do not know how many people you have inspired.

The event industry is laden with the creative and the enterprise and there are few individuals who recognize this, we have to be grateful and we should celebrate such individuals who have married both to reproduce a great event because it pushes you to use technology to its full potential. I vividly remember we did an event for Castrol and

I could not be there for his last moments but knowing Michael he would have not wanted us to leave our responsibilities for him "The Show Must Go On" and I dedicate the best of 2020 to you, the one and only doyen of this event industry "Sir Michael" There can never be another like you!

Warren D'souza - Founder,  
Managing Director, & Working  
Member of Sound.Com  
Instagram @warrendsouza  
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## CLAYPAKY LAUNCHES SHARPY PLUS AQUA

Designed in the spirit of the award winning Sharpy Plus platform, the **SHARPY PLUS AQUA** luminaire is an IP65-rated moving head fixture perfect for outdoor events, touring, permanent installations, cruise ships, and much more. This new fixture maintains the same performance features of its predecessor, the Sharpy Plus luminaire, in a new weather-resistant package; giving you greater flexibility in a single luminaire.

With the SHARPY PLUS AQUA luminaire, Claypaky has addressed and enhanced the design of the SHARPY PLUS AQUA in critical areas to make sure this fixture

maintains the brightness, efficiency, and performance you need and expect. The cooling system has been redesigned and optimized specifically for this new outdoor configuration for the Osram Sirius HRI® 330W X8 lamp currently used in the Sharpy Plus fixture. This lamp is a proven performer in its reliability, output, and is consistent in both brightness and color temperature.

Just like the Sharpy Plus, the SHARPY PLUS AQUA fixture offers two distinct operating modes – beam or spot. The 3° to 36° zoom covers the entire zoom range linearly with a beam that is always perfectly sharp

and uniform in either mode. The SHARPY PLUS AQUA offers the same complement of prisms, rotating and fixed gobos, color wheels, CMY color mixing, and more.

The SHARPY PLUS AQUA is also an appealing unit when you consider the value. At a price point every rental company will appreciate, you can take home a light with truly excellent performance, which you can use in a wide range of environments and entertainment venues, whether your requirements are for a beam or spot fixture, for indoor or outdoor applications.



## PROLYTE ASIA PACIFIC (PAP) BECOMES SIXTY82 DOUGHTY ASIA (SDA)

Maintaining its focus on supplying the urgent demand for high-quality trussing and staging products and solutions, Prolyte Asia Pacific, also known as PAP, is pleased to announce its transition into SIXTY82 Doughty Asia (SDA).

“For the past 15 years we have operated under the name PAP, however, due to recent events in the industry, PAP has decided

to take a step forward and start a fresh chapter with new partners,” states **Menze van der Sluis**, Managing Director of PAP, and one of the first people employed by Prolyte in its early days. Van der Sluis played a significant role in the development of the company and, with nearly 25 years of experience, has become renowned and respected within the entertainment industry.

Widely known for its state-of-the-art products, reliability, and education, along with a focus on safe working practice, customer satisfaction, and in-depth service, PAP has been a critical player in the Asian market for more than 15 years. “These values are essential to our organization and will remain firmly in place now that we have transitioned into SDA.”

To ensure the continuation of this philosophy and to secure the ability to innovate, PAP and Doughty have decided to join forces with SIXTY82, forming SIXTY82 Doughty Asia. “SIXTY82 was the best and only choice for catering to the high standards of the extensive PAP customer base,” confirms van der Sluis.

Spearheaded by the original founders of Prolyte, **Fokko Smeding** (CEO) and **Marc Hendriks** (CTO), SIXTY82 is armed with a forward-thinking approach to product development and is even more focused on

the specific needs of the Asian market. “To continue to support our customers in the way that we have been doing for so many years now, this was the only possible way forward,” says van der Sluis.

SDA customers can expect to find the same team of experienced and motivated experts, with an exciting new name and even better trussing, staging and rigging products and solutions. Also worthy of note is the fact that Sixty82 trusses are seamlessly compatible with products previously supplied by PAP. In line with their existing policies, SDA guarantees full distribution coverage to all APAC countries, delivering products and support unrivalled in quality.

“Our goal is to improve every aspect of our customers’ experience continuously. Expanding our sales network, supporting personnel, and being close to where our customers are is a key initiative towards achieving that,” says SIXTY82’s CEO, Fokko Smeding. “Having the SDA team support us is incredible and ensures that our customers in the APAC region will get the best possible treatment.”



The Sixty82 team from l-r: Cor van der Sluis, Fokko Smeding, Menze van der Sluis, Jesper van der Sluis, Xavier Drouet, Jerome Brehard, Rainier Smeding

## HI-TECH AUDIO SYSTEMS IS CLAYPAKY'S NEW PARTNER IN INDIA

As of 1 January 2020 **Hi-Tech Audio Systems** is **Claypaky's** new distributor for the Indian Subcontinent.

Hi - Tech Audio Systems Pvt. Ltd. was established in 1990. Thanks to strategic thinking, training and investment in new technology and resources, the company today has a consolidated turnover of about US\$ 10 million, which is growing every year. They are now one of the biggest professional audio - visual companies in India and have recently diversified into the entertainment lighting market.

The company present in India through 220+ professionals, in-house trained installation and service teams, and a widespread distribution network with dealers in all major states in India has built up great relationships with rental companies and has over 18 branch offices, which handle sales



L to R: Massimo Bolandrino, Rajan Gupta, Alberico D'Amato

related activities.

**Alberico D'Amato**, Claypaky Sales Director, said: "The Indian market is very large and varied. There is a great deal of interest in high technology but it is also very price sensitive. Claypaky can now offer an equally

wide, varied range of products, which can compete with all major brands in terms of final cost to the customer. At the same time, it can offer unique products on the market, such as our new XTYLOS laser-source lighting fixture and our advanced Cloud-IO

maintenance tool."

The partnership will not only be commercial: **Pankil Ahuja**, Area Manager for the region, said: "We are working with Hi Tech on a wide range of brand and product promotion activities through demos, workshops and possibly roadshows. We want to be in constant contact with the market to promote the value of quality and offer constant after-sales support."

**Rajan Gupta**, Managing Director of Hi - Tech Audio Systems, said: "We have been premium system integrator partners for major AVL (Audio, Video, and Lighting) brands in the country for many years now. The partnership with Claypaky will significantly expand our offer further. We are confident that we can work together fruitfully, and begin to see the results shortly."

## CITY THEATRICAL DMXCAT BOOSTS EFFICIENCY WITH NEW MULTI FIXTURE FEATURE

City Theatrical's **DMXcat** Multi-Function Test Tool now provides expanded functionality with the new Multi Fixture (DMX) feature, which offers lighting professionals an efficient way to turn on and test multiple DMX lighting fixtures simultaneously.

DMXcat's new Multi Fixture

feature includes a patch that can be implemented to group and control lighting fixtures together to save time and improve workflows. This patch also allows users to assign numbers to channels or fixtures, which can be useful in creating a consistent and simplified numbering system between creative and technical teams of a given production or installation

projects.

