PRO AUDIO | STAGE | STUDIO | AV INTEGRATED SYSTEMS | BROADCAST | DISPLAY | LIGHTING

MANTRA 2022 EVOLVE • GROWTH • MARKETS

Keynote of PALM AV-ICN Expo

MANUFACTURING. PRODUCTION. MAKE IN INDIA





This issue: TOP 50 Products & Technology







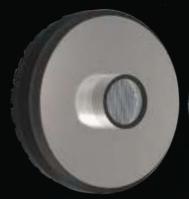


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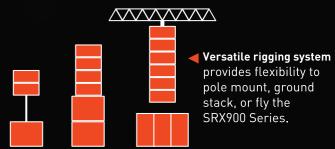


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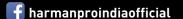


<u>exicon</u>

Martin

Soundcraft

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OUR PASSION IS THE PRODUCTION OF

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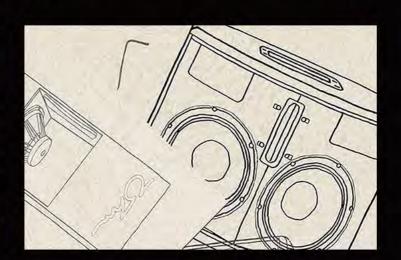
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Anurag Khanna.
+91 865 786 4921

East India
Anindya Bhattacharya
+91 865 786 4920

South India Vishwanath M.B. +91 865 786 4908



ALL INDIA ELECTRONICS ASSOCIATION (W.Z.)

(Formerly... All India Radio & Electronics Associ
Cin: U74999MH1941GAP003329
Administrative Office: Re
508, 5th Floor: Valencia Paradise, Chunam Lane, 301 Sukh
Off Lamington Road, Gran Road (E),
Mumbai - 400007, Maharashtra, India

Regd. & Head Office

ne. 022-7966 5044 • E-mail - areawz@gmail.com • Website : www.aiea.in

Date: 02/02/2022

To,

Smita Rai, Deputy Project Director PALM Expo, 2022

Subject: Letter of Support by All India Electronics Association

The All India Electronics Association is glad to announce its association & support to the PALM AV-ICN Expo 2022.

The **All India Electronics Association** is indeed proud to be associated with the expo sinc several years. PALM Expo is one of the most important shows for the Electronics Trade an Industry. It acts as a catalyst in promoting co-operation among companies connected wit the electronic trade and industry.

The expo is a great meeting ground for our members who get access to all the conferences, demonstrations and other features taking place at the expo.

All India Electronics Association is pleased to support PALM expo 2022, a platform that brings together the electronic industry annually. We would be happy to share information about PALM expo with our members and we will support the expo to our full capacity. Our members like always would be happy and eager to attend the expo after a gap of two years.

Thanking you

Yours Sincerely,

For All India Electronics Association (WZ)

Prakash Bharwani Hon, Secretary

Zonal Office at * Mumbal * New Delhi * Chennal * Kolkata



Audio Engineering Society, India

Audio Engineering Society, India

Date: 27/01/2022

PALM Expo, 2022

Subject: Letter of Support by Audio Engineering Society India (AES)

The $Audio\ Engineering\ Society\ India\ (AES)$ is glad to announce its association & support to the PALM AV-ICN Expo 2022.

The Audio Engineering Society India (AES) is indeed proud to be associated with PALM Expo 2022 being held since 2001. The PALM Expo has been a great medium to nurture and grow professional audio knowledge and expertise through its multiple features including the PALM summit and conference sessions. It has been a catalyst in growing the investments in Live Sound and pro audio by creating a platform that attracts various technical people to the show, thus generating business for the trade and the Event & Entertainment industry.

AES is pleased to endorse PALM expo 2022, a platform that brings together the entire pro audio and lighting trade together on one platform. It is the networking ground for the rental, event & entertainment, music and sound engineering fraternity from across the country. AES affirms that all AES members will be visiting the 2022 expo, showcasing their support towards the industry.

Thanking you

Yours Sincerely

ÁDITYA MODI,

Chairperson, Audio Engineering Society India (AES India)

Date: 7th March, 2022



B.E.T.A. ADVISORS: Sh. R.N. Dubay, Sh. Ram Vilas Mittal, Sh. Sikander Lai Kumar, Sh. Ashok Sharma, Suresh Garg, Sh. Ashok Gupta Sh. Raj Kumar Sharma, Sh. Kishori Lai Nagpal, Sh. Ajit Kumar Chawla, Dr. S.K. Minocha, Suresh Kumar Gupta

President Sh. Radhey Shyam Mishra 9213333112

Sr. Vice President Sh. Gauri Shanker Agga 9312259074

Vice President Sh. Amit Kumar 9811046561

General Secratary Sh. Sudhir Kumar Sha 9868017760

Joint Secretary Sh. Raj Kumar Kalra 9818037669

Treasurer inendra Kumar Jain 9810126254

P.R.O. Vinod Pachnanda 9811255641

Members :

To,

Smita Rai.

Deputy Project Director, Hyve India Pvt. Ltd.

Respected Madam,

Bhagirath Palace Electronics Traders Association is glad to announce Bhagirath Palace Electronics Trades Association 5 glid of the pro audio, live sound, AV install and laser & lighting segment.

We are proud to be associated with PALM Expo since many years. Since the last 20 years, the show has been very beneficial for professionals in the audio sector. Our members get to see new products and learn about new technology at PALM.

Our members are keen to visit the expo again in 2022. We will be present at the show, and we wish the PLAM expo 2022 good luck!

Thanking you,

Yours Sincerely, For Bhagitath Palace Electronics Traders Association

(Sudhir Sharma)



♦ Microphone Cables ♦ Speaker Cables ♦ Snake Cables ♦ Lighting & Mains Cables

◆ XLR Connectors ◆ Speakon Connectors ◆ Powercon Connectors ◆ Jack Connectors

♦ Interconnects ♦ Stage Box ♦ Snake Drums



To, PALM Expo, 2022

Date: 24th March 2022

Subject: Event & Entertainment Management Association (EEMA) support letter.

The Event & Entertainment Management Association (EEMA) is glad to announce its association and support to the PALM Expo 2022.

The Event & Entertainment Management Association (EEMA) is indeed proud to be associated with PALM Expo 2022 being held since the last 20 years, the PALM Expo has been a great medium to nurture and grow professional audio knowledge and expertise through it multiple features including the summit and conference sessions. It has been a catalyst in growing the investments in Live Sound and pro audio by creating a platform that attracts various technical people to show, thus generating business for the trade and the Event & Entertainment management industry.

EEMA is pleased to endorse PALM Expo 2022, a platform that brings together the entire trade and the Event & Entertainment Industry along with thousands of professionals from across the country and affirms that all EEMA members will be visiting the expo, showcasing their support towards the Industry.

Thanking You

Yours Sincerely

irector Operations, EEMA

Event & Entertainment Management Association (EEMA)

Event & Entertainment Management Association
E-330, Ground Floor, Greater Kailash -- II, New Delhi -- 110048
Ph: +91 (11) 2921 1029 / +91 (11) 3510 8581 | Email: into@eemaindia.com | website:



Date: 14/03/2022

PALM AV-ICN Expo, 2022

Subject: Letter of Support from the Event Equipment Services Association (EESA)

It is with great pleasure that we confirm the Event Equipment Services Association's (EESA) support to the PALM AV-ICN expo which will take place at the Bombay Exhibition Center in Mumbai from May 26 - May 28, 2022.

The PALM expo has a long history of enriching the sound and light trade community in India by attracting new business enterprises and forging healthy relations with all concerned stakeholders in the industry. Having an expo of the nature and scope of PALM leads to a stronger community.

EESA is a not-for-profit national organization dedicated to promoting a structured, secure, and progressive business environment for and within the equipment rental industry and technical services industry for live events in India; and our association acknowledges the great synergy with the PALM expo which, for the past 20 years has been a trusted expo attracting a positive footfall of unique trade industry professionals across the three days. The PALM Expo has been an ideal platform for effective engagement and trade; and also, an avenue to learn about technology trends and solutions through meaningful exchange of knowledge, expertise, and ideas

EESA is optimistic about associating with the PALM expo on its Conference platform to drive discussions about issues of concern and relevance to the equipment rental services and technical services community in India; and we wish the PALM expo the very best for its forthcoming 20th edition.

Thanking you

Yours Sincerely,

for Event Equipment Services Association (EESA)

Normha

Elton Noronha General Manager (EESA)

Office Address: No. 34 & 35, Venkatappa Road, Taskar Town, Off. Queens Road, Bangalore -560051 Call: +91 9619 001 115 Website: www.eesa.in

40. Marol Co-Op Ind. Estate, Marol Sagbaug M. Vasantji Road Andheri (East) Mumbai - 400 059 Email: palaindia1@gmail.com

Contact : 9702025174



MIN OFF: Unit No. 3/123, 1st Floor, The Workspece, 36A Mahal Inc

16/02/2022

Smita Rai, Deputy Project Director PALM AV-ICN Expo 2022

Subject: Letter of Support by Professional Audio & Lighting Association - PALA

PALA - Professional Audio & Lighting Association representing the Sound, Lights, Events and AV Professionals in the 29 States and 7 Union Territories in India, is indeed glad to continue its valuable support to the PALM AV-ICN Expo 2022.

The Association is indeed proud to be associated with the PALM AV-ICN Expo 2022 being held since 2001.

The PALM AV-ICN Expo has been a great medium to nurture and grow professional audio knowledge and expertise through its multiple features including the PALM Summit and Conference sessions. It has been a catalyst in growing the investments in Live Sound and Pro Audio by creating a platform that attracts buyers and technical professionals to the show, thus generating business for the trade and Event & Entertainment industry

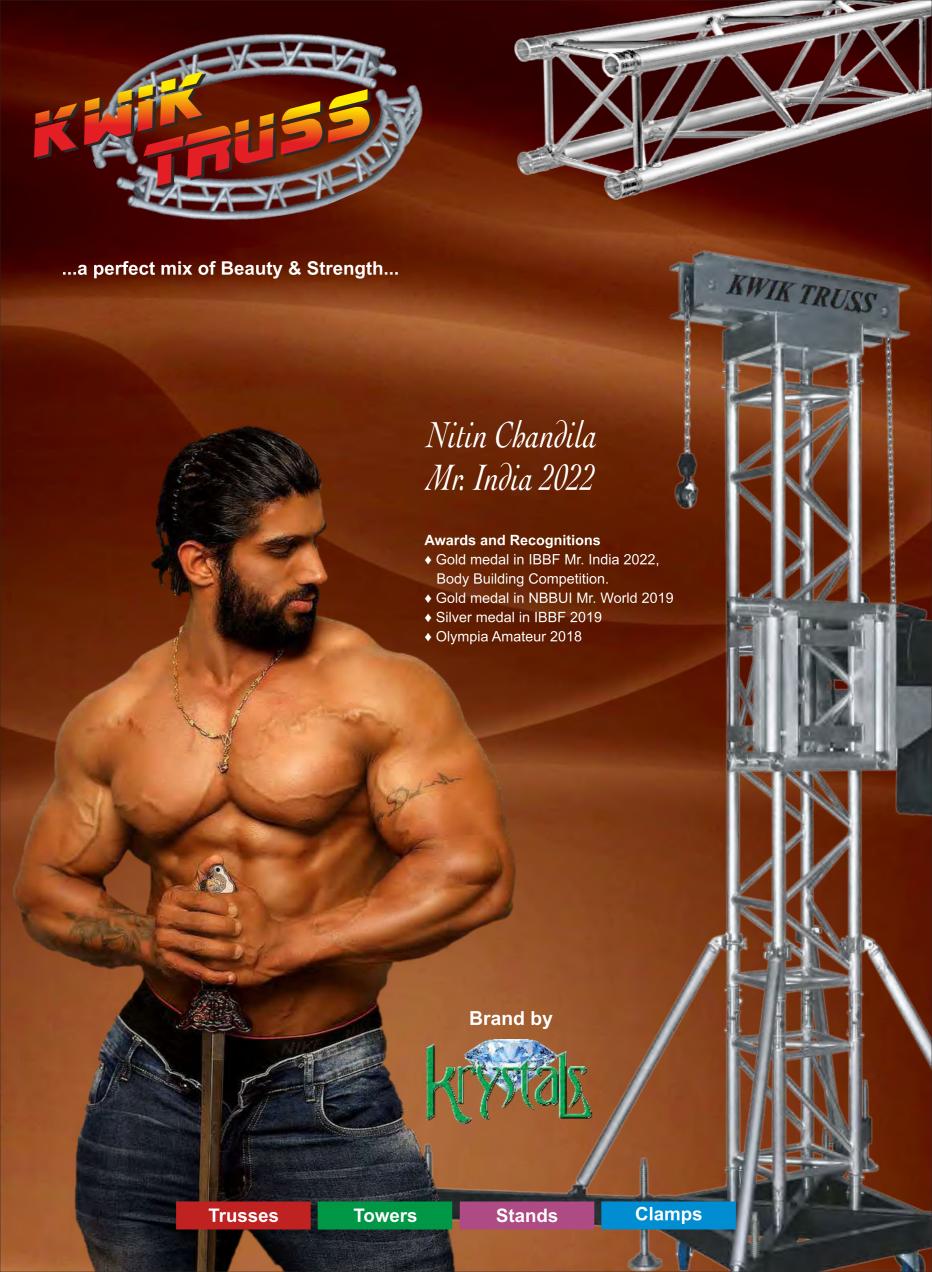
PALA - Professional Audio & Lighting Association is pleased to endorse PALM AV-ICN Expo 2022, a platform that brings together the entire pro audio and lighting trade together on one platform. It is the networking ground for the rental, event & entertainment, music and sound engineering fraternity from across the country. PALA - Professional Audio & Lighting Association affirms that our members would be visiting the 2022 expo, showcasing their support towards the industry.