Other DMXcat improvements with the Multi Fixture feature include a new interface for the Fixture Controller app, which offers patching and grouping methods like many show consoles being used in professional lighting, for ease of use and consistency among test and control gear. The Fixture Controller

members' devices.

All of these new features are free to DMXcat users, who need only to accept the app, update to get them.

The DMXcat Multi-Function Test Tool, which includes a hardware dongle and smartphone application, allows anyone can turn on any DMX device, whether it is a simple LED PAR or a complex moving light, using



project. DMXcat users can use the patch to save, name, and re-load setups across various rigs, for use on future

app also now includes 16-bit wheels, which save the user screen space and refine the user's control.

This feature allows users to name their DMXcats, making it simpler for teams using multiple DMXcats to differentiate between various team

only their smartphone and a pocket-sized hardware dongle. DMXcat solves the problem faced by all users of modern lighting equipment: How to turn on and test DMX lighting gear without using a complicated lighting console.



## CHAUVET DJ LAUNCHES NEW LIGHTING GEAR AT NAMM 2020

CHAUVET DJ has announced the expansions of GigBAR series and Freedom line, along other fixtures outfitted for a range of mobile applications at the NAMM 2020.

a tripod and a carry bag, as well as wireless footswitch with a LCD menu that makes programming a breeze. GigBAR Move features quad colored RGB+UV LEDs, derbies, strobes, and

wireless, outdoor-rated gobo projector, **Freedom Gobo IP**. This battery powered, cool white 16W LED gobo projector has a built-in D-Fi transceiver and wireless, non-DMX control using the IRC-6 remote for more control. The fixture runs silently and has a rugged, IP54-rated die-cast aluminum housing for temporary all-weather application.

Joining the Freedom family is the **Freedom Wedge Quad**, another wireless, battery-operated, quad-color RGBA LED PAR wash light. Its triangular shape easily fits inside triangle truss systems making setup simple without sacrificing output. The new Freedom line is perfect for mobile entertainment, bands, as well as event producers, rental houses,

and fitness centers.

Also launched was the Pinspot Bar, a 4000k Natural White, six-pod bar with gels for different beam angles, a 2700k color filter, and is totally pixel mappable. Pinspot Bar mounts to both pipe and drape with its included omega brackets.

Other launches from Chauvet DJ included:

**Obsession** — A compact LED effect light that projects multicolored rotating gobos with separate color and gobo wheels.

**Scorpion Storm RGBY** — The compact, quad-color RGBY plug-and-play laser is a supplement to the Scorpion Series which projects hundreds of patterns along with customizable looks.



The flagship fixture, **GigBAR Move**, a 5-in-1, pack-n-go lighting system is now available with two 10-watt LED moving heads. This system includes

laser dynamics, making it a crowd-pleaser for mobile DJs, bands, bars, and club communities.

Another launch is the 100%

## DTS INTRODUCES THE NEW IN-CEILING MOVING HEAD RANGE AT ISE 2020

DTS, has introduced a new moving head range dedicated to the architectural industry at the ISE 2020 in Amsterdam. In 2020 DTS will celebrate their first 40 years in the professional lighting industry and they will aim at fulfilling the goal to transfer the great quality of white light and color generation to the interior design application.

The new products **Alchemy 3** and **Euphony 3** in-ceiling versions represent the perfect harmony between the two market segments and offer a pragmatic solution to adapting the creativity of the entertainment lighting to multifunctional indoor spaces.

**Alchemy 3 Ceiling** is a new-



Alchemy 3

generation LED wash light that combines powerful and superior light quality. The fixture is equipped with a high-power multi-chip 6-color LED engine. This particular LED array

Euphony 3

reaches an exceptionally uniform and wider distribution of energy throughout the visible spectrum - named by DTS High Quality Spectrum (HQS). Thus, ALCHEMY 3 Ceiling is

able to deliver a superior white light quality and generate an extra-wide gamut of pastel-like colors with rich warm nuances.

**Euphony 3 Ceiling** is a LED wash light featuring 7 RGBW LEDs, a wide zoom and an efficient optical system. EUPHONY 3 is a versatile moving head suitable for uniform projections on surfaces, from wide Wash to PC Beam. Due to its perfect color mixing, 16 gel filter emulations, and a custom soft frost filter, it can provide high standard performances. Euphony 3 guarantees perfect linearity in the increase / attenuation of brightness of multi-chip LED sources, even at low dimming levels, thanks to the 'Hi-Q Dimming' technology.

## CITY THEATRICAL NOW SHIPPING QOLORFLEX 5X2.5A MULTIVERSE DIMMERS

City Theatrical's QolorFLEX 5x2.5A Multiverse Dimmers, which are constant voltage, five-output, miniature dimmers that can be controlled wirelessly, are now available through City Theatrical

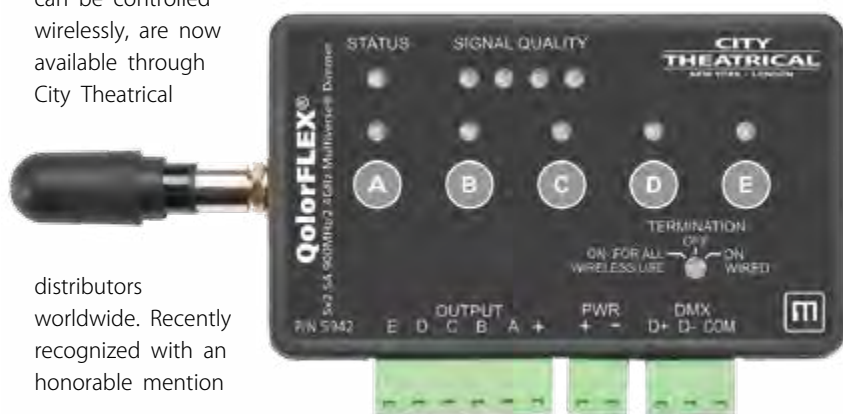
in the Lighting - Control category at the LDI Show 2019 Best Debating Product Awards, **QolorFLEX 5x2.5A Multiverse Dimmers** have built a

foundation for City Theatrical's family of miniature low voltage wireless dimmers with Multiverse wireless DMX/RDM connectivity.

Available in dual band 900MHz/2.4GHz (P/N 5942) or 2.4GHz band only (P/N 5943), QolorFLEX 5x2.5A Multiverse Dimmers be controlled wirelessly using City Theatrical's Multiverse wireless DMX/RDM or SHoW DMX Neo wireless DMX/RDM technology, or with wired DMX. These dimmers provide 20-bit PWM resolution and 8-bit or 16-bit control for extremely smooth dimming at the low end of the dimming curve.

QolorFLEX 5x2.5A Multiverse Dimmers use detachable input and output connectors to make wiring easy. Configuration is performed using RDM, such as with a City Theatrical DMXcat Multi-Function Test Tool, or with City Theatrical's USB Configuration program for PC/Mac. A mounting bracket is included with the Dimmer to allow easy mounting to scenery.