Thanking you

Roger Drego



PALA PROFESSIONAL AUDIO & LIGHTING ASSOCIATION





Regd. No. : 27 / 2011

No.40, Navalar Nagar, Muthumariamman Koll Street, Anna Nagar West, Chennai - 600 400, Tamilinadu, India. Thi. : +91.44-6499 9999 web : www.esal.in email : info@esai.in

Date: 18th February,2022

To,

Mr. Ramesh Chetwani Hyve India Private Limited C/o Workenstein Collaborative Spaces Private Limited (Workafella) AK Estate, Off Veer Savarkar Flyover Besides Radisson Blu Hotel SV Road, Goregaon (West) Mumbai, Maharashtra 400062

Respected Sir,

The Electronic Security Association of India is glad to announce its support to PALM AV-ICN Expo 2022.

The Electronic Security Association of India is indeed proud to be associated with AV-ICN 2022 being held concurrently with PALM Expo, a platform that brings together the entire trade and thousands of professionals from all across the country.

Thanking you Yours Sincerely,



AS/RT

Reg. Add: 2A, Majestic mansion, 380, Sardar Vallabhbhai Patel Road, Prathna Samaj, Mumbai - 400 004

Reg. Add: 2A, Majestic mansion , 380 , Sardar Vallabhbhai Patel Road , Prathna Samaj , Mumbai - 400 004 Comm. Add: 1212, Hubtown Solaris, N.S Phadke Marg , Andheri E, Mumbai 400069 Ph: 7021849588 email: Info@asirt.in

Date: 18th February, 2022

To.

Mr. Ramesh Chetwani
Hyve India Private Limited
C/o Workenstein Collaborative Spaces Private Limited (Workafella)
AK Estate, Off Veer Savarkar Flyover
Besides Radisson Blu Hotel
SV Road, Goregaon (West)
Mumbai, Maharashtra 400062

Respected Sir,

Association of System Integrators and Retailers in Technology (ASIRT) is glad to announce its support to PALM AV-ICN Expo 2022.

ASIRT is indeed proud to be associated with PALM AV-ICN Expo 2022, a platform that brings together the entire trade and thousands of professionals from across the country.

ASIRT is pleased to support PALM AV-ICN Expo 2022, and our members will be present at the expo in strength to network the trade.

Thanking you Yours Sincerely,

For ASIRT Committee Commit

Reg.no. 01.04.2010 dt. 17.03.2010
Janis, Karicharakkadavu, Pallippuram P O
Thiruvananthapuram 695 316, Kerala
Mob: 94005 5684
Member in FEFKA (Film Employees Federation of Keralal
Affiliated to AIFEC (All India Film Employees

CAAK
Cine Audiographers
Association of Kerala

Date: 09/03/2022

To, Smita Rai, Deputy Project Director PALM Expo,2022

Subject: Letter of Support by CAAK (Cine Audiographers Association of Kerala)

Cine Audiographers Association of Kerala (CAAK) is glad to announce its support to the PALM AV-ICN Expo 2022.

The PALM Expo is a great medium for cine audiogrraphers to gain knowledge about the laterst innovations and see and experience the latest equipment and technologies available for soundtrack recording, mixing and mastering.

The PALM Expo brings together the sound engineering fraternity on its Conference platform by providing opportunity to grow professional audio knowledge and expertise through very topical and informative sessions The PALM IRAA awards also taken cognizance of the talent and worth of sound engineers and audiographers.

The expo is an eagerly looked forward to annual event and the association is indeed proud to support and be associated with the 2022 edition taking place at the Bombay Exhibition Centre from May 26-May 28th 2022. Many of our members would also be visiting the expo.

We wish PALM AV-ICN Expo 2022 great success!

Thanking you
Yours Sincerely

Saii P. Nair

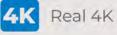
Saji R Nair Joint Secretary CAAK

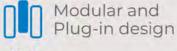
President IRSHAD HUSSAND JI Gan. Sacretary KRISSHAKULMAR V.P.I Vice Presidents JATH ABRAHAM GEORGE, ARUN RAMA VARNA Joint Secretaries SAII R., JITHENDRAM T.C. I Tressurer MCOPESH P.P. I Excusives ALTHKAIMER R. ANISH P TOM, BINCOP S. DEVAN, DANJOSE FRANCIS C DAVID JOINT SECRETARY OF THE STATE OF THE STAT

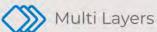








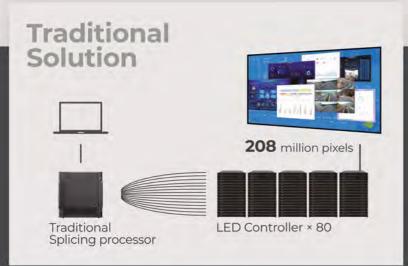


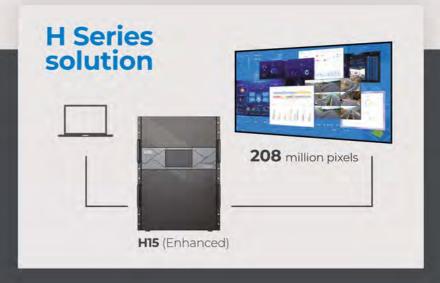




H series selection guide

Specifications	H2	Н5	Н9	H15	H15 Enhanced
Chassis	2U	5U	90	15U	15U
Max, Input Cards	4	10	15	30	30
Max, Input Channels	16	40	60	120	120
Max, Output Cards	2	3	5	10	16





KEYNOTE ADDRESS TO INDUSTRY - 20th PALM AV-ICN Expo

I convey Greetings to all exhibitors and attendees from **Hyve India**, the organizers of the 20th edition of **PALM Expo** and the 2nd edition of **AV-ICN**, the Pro AV Expo.

It is the first time the Pro Audio and Lighting industry experienced total black out of stage sound and closure of hospitality and entertainment venues across the entire country, leading to the severest crash in business in pro audio and lighting. Since inception in 2001, PALM Expo has acted as a catalyst and instigated investment into Pro Audio, such that we all have seen tremendous growth in distribution and consumption, adoption of latest technology and product from sound recording to stage sound and Pro AV. India's growth has been terrific these last two decades and purchasing power has magnified such that e-commerce online sales figures are staggering to hear.

Please note online sales do not presume are for consumer product, in fact Pro product has sold as easily and as much. The key factors of quality and affordability and price, demand and consumption all played a part in booming the Pro Audio and Lighting and Pro AV market these difficult years, since the last expo in 2019.



Anil Chopra, Founding Director, PALM Expo

Demand and Consumption are the two keynote factors, I wish to impress upon. Innovation and quality is not the prerogative of established brands and manufacturers. Markets determine product design and features, not manufacturers and factories. India possesses markets and demand, consumption, innovation, and brand power are automatic; the key lies in setting up factories and production. This is the keynote for the **PALM AV-ICN Expo 2022**.