QolorFLEX 5x2.5A Multiverse Dimmers are designed and built in the USA by City Theatrical. They pair perfectly with QolorFLEX 5-in-1 LED Tape for ideal use in props and costumes, or for areas where space is a concern.



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# Touring Console

*Spotlight on Touring Consoles for live performances launched in 2019*

## Avantis – Allen & Heath

Avantis puts next-generation technology in a 64 channel / 42 configurable bus console, with dual Full HD touchscreens, a super-flexible workflow with Continuity UI, extensive I/O options, add-on processing from Allen & Heath's flagship dLive mixing system.

### Main features include:

- 96kHz 64 channel / 42 bus digital mixer
- XCVI FPGA core with ultra-low latency (0.7ms)
- wdPack option, including 16 Dyn8 engines
- 12 RackExtra FX slots with dedicated stereo returns
- 16 DCAs
- AMM (Automatic Mic Mixer) up to 64 channels across 1, 2 or 4 zones
- Fully assignable layout
- 144 fader strips (24 faders, 6 layers) with optional dedicated master section
- SLink port for connection to Remote I/O Expanders and the ME Personal Mixing System
- 12 analogue XLR Inputs / 12 analogue XLR Outputs
- 1 Stereo AES In / 2 Stereo AES Out
- 2 I/O Ports, both capable of 128x128 operation at 96kHz
- User configurable rotary controls
- 24 assignable SoftKeys
- Comprehensive metering with multi-point peak detection
- Internal storage for stereo playback and recording
- USB stereo playback
- BNC Word Clock

### Technical Specifications:

- Mic/Line XLR Inputs: Balanced XLR, +48V phantom power
- Mic/Line Preamp: Fully recallable
- Input Sensitivity: -60 to +15dBu
- Analogue Gain: +5 to +60dB, 1dB steps
- Maximum Input Level: +30dBu (PAD in)
- Input Impedance: >4kΩ (Pad out), >10kΩ (Pad in)
- Digital Inputs: AES3 2 Ch XLR, 2.5Vpp



- balanced terminated 110 Ω SRC range 24 bit, 32k - 192kHz, with bypass option
- Dynamic Range: 109dB
- System Signal to Noise: -92dB
- Frequency Response: 20Hz - 30kHz (+0/-0.8dB)
- THD+N (analogue in to out): 0.0015% @ +16dBu output, 1kHz 0dB gain
- Internal operating Level: 0dBu
- Analogue XLR Outputs: Balanced, Relay protected Output Impedance
- Output Impedance: <75Ω
- Nominal Output: +4dBu = 0dB meter reading
- Maximum Output Level: +22dBu
- Digital Outputs: AES3 2 Ch XLR, 2.5Vpp balanced terminated 110 Ω 96kHz sampling rate, globally switchable to 48kHz, 44.1kHz
- Operating Temperature Range: 0 deg C to 40 deg C 32 deg F to 104 deg F
- USB Audio playback: Mono/stereo.
- WAV files, 16/24bit, 44.1/48/96kHz, MP3 files, FLAC files
- Width x Depth x Height (Boxed): 1100 x 850 x 425 mm 43.3" x 33.5" x 16.7"
- Weight: 34kg 75lbs

## Behringer Wing

The Behringer WING is a 48-stereo-channel digital mixer. The WING control surface utilizes a large capacitive touchscreen interface with touch-sensitive rotary controls for a new ease of operation.

### Main features include:

- 28 stereo buses
- 24 smooth-feeling motorized 100mm faders
- 10.1" capacitive touchscreen, adjustable display wheel, and rotary controls
- 8 MIDAS Pro mic preamps and MIDAS outputs
- "Plug and play" remote I/O connectivity for up to 144 input and output signals over 3 AES50 ports
- AES50 networks compatible with MIDAS M32 and Behringer X32 mixers
- Optional expansion cards supply Dante, SoundGrid, or MADI support
- Built-in 48-in/48-out USB audio interface with HUI and Mackie Control DAW remote functionality
- Each channel can be either mono, stereo, or mid-side
- 16 true-stereo processors with effects from Pultec, SSL, SPL, Neve, Focusrite, dbx, Universal Audio, Elysia, and Empirical Labs



- Auto Pilot supplies fast and dependable automixing with 2 groups of gain sharing
- Dual solo/monitor buses per channel for monitoring over phones/IEM and/or floor wedges
- Support for binary and OSC communication for remote operation
- WING Co-Pilot tablet app enables you to label or set parameters while patching from the stage

### Technical Specifications:

- Channels: 48 Stereo (40 x channel, 8 x aux)
- Inputs - Mic Preamps: 8 x XLR-1/4" combo (mic/line)
- Phantom Power: Yes
- Outputs - Main: 8 x XLR
- Inputs - Digital: 1 x XLR (AES/EBU), 3 x EtherCON (AES50 SuperMAC), 1 x XLR (Stage CONNECT)
- Outputs - Digital: 1 x XLR (AES/EBU), 3 x EtherCON (AES50 SuperMAC), 1 x XLR (StageCONNECT)
- Send/Return I/O: 8 x 1/4" TRS (aux in), 8 x 1/4" TRS (aux out)
- Busses/Groups: 8 x Stereo Matrix, 4 x Stereo Mains, 16 x Aux Stereo Bus
- Inserts: Dual Inserts per Bus, FX Insert Slot
- MIDI I/O: In/Out
- Data I/O: 2 x Ethernet (control/audio network)
- Remote: 1 x 1/4" (GPIO 1-2), 1 x 1/4" (GPIO 3-4)
- USB: 1 x Type B, 1 x Type A
- Computer Connectivity: USB 2.0, 24-bit/48kHz (48 x 48)
- I/O Expansion Slots: 1 x Expansion Port (24-bit/48kHz)
- Headphones: 2 x 1/4"
- Faders: 24 x 100mm Motorized
- A/D Resolution: Up to 24-bit/192kHz
- EQ Bands: 6-band Parametric EQ (channel), 8-band Parametric EQ (bus), Additional EQs and Configurations
- Effects: 8 x Premium FX Stereo Processors, 8 x Standard FX Stereo Processors, 5 x Variable Plug-in Slots
- Signal Processing: Full Dynamics Processing
- DAW Control: Yes (HUI, Mackie)
- Screen: 10" Capacitive Touchscreen, Ad-

justable Swivel

- Storage: 2 x SD Card Slot (dual 32 track max)
- Height: 7.9"
- Depth: 22.6"
- Width: 34.3"
- Weight: 52.8 lbs.

## PreSonus StudioLive 32SC

The StudioLive 32SC is a compact, rack-mountable 32-channel digital mixer that can be quickly and easily scaled for 16-, 24-, and 32-channel applications.