The pieces of the puzzle have fallen in place, it has indeed been a journey of great aspiration and almost as one man, the enthusiasm and mojo of PALM addicts has resulted in manifesting the opportunity, we all sought – the opportunity of creating brand power and beauty of tantalizing product design and technology that is at the cutting-edge.

The keynote is that this opportunity now is here for all of us to exploit and realize a fully matured environment of the full cycle - Product Need-Product Design - Product Manufacturing - Product Consumption. We will now bring about the change from an importing and dependent ecosystem to an ecosystem of self-gratifying propulsive and consumptive pro audio, lighting and pro av industry that we deserve, considering India has the market and demand and consumption.

This is what PALM AV-ICN platform deserves. This the news we would like to publish in the PALM and AV-ICN magazine heretofore. Give us the news and the media of both expos and we will do full justice to such news and initiatives.

Hyve India, organizing PALM since 2015 has seen the expo platform exhibition grow 300% and visitors grow 300%. We invested in this growth story by inputs in organizing an international quality expo with all the features that nurture professionals. The 25,000 visitors attending the last show in 2019 were provided vital knowledge and experiential inputs to fuel their growth and satisfy their business. This is our mantra. The highlights and features provide vitality and growth. The PALM Conference once again brings the best speakers and important topics of discussion and presentation. I take this opportunity to thank all the speakers who most altruistically contribute to the PALM Conference with their knowledge and strengthen the platform encouraging growth and commitment.

The PALM and AV-ICN magazines are once again printed. These magazines are indeed the voice of the industry and provide vital inputs to companies for product trend and technology trend. Most importantly they introduce the industry professionals to those among us who play a leadership role and speak to us their ideas and motives. The magazines mantra is to provide motivation. News and promotion and publicity and advertising just happens!! I take this opportunity to thank the entire PALM AV-ICN team for consistently bringing out all issues of the mag despite difficult circumstances and the exhibitors/advertisers showing their faith in building the media with their support.

We are more than happy to present the **PALM Sound and Light Awards [PSLA]** and the **Indian Recording Arts Awards [IRAA]**. We are going to go into a higher gear with the PALM Product and Technology Awards next year and the IRAA music awards. There is great expectation and a demand we do this, and we aren't going to disappoint.

What is really a matter of pride is the CAVS - Certified AV Specialist training. This brings a smile to my face, just to imagine that this truly gutsy initiative is fructifying, after two years of hiatus. The CAVS is a loud and clear declaration of intent to provide genuine and meaningful certification in India for AV professionals seeking to be credible for AV integration, communication and networking [AV-ICN] projects, to have a career in AV industry with certified credibility. The curriculum is prepared and the third such course will be executed by our expo faculty. The first two courses were conducted by late Ranjit Singh, at PALM [2014] and AV-ICN [2019]. I have a vision of reaching a milestone of the first ten courses conducted by 2024. Education is the keynote here. The Conference this year also has a session on AV as a profession. Education that syncs the AV candidate in the local standards and specs conforming to international norms in tutorial that he can imbibe. Intention is to build a knowledgeable fraternity for the expo platform. The show will also announce - AV Architect of the Year. We will tie-up with all other AV training initiatives, corporate and institutional to give the candidate his due credits.

I thank all exhibitors, speakers and all associates to deliver a robust expo platform for the Pro Audio, Lighting and Pro AV industry. Cheers!

Anil Chopra





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SPARKULAR



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CIRCLE FLAMER FX 1800



CO2 JET II



STADIUMSHOT III



CO2 GUN II

MESSAGE FROM GAURAV SOOD - GENERAL MANAGER - INDIA, AT HYVE INDIA PVT. LTD.

On behalf of Hyve India, I welcome all visitors, delegates and professionals from the Pro Audio, AV and Lighting industry to this 20th edition of the PALM AV-ICN expo at Bombay Exhibition Centre, Mumbai, India.

Hyve India took the ownership of the globally reputed PALM expo in 2015 and we are honored to serve the interests of a rapidly growing Pro Audio industry. The excitement of the Pro Audio, AV and Lighting community at PALM is contagious. There is an air of unparallel fervor in the aisle and this is what makes PALM so unique. It is not just a trade show but a festivity encompassing sound and light technology.

In 2019, we established the AV-ICN expo alongside the PALM for the Pro AV industry, and further reinforced our commitment to the Pro Audio and Pro AV industry. We are making significant investments to grow the platform for pro audio, stage sound, studio sound, install sound, surround sound, residential sound, soundtrack, post-production, music production, AV, integrated systems, lighting, display, large screen, cinema screen and other related segments.

In the last two decades, PALM expo has delivered critical sourcing to the Live Sound, Pro Audio, Entertainment Lighting and Audio-Visual industry, and it gives me immense pleasure in the participation of leading brands on the show floor of PALM AV-ICN 2022.



The conference program has shaped up exceedingly well, offering unparalleled networking opportunities, delegates will be spoilt for choice on which session to attend! This year the PALM conference will host some of the leading talent and thought leaders across 20 engaging sessions which include technical workshops, seminar presentations and panel discussions.

We have overcome all challenges and sustained the ecosystem of the PALM AV-ICN expo in bringing you a much-loved show once again at the Bombay Exhibition Centre. My gratitude and best wishes to the exhibitors for a successful and fruitful expo and conference, and I look forward to seeing you again at PALM AV-ICN expo 2023 which is scheduled to take place from 25th – 27th May 2023.

Gauray Sood

MESSAGE FROM RAMESH CHETWANI - PROJECT DIRECTOR, PALM AV-ICN EXPO

A warm welcome to everyone at the Reunion of Pro Audio, Pro Lighting Pro AV industry at the 20th edition of PALM AV-ICN EXPO.

PALM Expo acts as a catalyst and is recognized as the only platform that is encouraging investment, training professional manpower, launching new products and supports design-in India and Make in India initiative. We strive to evolve the industry to latest technology, aim to provide growth inputs at our exhibition with innovative products and are passionate to expand the markets. PALM has witnessed major growth in dealer distribution network year after year.

PALM has been the largest gathering of 25,000 professionals and trade and talent. The reunion this year is our determination to give back to the visitors and delegates and professionals, their much-loved annual convention in Mumbai.

The impact of pandemic and the China supply crash has been severe. Our spirit remained high despite the evidence that a lot of products were not available. Hosting PALM AV-ICN Expo was a challenge, but we gladly accepted. The enthusiasm and high motivation of exhibitors made this show happen.

Delivering Business has always been our mantra. But despite all the hardships we went through this year, we will have 3 fruitful business days at the expo. We are confident that PALM 2022 will keep our mantra alive.



This year, we have two halls, HALL 1 for Pro Audio & Pro AV and HALL 6 - an independent hall for Lighting. The PALM HARMAN LIVE ARENA will be located at the VIP Ground and seen in full swing while a full-fledged Conference will run in Grande Hall C. Make sure you attend the conference which is full of marquee speakers and hot topics.

We would like to thank all our exhibitors and valued partners, who have been instrumental in supporting the exhibition.

Wishing you a splendid and favourable PALM Expo 2022.

All the best!!!