### Main Features include:

- Dual-core PreSonus FLEX DSP Engine
- State Space-Modeled Fat Channel compressor and EQ plug-ins
- FLEX FX multi-effects processor with 4 slots to load legendary reverb emulations and delays with 4 dedicated effects buses
- 128-channel (64x64) recording over USB
- Onboard multitrack SD Card recorder with true Virtual Soundcheck
- AVB Networking onboard (64x64) to connect with other mixers, NSB-series stage boxes, EarMix 16M personal monitor mixers
- Per channel digital patching from any analog, AVB, USB, or SD Card source
- DAW Control (Advanced Studio One control integration/MCU emulation for Logic/HUI emulation for Pro Tools)
- Expandable, plug-in processing with vintage EQ and compression options on every input channel and bus
- 16 FlexMixes (aux mixes, subgroups, or matrix mixes)
- 16 mic/line inputs with recallable XMAX preamps
- 17 touch-sensitive, motorized faders



### Technical Specifications:

#### Format

- Number of channels: 32
- Busses/groups: 26
- Aux sends: 16

#### Inputs

- Total inputs: 40
- Mic preamps: 32
- XLR/TRS combo jacks: 32
- RCA in: 1 (pair)
- USB: 2.0 Type B

#### Outputs

- Total outputs: 15 (12 FLEX)
- XLR out: 6 FLEX, 2 main, 1 mono
- 1/4" out: 4 TRS
- RCA out: 1 (pair)
- AES / EBU: XLR Male

### Other Connectivity

- Connections: USB, 2.0
- Headphone output(s): 1
- Bluetooth 4.1
- Word-clock I/O: No
- I/O expansion: No

### Equalization

- Type: 10 plugins
- EQ bands: Various types
- Master graphic: No

### Other

- Width: 17.59"
- Height: 6.51"
- Depth: 22.97"
- Weight: 23.15 lb.

## Solid State Logic L550

Solid State Logic's L550 is powered by Tempest, a fourth generation digital audio platform and features a total of 288 processing paths, 36 matrix outputs and 48 VCAs, assignable to any of the 36 + 2 faders on the control surface.



### Main Features include:

- 96kHz operation
- 19" multi-touch screen control with assignable hardware controls
- Live Channel architecture
- Live local I/O and Stageboxes to deliver SuperAnalogue performance
- frequency response within 0.05 dB from 20 Hz to 20 kHz and THD of 0.005%
- Channels and Stem Groups
- Color Function for visual cues
- Unique Eyeconix display enables bitmap images to be displayed
- External screens can be connected directly
- Fader tiles with 12 fader strips each
- Layer and Bank Keys with LCD displays

### Technical Specifications:

- Weight: 85Kg (187lbs)
- Width: 1,191mm (46.9")
- Power Supply: Two redundant as standard
- Main touch-screen: 19" 1,500 Nits
- Channel Control Tile: Standard
- Maximum I/O: up to 1136 in /out
- Local Dante: Optional 32x32 redundant pair
- X-Light: Optional redundant pair
- Blacklight II: Optional redundant pair
- MADi FX loop: Optical in/out x 1
- MADi ports (coax/optical): 16 (8 redundant pairs)
- Local AES/EBU I/O: Up to 8 pairs (with SRC)
- Local analogue I/O: 32 mic/line, 32 line out
- Sample rate: 96 kHz or 48kHz

- FX types: 45+
- FX Slots: 96
- VCA's: 48
- Matrix: 4 x 32 inputs / 36 outputs
- Fader Tiles: Three (36 +2 faders)
- Paths 288 (240 full, 48 dry)

## Waves eMotion LV1 Proton

The eMotion LV1 Proton system includes the eMotion LV1 16-channel live software mixer, a SoundStudio STG-1608 SoundGrid-compatible stagebox, a SoundGrid Proton server, the Axis Proton Waves-optimized computer, a 24-inch Dell touchscreen, a 1U rack shelf, an 8-port network switch and network cables, plus three plugins specifically designed and optimized for live sound: eMo F2 Filter, eMo D5 Dynamics, and eMo Q4 Equalizer.

### Main Features include:

- Complete cost-effective mixing solution
- eMotion LV1 16-channel (mono/stereo) mixer with Waves eMo plugins
- SoundStudio STG-1608 stagebox (16-in/8-out)
- SoundGrid Proton Server
- Axis Proton Waves-optimized computer
- 1U Rack Shelf
- 24" Dell touchscreen
- 8-port network switch and CAT6 Ethernet cables
- Includes MyMon - a mobile app for stage monitoring control (coming soon)



The touch-optimized eMotion LV1 software mixer features 16 mono/stereo channels, each with a plugin rack that can host up to eight SoundGrid-compatible plugins for real-time processing.

The included SoundStudio STG-1608 is a sturdy SoundGrid stage box, featuring 16 mic/line inputs with high-end preamps that can be controlled directly from the LV1 mixer.

The Axis Proton computer is optimized to handle eMotion LV1's processing power and perform in challenging environments.

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





**U**2 have come and gone. The Irish Four Leaved Clover brought with them all the magic we attribute to magical Irish creatures.

Onstage the band was in their element. They took their fans on a smooth fluid ride through one of the greatest Rock albums ever fashioned and then ran us through landmark moments on their journey from their beginning's to our hospitable city.

Supporting them was a cast of some of the finest and most committed stage hands I have seen working together.

Backstage the team worked as effortlessly as the Band were on stage. Each complex part assembled perfectly and slotted in so easily. Every guy knew his job backwards. And waited around casually seemingly aimlessly until he gently steeped forward added his unique skill to the stage 'compilation' if that is an appropriate word.

Each piece of set was designed to be piled or lifted into or onto each other so cleverly it seemed organic and elementary. Simple logic delivered with extreme engineering. It was a joy.

Compare that to the usually chaotic production scenes we see in our country. In our defence, the U2 stage was designed by geniuses harnessing the full benefits of computerised calculation and design. And each part practiced over the run of the shows. In India most large scale productions are One Offs.

Rarely is the entire production designed by a Single agency. Usually the set designer puts forward a concept drawing and hands it over the production to build and then the light sound and video boys fit their equipment into wherever they find space. Hot heads, fraying tempers, burning sun and endless batata vadas and chai keep everybody going and together.

Somehow it all gets done and everybody goes home happy. All the temporary angst calmed down by sheer exhaustion or the cold beer of the happy after party.

Two extreme ends of the spectrum. Work ethic and ap-

proach to the job. Super organisation and Super chaos both leading to fun, memorable moments for the audience.

Backstage is a crazy life but it's addictive. The adrenalin rush must be experienced. The short and frantic journey from the first truck driving in to the clean up after is both exhausting and exhilarating. Creativity, "Jugad" (is that the same thing) meet discipline and practice. The seemingly mundane spiced with some of the most colourful characters you will ever find gathered in one tight place.

I have never met a stage technician who is in it for the money. There is something within him or her that is addicted to being there. That's the only way I can describe it. Do you have a better reason?

Over the years I have noticed a general calming down of the backstage atmosphere. As the work is getting more complex – there is

body else moved or we were threatened with bad sound leading to total collapse. With the advent of flying rigs the stage guys became a little more friendly to the trussing guys. The set guys breathed a sigh of relief as their beautiful stage was not boxed by ugly carpeted boxes. Three sets of happier people thanks to technology.

As LED screens took over and we got free of the demands of projection, the lighting guys got freer to experiment with more dazzling visuals. This in turn drew in visual artists and video craftsmen who brought with them another language and dimension to live shows.