Ramesh Chetwani



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Playback

BEST OF THE BUNCH

A LEGITIMATE CRITICISM

STALLATION & LIGHTING

The Secret Life of Valves

IN CRITICISM

HATE STUDI

POP GOES POP

THE LAST WORD

C.O.N.T.E.N.T.S

MUSIC

24 THE BIG

32

34

VIDEO



THANKS TO ALL THIS HI-TECH EQUIPMENT, EVEN THE JACKASSS

BRAYING CAME OUT BEAUTFULLY

IN THE DISC WE RECORDED AS
A JOKE, NOW THE PRESS WANTS
TO MEET THIS SUPERHIT
SINGER!

playback

HI-TECH

54

78

APPOINTMENTS

WYAMAHA

CLASSIFIEDS



5 ... **SYPM FWDM**

Enclosure Power Rosi



Musician Messe in the spotlight at Pro Sound Systems PALM 2004 Expo

The music production industry and po audio studies are all set for the fourth PS2 PALM Expo displaying latest in film and music search worsling equipments
This years DCD DALM Expo is an independent, exclusing parundio show in India. The PS2 EALM show incorporation
discotloque installations for round & video & lighting-



5 dB/octave. 20-22,000 Hz. 74 H x 42 W x 38 D or 24 Kg.

8 ontion nominal. 6 dB/octave. 20-22,000 Hz 60H x 28W x 33D cm 14 Kg. Rs 2,693.52 por pau.

ACOUSTICS It's not just about

noise control!



audio & music production

distributorship for India

Narain Pro Audio bags Adamson

AMS Neve extends post production range

HHB appoints Modi Digital Audio in India



OUND EFFECT

LIBRARIES

Tubby and Parik Orchestrate Background score for 13B

musc for films.

Their orchestration for blockbuster albums have given a fresh lease of life to the non-film music market.

13









KNOW HOW TO HEAR

PRO SOL

A PUBLIC HEALTH MATTER

AN **EQUAL** MUSIC

Outsourcing has become the need of the hour for all the developed countries of the world, if they wish to remain competitive with the excellent products that are fast appearing from the less developing ones. USA has long since recognized the need and the Indian and Chinese economies are reaping the benefit of this decision. Unfortunately West European arrogance has resulted in the European companies being left behind in this revolution. Recently an attempt was made to get European Companies interested in working with their Indian, Chinese and other Asia Pacific counterparts. An ing with their Indian, Chinese and other Asia Pacific counterparts. An event called Silk Avenue was planned in Rome, Italy to facilitate these collaborations and I was lucky to be a part of this experiment. Not only were we to visit the world class media facilities that the city of Rome offers, a string of meetings were also set up with like minded European companies to seek the possibility of outsourcing. The event was spread over three days.

One Tree Festival

CASE STUDY

Mahatma

Museum

Wireless

There are over 300 major museums in India, presenting a huge potential market for interactive audio solutions. During the recent Vibrant Gujarat Summit, Prime Minister

Narendra Modi inaugurated a state-of-theart museum in Gandhinagar dedicated to the life of Mahatma Gandhi. Audio company

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scene in the North, with a cursory look at Central India





11 QUESTIONS WITH

Dr. Andreas Sennheiser



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Studio Monitors

What's new in The Monitor

Global Citizen Festival India Electrocraft plays sound catalyst



a note from the editor



PALM A surge in first time exhibitors and visitors and a substantial increase 2015 in exhibit floor space highlighted the relevance of the Mumbai expo





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Top FOH

Engineers in India

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SYSTEMS

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of the hottest products



The 10th IRAA awards

honoured the best in the

Winners awarded across 18 categories

Recording & Mixing industry

Beyond the Studio; Into the

Easy access and availability of studio gear give home studios an added impetus

For many composers and music producers today, 'there's no place like home'. Easy access and availability of studio gear and the ability to accommodate lower budgets giving artists access to affordable recording time has led to many converting their homes into recording studios that provide a professional experience without exhausting the wallet. In this feature, PSS reports on the homes-studio scenario in India.



Among the professionals of the music industry, mention of 'mixing engineer' conjures up image of a man (or perhaps a woman - we would definitely like to see more of them in the profession) huddled over his console, sliding faders up and down, pressing buttons and staring at his knomputer screen where waveform runs like lifeline on a cardiogram. Among the listeners, even for the most discerning ones, 'mixing engineer' is a credit they rarely care to read on their CD or IP covers (RilP not so old format). The lack of album artwork in the digital arena has remove the scope of that credit also. Listeners have their favourite artists: composers, singers, lynicists — but rarely does anyone follow a 'mixing engineer'. Then, is music mixing engineer an artist in the first place; does his work qualify as art? Or is he just a technical man, a person of science, an operator of console, applying gear and technology to realize the vision of the composer? The quest of this piece is to find answers to these questions, to understand what keeps a 'mix is usually engineer' more followed and committeed to the craft in spite of the lack of limelight that is usually



the







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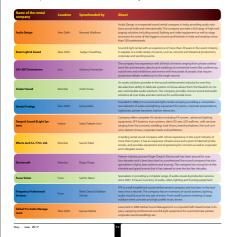
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Wizardry in Studio Design

Top 35 Rental Companies



The Fountainhead of superlative experiences



Studio & Recording Glossary

The True Mix

In conversation with **Shantanu Hudlikar**



The Imperatives of Mastering

a note from

www.palmtechnology.in





DJ Anish Sood

Studio Consoles

Mixing Wars - Analog or Digital?



Only Much Louder

Fountainhead MKTG -Oranjuice Entertainment





PALM RESOUNDS WITH SURGE IN VISITORS FROM **STAGE SOUND** AND **LIGHTING FOR EVENT INDUSTRY**





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Showcase of the PALM[™] Expo 2007 Whistling Woods - Impact Feature

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Recordings to **Record**

note from Content Anchor s

Sound Matters







AV-ICN **EXPO CONNECT** DIRECTORY **OF SYSTEMS INTEGRATORS**

PALM TECHNOLOGY

Features

Q4 A Note from the Edito 2017 redeems big stage rental. But pansion is the story in 2018.

ing Big With Smaller Boxes
site-à-site with Nixon Jhonny; Sachit Subsout what's new and what's next for the n

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the experience of devotees at Sai Teerth with JBL and Crown Audio Solutions

PALM technology

THE FAMOUS **STORY**





NOISE CONTROL KILLING MUSIC REYNOLD'S BRINGS D&B audiotechnik KSL to India

Mixing

Indian



Modern Stage Service (Projects) brings WATER TO LIFE



Features

26 Industry Focus: Big Stage Live Shows 40 Case Study: Church Install

rofessional Focus: The Visual Pack
conversation with Jash Reen and Joshua Dmello of Walver Visuals; the du
livering an extraordinary schedule of high profile EDM feetivals.

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



Understanding the Display Market with **NEC**



STUDIO SHOWCAS

PALM technology

Bishwadeep Chatterjee

FEATURES

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Classical

20

technology



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The Year in Review





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May - June 2022

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Pursuing the **Pro Audio** Trail

In conversation with Caroline Moss and Sue Gould

core team of Editor - Caroline Mo





Product Focus

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PALM SUMMIT CONFERENCE & SEMINAR

Knowledge Quotient at PALM AV-ICN expo 2022

anufacturers and distributors spend three fruitful days at PALM, exhibiting and showcasing their latest products, but beyond the enticing exhibition stands, are fringe events like the PALM Conference & Seminar Programme that are arguably the most valuable feature of the three days, wherein delegates can connect with some of the industry's biggest influencers and thought leaders.

Curated by PALM AV-ICN magazine, the PALM Summit is the learning and networking platform where the best talent and top-notch professionals from the country and across the world, share their expertise, skills and knowledge on technology and industry trends through a range of topics covering pro audio & light, AV Install & Integration and Music Production.

Each year the PALM expo brings together the largest gathering of Stage

Conference Audio Partner:



Sound, Lighting, Pro AV, Music Industry and Event Tech professionals on its Conference platforms for dissemination of knowledge, information sharing, and networking while also providing unprecedented opportunities for potential collaboration.

Delegates and visitors to the expo can look forward to a comprehensive and diverse program this year. The PALM Summit will host 20 sessions featuring 30 experts across the three days of the expo with each day discussing technologies and trends reinventing the business. This definitive knowledge platform of influential leaders, buyers and sellers, policymakers and experts, is what makes the PALM Summit a leading conference and seminar platform for the Pro Audio, Pro AV and lighting industry in India.

The three-day PALM SUMMIT – Conference & Seminar will be held at the **Grande C, opposite Hall 1** of the expo. Vital audio support to the three-day programme from Audio Partners **HAR-MAN International (India) Pvt. Ltd.** has provided crucial impetus to the staging of the programme.

At the time of going to press, the line-up of speakers for 2022 include some of the most reputed names in the industry. The listing provides an overview of the three-day schedule.

The expo has taken a firm initiative to improve the skill and knowledge quotient as industry development and growth depends greatly on efficient technology coupled with product information. The objective has led to the conceptualisation of extremely crucial and all-encompassing sessions at the PALM AV-ICN Summit - Conference & Seminar Programme. The Conference platform, features experts discussing innovative technology, new products, future trends, critical business



SMITA RAIDeputy Project Director,
PALM Expo

insights and pathways towards better business and key strategic and topical issues facing the industry across all segments of the pro audio, lighting pro av and install chain. The Conference has a lot to offer – challenges are brought to the fore, solutions are discussed, and attendees walk away with unparalleled knowledge.

PALM has a very strong philosophy and belief in the assets it creates, their utility and purpose, contribution to evolving the industry to high professionalism, greater talent and better business. It is this sense of purpose that drives the PALM Conference & Seminar and the other highlight features like PALM Lighting Design Showcase, Indian Recording Arts Academy Awards and PALM Sound & Light Awards.



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DAY 1: 26th May 2022

PALM EXPO & CONFERENCE 2022 KEYNOTE ADDRESS

Time: 11:00 - 11:15

Speaker: **ANIL CHOPRA**, Founding Director, PALM expo Synopsis: *State of Pro Audio, Lighting and Audiovisual Industry and PALM AV-ICN role as a catalyst*



PERFORMANCE GUARANTEE OF MEGA SCALE LIVE SOUND PROJECTS

Time: 11:15 - 12:00

Speaker: **ROGER DREGO**, Proprietor - Electrocraft | Roger Drego Theatre Management | Star Professional Audio Synopsis: *Delivering Guaranteed Sound Reinforcement for events which cater to lakhs of people and covering thousands of sq. mts., requires immense planning and experience. This session will offer a glimpse into the challenges of guaranteeing sound reinforcement at showtime. Let's look behind the scenes at big events.*



HOW GOOD MONITOR MIXING CAN BOOST A PERFORMANCE: INSIGHTS, TIPS AND TRICKS

Time: 12:15 - 13:00

Speaker: **ASHISH SAKSENA**, Live Sound Engineer for

Shankar Ehsaan Loy and KK

Synopsis: The best quality of a live performance cannot be experienced unless and until the audio engineer has the knobs dialed-in precisely. This session will talk about positioning microphone, sound-check, tuning stage monitors, attitude of the monitor mixer, monitor mixing techniques, dealing with expectations of artistes, creating space when mixing monitors for



A-list artists, stage monitor vs iem - pros and cons, dealing with challenges such as occlusion effect etc.

RESHAPING THE FUTURE OF EQUIPMENT RENTAL SERVICES IN INDIA

EESA PALM SESSION on Event Equipment Rental Services Market Dynamics

Time: 13:15 - 14:00

Speaker: **WARREN D'SOUZA**, Founder & Managing

Director - SOUND.COM / EESA Member

Synopsis: This session will discuss the volatile nature of live event equipment rental services, challenges with inventory, need for key operational reformations (both business and on-site) and keeping up changing profile of live stage events.



EEMA PALM SESSION ON CURRENT STATE AND FUTURE OF THE EVENT INDUSTRY

Time: **14:30 - 15:30**

Synopsis: This session will talk about the current state and boom in the event industry, how the event industry perceives itself and growth factors which are playing catalyst for the industry.

www.palmexpo.in/conference-agenda-new-2022.aspx

SYSTEMS ENGINEERING FOR THE BIG STAGE

Time: 15:45 - 16:30

Speaker: **DWAYNE DAS**, Application Engineer, Alphatec

Audio Video Pvt. Ltd.

Synopsis: This session will discuss the entire scope of hardware, software and engineering required to deliver very extensive communication, networking, sound reinforcement and connectivity required for live sound events of a large scale. The session will also touch upon the different challenges involved and provide insight on how these challenges can be overcome with real-world examples.



QUALITY PARADIGM OF MEGA SCALE AV PROJECTS

Time: 16:45 - 17:30 hrs

Speaker: **PRASHANT GOVINDAN**, Regional Consultant -

India, Generation AV

Synopsis: The session will discuss how Indian Integrators can ensure global levels of quality for large scale AV Projects.



TOP 50 PRODUCTS & TECHNOLOGY

Time: 17:45 - 18:30

Synopsis: In this session PALM has selected the top 50 products and technologies trending in the market. This unique presentation allows you to meet the companies on the show floor for Q&A about their products. These products will be moving the market. This unique presentation celebrates the evolution and innovation of



technology and recognizes trends in the Pro Audio and Lighting Industry.

DAY 2: 27th May 2022

GREATER OPPORTUNITIES IN THE AV INDUSTRY

Time: 11:00 - 12:00

Speaker: PRASHANT GOVINDAN, Regional Consultant -

India, Generation AV

Synopsis: The exploding AV industry offers dynamic middle managers, fantastic opportunity to grow professionally. The session will provide insight to candidates and aspirants to plan a future in AV-ICN (integration, communication, networking). The panel will discuss how as an industry we can do a better job in cultivating talent for the future as a win-win for all.