Apparently the LED screen assembled for the U2 concert was the largest LED screen ever assembled for anywhere. And we in Mumbai got to see it. Fitting for Bollywood. It was big and loud and filled with amazing visuals. And

**Each piece of set was designed to be piled or lifted into or onto each other so cleverly it seemed organic and elementary. Simple logic delivered with extreme engineering. It was a joy.**



U2 Joshua Tree Tour India; Pic Courtesy: Ross Stewart

greater compartmentalisation of each function. This inevitably ends up meaning a greater interdependency of each function.

Earlier the Speakers were stacked on independent platforms on either side of the stage. Sound techies were rigid on size and position and heights. If the black boxes got in the way of sightlines and other equipment – it was just Too bad. Every-

for me the best part was the sense of 'We've only just begun'.

Do I sound like an old cynic when I feel what we've pretty much done with huge leaps of sound and lighting tech – for at least a while. Sure there will be incremental steps but I don't expect to see anything like the huge leaps I expect out of video technology over the next few years.

I really would not be surprised

if someday soon the entire set, staging and periphery will be made up of video pixels embedded into some magical invention. Probably motorised and computer controlled. Which brings me to another world that I expect will dominate Set Design.

Motion Control! How long before the U2 screen gets picked up, split into pieces and distributed over the entire stadium? Science fiction - today. But I'm certain some kid in some garage is sitting there wondering 'Why Not?'

That's just the traditional technologies. How about some other disruptive technology comes in and make everything we know redundant. Perhaps Robots?

What if you entered a stadium and there was nothing. Just nothing. And then some strange sound creeps up (Those damn sound boys are not going anywhere – No matter how much everything else gets disrupted). Suddenly this robot rises up. All 50 feet of it. Shakes himself awake and proceeds to tromp over the entire stadium giving every seat a front row view all the while doing some amazing things or perhaps simply whispering a quiet mesmerising version of an age old fairy tale.

Backstage – the possibilities are limitless. Grab your boots, clear your minds and join in the fun.

I promise you the ride of a lifetime.

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



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## "MUSIC PRODUCTION & THE RISE OF REGIONAL MUSIC

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

The last few years have witnessed an exponential growth in the range of music released by Indian artists. From Marathi or Bengali rap music to rock music in Malayalam, regional flavours are trending and are pushing boundaries both in terms of song-writing and production. Genres are seeing an expansion in terms of audiences, and music styles are becoming more accessible since they are married with local languages. The biggest advantage that an artist has in focusing on region based music is unlocking new audiences and exposing them to styles that would otherwise sound alien to them. The relentless momentum of regional music is further reflected by the fact that popular streaming platforms have launched their own language-based channels and playlists. Everyone from *iTunes*, *Spotify*, *Gaana*, *Hungama* and more are facilitating the growth of regional music through curated playlists and dedicated channels. Such music that is targeted at say, Marathi speaking or Hindi speaking audiences, can result in amassing a massive number of streams through these online music platforms. This is an integral part of the industry ecosystem that allows the regional genres to flourish and even reach new audiences around the globe. A perfect example of this is the rise of Punjabi Hip-Hop and Punjabi Bass popularised by the likes of **Badshah**, **Yo Yo Honey Singh**, **Guru Randhawa** and others. Such artists have achieved stardom and popularity at breakneck speeds and their popularity has skyrocketed over just a handful of releases. This month we will take a look at popular Punjabi releases, break them down in terms of production and song-writing in order to understand what made them different, and how they become so popular.

The current trend can be traced back to 2011 when Yo Yo Honey Singh released a single along with **Diljit Dosanjh** named *Lak 28 Kudi* that reached number 1 on the BBC Asian charts. His full length *LP International Villager* that released the same year has since become the highest grossing Punjabi album of all time. With songs like *Angrezi*

*Beat*, *Dope Shop* and *Gabru*, the album became Singh's calling card in Bollywood and saw a flood of offers to license his music for films, which of course became a trend in its own right. His formula for success was a combination of infectious Punjabi rap along with electronic beats that were mixed in typical EDM style. Now EDM was also reaching its peak popularity at the time, and that genre was characterised by heavy low-end mixes with a big focus on kick and bass. They also feature intense build

Coming from a more traditional background than Honey Singh, Diljit Dosanjh truly fused the contemporary styles with his roots and culture. His ability to write catchy hooks opened the door to Bollywood directors casting him not only as the lead, but also as the singer for most of his movie's soundtracks. What made him different was his dialect of Punjabi and the authenticity in its delivery. He captured the essence of folk and re-created it with contemporary music production. He brought out

**The 808 kick drum that defined hip hop in the 90s is a massive sub bass sound with a punchy attack that was synthesised by the Roland TR 808 machine. It became the staple for many hip hop producers and also the signature sound for the genre**

ups and drops with the beats, and feature catchy melodies voiced by reverb-soaked synthesizers. The style blended seamlessly with Punjabi vocals, and the result was highly-energetic dance music that just sounded different to its predecessors. What made it different was the mix, and the fundamental change was that the focus of the mix was now the kick drum and not the vocals. Vocals are usually the cornerstone of most music mixes, however in EDM they become second to the kick and bass elements. These mixes were being built around the kick and rhythm elements rather than being built around the vocal. This technical shift allowed for dance music to become louder and more hard hitting than before. This is what attracted Bollywood to Singh's music, the ability to make item number songs really pop out and elevated in terms of energy. All composition and programming on the album was done by Honey Singh, although some of the lyricists included **Badshah** and **Raftaar** who then proceeded to take centre stage with their own music down the line.

all the nuances and stylisations of Punjabi along with playful slang that just made his audiences connect with him and his music. With album releases dating back to 2000, his discography is large and he continues to release music alongside his movies that amass millions of views in no time at all.

Advancing and evolving music production and mixing techniques became the reason behind the success of such Punjabi artists. Finding the right balance of ideas and techniques became a quest for a number of artists that followed in the wake of Singh and Dosanjh. Punjabi artists embraced this new marriage of EDM with their culture and the number of artists releasing such music was on the rise. With a front row seat to Honey Singh's workflow, Badshah is another cornerstone in Punjabi music. His formula in essence was similar to Singh's, however switching up the ingredients to those that actually defined a whole era of music and started the hip-hop movement. Collaborating with Dosanjh, Singh, Manj Musik, Aastha Gill and more,



Badshah's style immediately had an element of catchy commerciality with pure punjabi flavours. Composing and producing tracks like *Wakhra Swag*, Badshah unleashed the power of the cornerstone of hip hop production and combined it with Punjabi. The 808 kick drum that defined hip hop in the 90s is a massive sub bass sound with a punchy attack that was synthesised by the Roland TR 808 machine. It became the staple for many hip hop producers and also the signature sound for the genre. With its fundamental harmonic below 60Hz, an 808 kick drum takes up a lot of space in the acoustic range of any mix. It demands headroom both in terms of frequency and loudness in order to shine and deliver its punch. Most Punjabi and Bollywood music was heavily layered with instruments struggling to breathe and find space. Badshah changed that with *Wakhra Swag*, which was the most minimal yet heavy mix that been heard till then. With only a simple vocal and few layers of percussion and melodic elements, the 808 in the track did its job of delivering a bass heavy Punjabi dance experience, the likes of which had not been heard before. Badshah also introduced hip hop nuances into Punjabi slang, and further facilitated the merging of the two cultures.

The rise of such artists and their



**LP International Villager** became the highest grossing Punjabi album of all time. With songs like *Angrezi Beat*, *Dope Shop* and *Gabru*, the album became Honey Singh's calling card in Bollywood and saw a flood of offers to license his music for films

innovative styles sparked off a whole generation of Punjabi rappers that started entering the limelight. While

the commercial platforms enabled a handful of them to rise to stardom, the indie scene was witnessing the

emergence of the genre. And soon a handful of artists would start to blur the lines between indie and commercial, allowing them to crossover between the two faces of the music industry that otherwise co-existing in parallel and seldom intersect. Artists like **Guru Randhawa**, **Raftaar**, **Ikka** and producers like **Manj Musik** and **Deep Jandu** continue to propel this genre further, releasing music with big budget films as well as having their share of indie releases. The quality of the production from the underground and indie scene is no less than the commercial. Producers and artists like **GD47**, **Lil Golu**, **Dr. Love** are pushing production quality and keeping it consistent with industry standards.

With Hip Hop now becoming a craze across India, Punjabi rappers have planted their flag and are definitely here to stay, if not define the future of the trend.

*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.*

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## DENON DJ LAUNCHES NEW PRIME CONSOLES AND MEDIA PLAYERS

Denon DJ has announced the introduction of new **SC6000** and **SC6000M PRIME** professional DJ media players, new **PRIME 2** and **PRIME GO** smart DJ consoles and **X1850 PRIME Mixer**.

Both standalone media players,

The technologically-advanced, DJ-booth centerpiece **X1850** mixer represents an incredible technical and creative experience for 4-channel, pro-grade audio, mainstage DJ mixing.

The all-metal built **X1850** 4-channel



Denon DJ Prime GO



Denon DJ Prime-2



Denon DJ SC6000



Denon DJ SC6000M



Denon DJ X1850 PRIME Mixer

the SC6000 and SC6000M PRIME, feature a 10.1" touchscreen, Wi-Fi streaming, internal HDD drive bay, large 8.5" jog-wheel, plus performance pads with sophisticated design illumination.

mixer has multi-assignable digital and analog inputs to handle any mainstage DJ gig. With a defined high-visibility EQ section, 16 enhanced Pro-Club BPM Effects, Filter/Sweep and new FX Quantize control, DJs can easily sculpt beat-grid accurate sonic elements. The X1850 channel faders have positive tension, smooth throw, and optimal stability. In addition, dual USB inputs and two dedicated mic channels add to the essential DJ workflow features with the crisp, OLED screen handling FX parameters and customizable performance options.

The SC6000/M and X1850 bring advanced control of Serato DJ Pro. This enables touchscreen navigation and flexible hardware control of all Serato DJ Pro's library and performance features.

"With the introduction of the SC6000 and SC6000M, Denon DJ reaffirms its position as 'the company that listens', representing

an ever-evolving philosophy to deliver flagship DJ technology to the professional DJ booth," said Denon DJ's Creative Director, **Paul Dakeyne**. "Both units have creatively advanced workflow and feature sets, plus on-board Wi-Fi streaming, ensure DJs will always have the greatest catalogs of music available to them. Connected to the totally uncompromising features, build quality and performance power of the X1850 mixer, DJs can be sure they truly embrace the future".

The PRIME 2 and PRIME GO share the ultimate touchscreen interface experience, standalone Wi-Fi music streaming and are powered by the lightning-fast ENGINE OS platform. PRIME GO adds a rechargeable lithium-ion battery to provide extreme portability. Together, they represent the pinnacle of fully-featured, no-compromise pro-level gear for mobile and club DJs.

Along with their 7" HD touchscreen UI experience, PRIME 2 and PRIME GO bring feature-rich, premium-level control, and creative

workflow for DJs. These include a class-leading timestretch and key-shift algorithm, the ability to play uncompressed music file formats plus on-board music management, track preview, internal file analysis and 'direct to media source' set recording too.

"With the introduction of PRIME 2 and PRIME GO, we're beyond excited that the Prime Series, powered by ENGINE OS, is now truly open to the widest demographic of pro-mobile DJs" said Paul Dakeyne. "Both units are Wi-Fi enabled and more than compact enough to be carried to any location, but workflow feature-packed to handle any small, medium, or large mobile/club gig or event. Together, PRIME 2 and PRIME GO usher in an exciting new era of accessible, no-compromise, tech-powered DJ performance!"

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STUDIO



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# PIONEER DJ CHANGES COMPANY NAME TO ALPHATHETA CORPORATION

The company is changing their name from Pioneer DJ Corporation to **AlphaTheta Corporation**. Their brands and brand names, including Pioneer DJ, will not be affected by this change. Pioneer DJ Corporation has changed its company name to AlphaTheta Corporation as of January 1, 2020. The company is updating their corporate name to better reflect their values and vision. The change

is not related to any merger, sale, or reorganization.

A statement released from the company said, "We take great pride in our commitment to the music industry, and we've chosen our new company name, AlphaTheta Corporation, based on our passionate vision to innovate, inspire, and entertain".

Why Alphatheta?

# Pioneer Dj

Music can guide the human brain into extremely powerful states of mind.

Peak human experience can be enhanced with an optimal balance of creative music, superior sound technologies, and group coherence.

AlphaTheta refers to the brain wave frequencies achieved in these peak states. Our vision is to use our innovative technologies to enable and enrich these peak moments.

AlphaTheta enables you to go Beyond the Music.

## NUMARK INTRODUCES DJ2GO2 TOUCH – POCKET DJ CONTROLLER

**Numark**, has announced the introduction of its new **DJ2GO2 Touch**, the successor to their incredibly popular DJ2GO2. Both beginners and professional DJs alike get the full benefits of a pro controller shrunk to fit in their pockets.

DJ2GO2 Touch is a portable,

The Numark DJ2GO2 Touch does not require manufacturer specific drivers on either Mac & Windows operating systems. Simply connect the device to your PC, and launch the latest version of Serato DJ Lite.

DJ2GO2 Touch also features future-proof music streaming capability with TIDAL and SoundCloud as

by nudging the side of the capacitive touch jog wheel. It is perfect for all DJ styles to prep for gigs, perform at small events, as a space-saving extra setup for big events or as a great backup to a main setup.