DOLBY ATMOS FOR MUSIC

Time: **12:15 - 13:00**

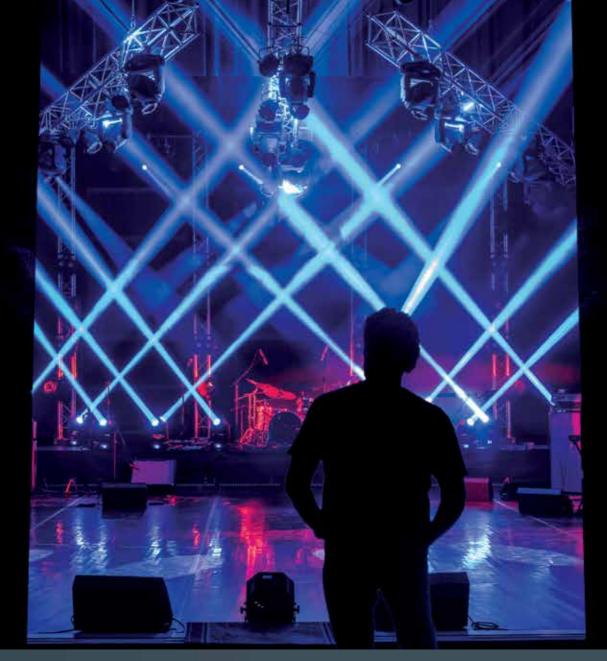
Speaker: **SREEJESH NAIR**, Avid Dolby Certified Audio

Application Specialist

26

Synopsis: This session will talk will be about Dolby Atmos and its techniques in mixing Music and Post. It will cover a quick fundamental of the technology, what to look for, how to listen, and techniques to use these details in mixing and delivering a mix.







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CONVERGING TECHNOLOGIES THAT REINFORCE LIVE EVENTS OF THE FUTURE

EESA PALM TECHNOLOGY SESSION

Time: 13:15 - 14:00

Speaker: ${\it VIJAY SABHLOK}$, Technical Director | Event &

Show Director / EESA Member

Synopsis: This session will track the increasingly evolved landscape of live events as we know it, with an emphasis on avant-garde technologies that allow show producers to assure ultra-immersive and hyper-engaging experiences to their audiences.



DELIVERING HIGH-END AV SOLUTIONS FOR HIGH-END RESIDENCES

Time: 14:30 - 15:15

Speaker: **VEERYAVANTA PARIAT BHIDE**, Director of Residential Systems and Solutions, Alphatec Audio Video Pvt. Ltd.

Synopsis: This session will throw light on the current level of client's expectations, technology and deliverables in today's high end solutions. It will also cover the necessary SI/Consultant skill set required to meet this new level of demand. The session will also talk about some of the



latest innovations in multi-room audio, movie audio and movie systems for home entertainment.

BIG STUDIOS MAKE BIG SOUNDTRACKS

Time: 15:30 - 16:45
Panelists: FARHAD K.
DADYBURJOR (MODERATOR),

Recording & Mix Engineer and National Business Head Studios at Alphatec Audio Video Pvt. Ltd.; SHANTANU HUDLIKAR Senior Consulting

HUDLIKAR, Senior Consulting Recording and Mix Engineer;

BISHWADEEP CHATTERJEE,

Film Sound Designer, Sound Editor, Audio Mixer and Partner at Q Factor and Orbis Studios, **KJ SINGH**, Audio Engineer,

Music Producer and Partner at

Asli Music LLP

Asli Music LLP
Synopsis: This Panel Discussion will deliberate on the need for re-establishing focus on top of line studios with big, quality, state-of-art recording gear to record the big music soundtracks. Earlier, in the 80 and 90s there was aspiration to record tracks in a studio and make it a global hit but now even the biggest artistes are recording in home studios. This session will discuss the importance and need for recording in professional studios.







AV ARCHITECT AWARD OF THE YEAR

Time: 17:00 - 17:30 Speaker: NARENDRA NAIDU, Chairman and Managing Director, Rhino Engineers Pvt. Ltd., Ahmedabad; ANIL CHOPRA Founding Director, PALM expo

Synopsis: PALM AV-ICN
platform is dedicated to
Audiovisual Communication





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and Audio Video Integration and Networking has instituted the Best AV Architect Award as a Recognition of Excellence in AV Integration. With this award AV-ICN aims to recognize professionals who have achieved excellence in adopting latest technologies in AV Architecture Design, Installation and Program. This year Mr. Narendra Naidu, Chairman and Managing Director, Rhino Engineers Pvt. Ltd. has been selected as Best AV Architect 2021 for his exemplary work, knowledge of best practice in AV design for the Statue of Unity Project and other visitor attraction projects. Mr. Naidu will also throw light on how this project was executed and accomplished.

HOLISTIC AND NEW LIGHTING DESIGN CONCEPTS FOR STAGE AND SPECIAL VENUE EVENTS

Time: 17:45 - 18:45
PANELISTS: VIRAF POCHA
(MODERATOR), Director,
Landmark Productions (P) Ltd;
NAVEEN DESHPANDE, Founder
and Director, Ground Control;
RASESH PAREKH, Founder &
Proprietor, Integrated Entertainment Solutions; SREEKANTH,
Director, Cameo Light Academy
Synopsis: New lighting concepts using Wi-Fi / IR, remote
control, automation and
advanced technology









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DAY 3: 28th May 2022

GETTING YOUR STUDIO DOLBY ATMOS HE READY

Time: 11:00 - 12:00

Speaker: **BHASKAR PAL**, Content Lead - India, ME, Africa at Dolby India Synopsis: *With the popularity of Dolby Atmos and the recent momentum of Atmos*

Music and Dolby Atmos for Home Entertainment (HE), more and more content is

being mixed and released in Dolby Atmos on the major music streaming platforms and OTT services globally. This has also resulted in a growing demand for mixing facilities, designed to international standards, catering to Dolby Atmos nearfield mixes. Not everybody is fully aware of the requirements for near-field Atmos mix rooms and this session aims to throw some light on the basic design requirements for these rooms. This session will benefit all studio designers, acoustic consultants, and system integrators as well as existing studio owners contemplating upgrading their mix room.



'THE PROCESS' - DESIGN & CONSTRUCTION OF ACOUSTICALLY SENSITIVE SPACES

AES INDIA PALM TECHNOLOGY SESSION

Time: 12:15 - 13:00

Speaker: **ROLINS THOMAS ROY**, B.Arch, M.IOA, M.ASA, : Partner, Rolins Arcoustics LLP

Synopsis: This session will give a brief overview of the stages involved in projects with acoustic detailing & stringent spatial requirements. From the drawing board to setting acoustic design criteria & specifications and then moving onto the execution at site until completion - irrespective of the type of project i.e private



& public spaces like studios, theatres, sports venues or cultural halls and more. An Architect/Acoustic consultant's perspective on the 'process' of how these are addressed and brought to reality.