### Serato DJ Lite Ready

Out of the box, DJ2GO2 Touch comes with Serato DJ Lite and is upgrade-

- Portable two-channel DJ controller for Serato DJ Lite (software included)
- TIDAL and SoundCloud capability included
- Built-in audio card with headphone cueing to create the perfect mix
- Song navigation and channel and master gain controls
- DJs can map DJ2GO2 Touch with other popular DJ software
- Multiple Pad Modes with cueing, looping and sample triggers
- Fits perfectly on top of any laptop
- 1/8-inch headphone output
- 1/8-inch main output

"Our DJ2GO2 Touch is pure DJ fun in an amazingly convenient, grab-and-go size," said **Chris Roman**, Senior Product Manager for Numark. "You can do almost everything you can do on a full-size controller with the DJ2GO2 Touch, and even beginner DJs will want to get in on the action! With its capacitive touch jog wheels, Serato DJ Lite and compatibility with other DJ software, every DJ—from bedroom to mobile—will find the DJ2GO2 Touch a fun and useful DJ tool."



pocket-sized DJ controller with the ability to scratch with capacitive touch jog wheels. With a built-in sound card and Serato DJ Lite-ready, it fits perfectly in front of any laptop gives the DJ the ability to perform hot cues, looping and sampler effects. DJ2GO2 Touch continues the successful path of its predecessor DJ2GO2 and now DJs can scratch!

part of Serato DJ Lite. This degree of streaming music power is unprecedented in this controller category and sets DJ2GO2 Touch apart from any unit on the market.

### The Power of a Full-Size Controller

The DJ2GO2 Touch has power like a large DJ controller. Beginner and professional DJs can perform light to heavy scratches and blend the mix

ready to the full version of Serato DJ Pro. For first-time DJs, Serato DJ Lite now comes with demo music, providing an easy on-boarding tutorial that will walk you through the basics so anyone can start DJing right away.

### Key Features

- Capacitive touch jog wheels for scratching and mixing

## PIONEER DJ LAUNCHES 6 - CHANNEL DJM-V10 MIXER

Pioneer DJ has launched a brand new six-channel mixer, the **DJM-V10**. The DJM-V10 is built to enable the most creative DJs to create original soundscapes. This 6-channel unit produces warm audio with energy and presence, and it's loaded with unique features. The mixer is built in a 4-band EQ to enable DJs to independently control distinct elements of music, e.g. kick drums and bass.

The DJM-V10 has adopted studio-quality 96-kHz/64-bit mixing and dithering processing within the DSP,

as well as 32-bit high-quality A/D and D/A converters. The six channels allow plugging in everything from CDJs and turntables to samplers, synths, and drumming machines. The 3-band master isolator allows to effortlessly control the tone of the entire mix. It features new boost/cut curves and adjustments to the crossover frequencies and other parameters. The mixer has dual headphones output which

allows plugging in two headphones at the same time with independent monitoring.

Each



headphones output has its own Cue/Master Mix control and level adjustment knob. Moreover, with booth EQ, the sound can be tweaked from the monitor speakers to prevent ear fatigue during long sets.

The DJM-V10 comes with built-in support for a few devices, apps, and services like rekordbox, TRAKTOR PRO 3, Serato DVS, and Serato DJ Pro (coming Soon), RMX-1000 for iPad via MULTI I/O and the DJM-REC app for iPhone or iPad to upload sounds to cloud services or live-stream sets.

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## KORG UNVEILS NEW NOISE-CANCELLING DJ HEADPHONES

KORG's NC-Q1 is a brand new Bluetooth headphone with high definition sound and noise-less monitoring, state-of-the-art Active Noise Cancelling, incoming sound attenuation, and an array of smart features. With this unique blend of Noise cancelling technology and high-quality sound, the NC-Q1 is perfect for DJs, drummers, and front of house engineers.

### ANC (Active Noise Cancelling)

The NC-Q1 features an advanced Noise-Cancelling system, utilizing both Feed-forward and Feedback Active Noise Cancelling technology that is tuned to withstand and process the high levels of sound found in many monitoring environments. Unlike most other Noise Cancelling headphones, the NC-Q1 has microphones on both the inside and outside of the ear cups that accurately suppress a wide range of frequencies and auto-adjust according to the external sound



environment.

Its powerful attenuation function allows the NC-Q1 to work better at

minimizing high noise levels in noisy environments.

Besides effective noise cancelling in extremely noisy environments, the NC-Q1 is ideal for use in a DJ booth. The "Smart Monitoring" and "Sound Enhancing" functions allow users to customize their hearing of external sounds by selecting an EQ preset, adjusting the volume balance, and even choosing the ear from which to monitor (right, left, or both). Cue and monitor external sounds without having to remove any part of the headphones, to maximize your performance while protecting your ears.

### Pristine sound and professional performance

The NC-Q1 features a wide frequency and harmonic response along with a wide dynamic range for a precise, clear, and well-balanced sound with a 41mm custom PEEK high-grade film diaphragm for

excellent sound. The adaptable ear cushions and over the ear cup provides not only excellent noise isolation, but also the highest comfort.

Made to the highest professional standards, these headphones reproduce High resolution audio and with two (left and right) AUDIO IN physical inputs the NC-Q1 headphones can be connected to any audio player device, mixer or audio interface (Stereo minijack cable and 3.5mm→6.35 mm stereo converter plug included).

### Full-Connectivity, Easy control

Compatible with a wide variety of Bluetooth codecs, the NC-Q1 also gives users remote access to both Google Assistant and Siri. "Multi-Function switch" makes it is easy to activate play / pause / rewind / fast forward / skip functions. The smart transport control function will automatically stop when the headphones are removed and restart automatically when put on again.

## RANE ANNOUNCES NEW SEVENTY MIXER

*The SEVENTY's solid steel build, new lighter MAG FOUR faders with external tension adjust provide ultimate performance for any battle DJ*

RANE has announced the introduction of their new SEVENTY mixer, the latest edition to their solid steel, battle-ready Serato DJ mixer family. Built from the same intricate DNA that makes every RANE product a standout, the RANE

SEVENTY's intuitive layout takes a forward-thinking, yet familiar approach to performance possibilities. The RANE SEVENTY is ready to take DJ performances to the next level in a portable, travel-ready battle mixer.

In addition to a new intuitive layout, the SEVENTY introduces three new ultra-light MAG FOUR faders. This new design is our lightest yet and delivers all our high-quality patented



technology, along with an external crossfader tension-adjust. The six radio-style FX buttons give DJs instant access to RANE's internal post-fader Flex FX as well as Serato DJ Pro's software FX. The SEVENTY's dedicated loop sections and Instant Double buttons are intuitively laid out for the most demanding of turntablists, while the dual-layer performance pads give inspiring and creative options for any routine. With 180° rotatable metal paddles, dual microphone inputs and an industry-leading signal-to-noise ratio of 114 dB, the RANE SEVENTY raises the standard of DJ performance to new heights in its category.

### SEVENTY Winning Highlights

- Intuitive High-Performance Layout
- (3) MAG FOUR contactless faders
- External crossfader tension-adjustment control
- Solid steel construction & front guard handle protection
- (6) Dual post-fader internal FLEX FX engines
- Serato DJ FX controls

- Independent pad modes for each channel
- (32) Midi-Assignable Pads
- Browse and track select controls
- Intuitive Instant Double buttons, toggle as Sync On-Off or Silent Cue mode
- Dedicated loop controls
- Dual diecast aluminum 180° rotatable FX paddles
- RANE TWELVE Connection Hub
- Dual microphone inputs
- Industry leading signal-to-noise 114dB
- Dual USB connections for DJ handoffs
- 16 Akai Professional MPC performance pads
- Packed into a solid, portable mixer, the SEVENTY has the toughness for week-in/week-out touring, satisfying even the most demanding DJs who insist on no-compromise durability, functionality, and expressive creativity.

# 11 QUESTIONS WITH **Kalle Hvidt Nielsen**

**CEO, DPA MICROPHONES**

***Kalle Hvidt Nielsen, CEO at DPA Microphones since September 2016 gained extensive knowledge of developing cutting-edge technologies in audio, in his previous positions as CEO at Bang & Olufsen A/S and Brüel & Kjær Sound & Vibration Measurement A/S. Here, he fields 11 questions on acquired legacies from these companies, milestones in DPA history, DPA's relentless focus on innovation, business transformation and overall IP creation, the Indian pro-audio market and more.***

**DPA has been producing microphones for live sound, recording studio, film and broadcast and the company is especially known for miniaturization. Can you tell us a bit about this technology, what makes it unique, and which specific market segments is DPA targeting with the miniature mics?**

DPA Microphones is a spinoff from the world's largest sound measurement company, **Brüel & Kjær**, so our legacy is built upon extremely precise recording mics (pencil mics). In 2005, we merged with a sub supplier from the hearing aid industry. This cooperation gave us the necessary technology to shrink the form factor of our high-quality pencil mics while keeping the audio quality. The introduction of miniature mics that performs like high-end studio mics revolutionized the use of microphones in broadcast, film, theater, live and houses of worship.

**What is your global standing in the professional microphone industry?**

Microphones are a very small part of the cost of the full audio system — typically about 1% — yet it is critical for the performance and output of the entire system. More and more audio engineers understand that the most economical way of improving the sound system is to use the best mics possible. This way, the first part of the audio chain is reproduced clearly and in the highest possible quality. This drives our strong growth; we're the supplier of the best performing microphones in the market used by top professionals.

**What is the technology that makes DPA's CORE 6066 Subminiature Headset Microphone an award-winning product? If you have to name one single component most responsible for vocal clarity in the mic what would it be?**

The essential part of a DPA mic is the mic capsule, which captures tiny sound vibrations in the air and converts them into electric signals. For subminiature microphones like the 6066, these signals are extremely weak. This is why we have designed a unique amplifier technology

called CORE by DPA technology that is inside the 6066 and many of our other miniature mics. This combination — the capsule and the amplifier — is what delivers the clear and undistorted sound coming from a 6066.

In addition to vocal clarity, the 6066 was developed to meet professional users' greatest needs. Prior to the design phase, DPA talked to professional users in the theatre and broadcast industries to learn about their requirements. The entire design of the 6066 was based on the feedback collected and the understanding of the users' pains, needs and wishes. Some key mechanical features of the 6066 are its unique 3-point gripping system, which softly yet firmly grips above, below and behind the ear for increased security as well as the novel boom attachment that lets users easily adjust and lock its placement without bending the boom.

**How does DPA aim to change the live performance landscape with the 2028 Vocal Mic?**

DPA's d:facto™ Vocal Mic has been around for some years and is used by top artists like Paul McCartney, Sting, Celine Dion and many others. The new 2028 Vocal Mic has many of the same qualities as the d:facto™ but at a more attainable price. With the 2028, we hope to enable more artists to have the same top-class sound experience.

**Which product is DPA currently pushing most aggressively in the pro-audio market globally?**

Actually, DPA does not push its products.

We believe that we have the best microphone solutions for most needs in the pro-audio market including live, house of worship, studio, broadcast, film and theater. Many audio professionals choose DPA microphones because they know our solutions are the best to meet their needs.

In addition, DPA puts a lot of effort into



training and education. We believe that as sound engineers around the world learn more and more about how great audio is created; they will come to appreciate the amazing qualities of DPA microphone solutions even more. To help educate people, we have created a wide range of written and video content on subjects ranging from basic audio education to how to mic specific instruments. DPA's Microphone University, available on our website, is where we post this educational content.

**What according to you are the three main milestones in terms of product development in the history of DPA?**

1: The first pencil mics made based on the extremely accurate measuring mics from Brüel & Kjær brought the quality of pro audio mics to a completely new level.

2: The first miniature microphones introduced in 1998 that captured studio-like sound and could be worn on the body really made an indelible impact on the theatre world specifically and the entertainment industry in general.

3: The introduction of the miniature 4099 Instrument Mic combined studio-quality sound into a small form factor that led artist to close mic their instruments and enjoy more freedom to move around on stage.

Recent DPA history has given us another



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milestone:

4: The introduction of CORE by DPA technology that, while still new, has the possibility of taking the pro audio industry to new levels by eliminating distortion and enlarging the dynamic range of miniature mics, which is a massive benefit for all types of use.

**Tell us a little about DPA's production facility and the R&D process at DPA. How heavily is DPA invested into R&D and is there any other innovation that the market can expect to see from the company in the near future?**

It requires extreme precision to manufacture a DPA microphone. Our miniature mics go through up to 200 production steps of which 90% are made under a microscope! The mics are tested 8-10 times before they even leave the factory. Creating consistent, accurate and durable mics in our factory requires special skills from the staff and a lot of training.

During the last three years, DPA has increased its investment in R&D and technology by a factor of three. We have introduced breakthroughs like CORE by DPA technology as well as designed amazing 3mm mics like the 6066 Subminiature Headset Mic. We will continue in this manner

and further accelerate our R&D. We have a strong pipeline of innovations for the coming years.

**As your growth would depend on more sales in developing countries like India, do you have a special strategy to increase your market share?**

With India's size and strong economic growth it will become an increasingly important market for DPA. We have a strong partner in **Ansata Computer Systems** locally in India, to help us get in front of Indian customers. We make frequent visits and training sessions locally to ensure we provide high-quality support and service to the customers.

**What are the company's short and long-term goals for the Indian market?**

Our ambition is to have more people, in India as well as around the world, experience exceptional sound. We share best practices and continue to educate sound engineers in the latest knowledge and techniques for capturing sound. We are convinced that this will lead to higher use of top-quality mics like DPA microphones.

**Can you tell us a little about The DPA Masters Club? How can the audio community in India avail of this opportunity and/or benefit from this?**

The DPA Masters Club is a community of highly skilled, working sound engineers, who use DPA Microphones' solutions in their daily work. These talented enthusiasts are willing to share their passion for DPA microphones with their colleagues and peers in the audio business. This is a major benefit for all the parties involved, including our customers in India, who can benefit from local sound engineers and their specific knowledge of DPA products as well as working with them in familiar environments.

**What is your vision for DPA as a company for the next 5 years?**

DPA will continue to be the most innovative supplier of state-of-the-art microphone technology and solutions for high-end audio professionals. We have the deepest knowledge in the industry, which we openly share and we are the natural go-to partner for any audio professional.

We want more people to experience exceptional sound.

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