BUILDING BRIDGES: CONCEPTUALIZING A STREAMLINED APPROACH TO ORGANIZING WORLD-CLASS EVENTS

EESA PALM PANEL DISCUSSION

Time: 13:00 - 14:30

PANELISTS: SAGAR REDDY (MODERATOR), Director, Activ Solutions (Moderator); FELIX REMEDIOS, Managing Director, Reynolds Professional Sound & Lighting, SURESH MADAN, Founder & CTO, Dynamix Media, **ROSHAN ABBAS**, Founder, Commune India Director, Geometry Encompass; RAJESH KV,

Founder / Partner of CAB

Synopsis: An engaging panel discussion that











explores the possibilities of enhancing synergies between the event producer / event management community and the equipment rental services community, with a focus on improving communication, streamlining processes, and fortifying technical knowledge and expertise between the two communities.

STAGE MUSIC PRODUCTION FOR LIVE VIDEO STREAMING

Time: 15:00 - 15:45

Speakers: BETSON CARVALHO, Founder, BNA Talents; NIXON JOHNY, Founder, NJSM Virtual Studio Synopsis: With the development of streaming technologies, musicians now have an opportunity to perform virtually to a diverse audience, across the world. This session will talk about streaming solutions and tools required to bringing online events and virtual stage performances to life. The session explores all the technology required to deliver.





IRAA 2021 FELICITATION CEREMONY AND OPEN FORUM

Time: 16:00 - 17:00

Synopsis: The Indian Recording Arts Academy Awards (IRAA) 2021 streamed live on 5th Feb 2022. IRAA announced winners across 50 categories, selected from almost 1400 nominations received, for movies, soundtracks and albums released between 1 January 2020 and 31 December 2020. The IRAA 2021 winners will be felicitated at this ceremony in the presence of Jury members. This session will also be an open forum for discussing the IRAA categories for 2022 and the evolving Independent Music scene.





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TECH FOCUS

PALM has selected the Top 50 Pro Audio and Lighting Products & Technology, trending in the National and / or International markets.

The demand for advanced technology has made the industry competitive with global brands unveiling the latest product technology and new versions of equipment with upgraded design and

creativity. This unique feature celebrates the evolution and innovation of technology and recognizes trends in the Pro Audio and Lighting Industry.





TOP 50 PRODUCTS & TECHNOLOGY

Global Pro Sound & Light Technology

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





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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 including theaters, arenas and stadiums dance clubs, medium size festivals, corporate events and contemporary churches.

Ahuja CSD-6303T

This 30W RMS, 2-Way PA flush mount Ceiling Speakers is excellent for reproduction of both speech and music. It has a wide frequency response and adjustable tweeter for optimum directivity and operates on 100V line with power taps of 30/15/7.5W. It features a moulded plastic frame with metal mesh grill and tweeter can be tilted at an angle to focus clear, intelligible sound in the desired direction. 100V line operation with easy power tap selection through a terminal block. It is ideal for hotels, office buildings, restaurants, hospitals, shopping malls, department stores, cinemas and gyms.



AKG K371

AKG K371 Professional Studio Headphones strike the perfect balance between studio-quality sound, plush comfort, and a sleek, sturdy design. 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 in their class, with a stunning frequency response of 5 Hz to 40 kHz. The Closed-back, oval over-ear design ensures Superior isolation and improved low-frequency response and lightweight foldable design Ensures long-wearing comfort for production in the studio or on-the-go.



Allen & Heath Avantis



AKG K371 Professional Studio Headphones strike the perfect balance between studio-quality sound, plush comfort, and a sleek, sturdy design.

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improved low-frequency response and lightweight foldable design Ensures long-wearing comfort for production in the studio or on-the-go.

A-Pro Ixora Moving **Head & Hunter LED PAR RGBW Fixture**

The Hunter LED PAR RGBW Fixture in IP65 will be a new fixture displayed for the first time at PALM Expo 2022. It is a powerful and versatile RGBW Fixture, designed for various applications like Stage Lighting, Façade Lighting, Architecture lighting, commercial, residential & transportation with a very high Intensity (up to 80 Feet). The Heavy

32

Hunter LED PAR RGBW Fixture

Duty waterproof multi-colour LED Par

features a robust design with a steady

aluminium alloy die-casting body.

Ixora Moving Head with OSRAM Sirius HRI 371W Lamp is a thick beam, high intensity moving head fixture in a compact design. Ixora Moving Head runs on power supply AC110V~240V, 50/60Hz and Power consumption of 460W with frost filter for soft-edge projection.

Key highlight Technical Parameters of Ixora include - Beam angle: 0°-4°, 1 color wheel with 14 fixed colors, 1 Gobo wheel with 10 fixed gobos, Prism: 8-facet & 24-double layer facet prism, bi-rotating & Stackable, 6 color multicolored wheel+ multicolored prism, Focusing: 0-100% linear, Strobe: 5-13 frequency/ second, Variable high speed Shutter / Random/Pulse flash Dimmer: Mechanical dimmer in precise speed from 0% ~ 100%, Pan/Tilt: 540°/ 270, °Channel: 16CH, Control mode: DMX512/ Auto/Manual/Master-Slave/RDM Full Fireproof ABS material, Weight: 16.7kg, Fixture Size: 342*275*533mm.

Audio-Technica ATH M50x

As the most critically acclaimed model in the M-Series line, the Audio-Technica ATH-M50x Professional Studio Monitor Headphones feature 45 mm large-aperture drivers with copper-clad aluminum wire voice coils, plush sound isolation pads, and an over-ear design. It delivers accurate audio and deep bass response, making the portable closed-back headphones perfect for long sessions in the recording studio

The ATH-M50x features 90° swiveling

earcups for easy, one-ear monitoring, and are collapsible and fold flat for seamless traveling, making them great portable headphones. ATH-M50x is suited for applications ranging from studio tracking, mixing, DJ monitoring

Over the years Audio-Technica has unveiled a variety of limited-edition versions of the ATH-M50x headphones. In 2020, they released the ATH-M50x-PB purple and black limited-edition headphones! This exclusive design was the first of the limited-edition colors to be available in both the traditional wired model and a wireless model, the ATH-M50xBTPB.

and personal listening.

Avid VENUE | S6L-48D

VENUE | S6L-48D control surface is designed to provide the control and flexibility to handle larger, more complex live sound productions.



The d&b SL-Series

The SL-Series is borne from a dream to design the ultimate large scale line array family; the culmination of over three decades of evolution. Its unparalleled performance, accuracy, and state of the art features, all carefully packaged in the d&b way, for easy, intuitive operation.

All d&b products are supplied with user-friendly software tool to help you setup and optimize with minimum effort and time. All products are covered under a 5 years warranty including all parts.

Know more: ansata.net/sl-series



XSL Systems





Phone: 1800 833 4228

E-mail: livesound@ansata.net





The system platform offers a choice of five surfaces with 16 to 48 faders. These control surfaces can be paired with a choice of three engines and can be connected to any combination of S6Ls four I/O rack options.

The VENUE | S6L-48D supplies 48 + 2 faders, 160 assignable knobs, and six integrated touchscreens, The new surface can facilitate dual-operator workflows in live sound productions where quick access is a priority and sounds may be coming from myriad sources, such as large broadcast events and theater productions. And because S6L-48D is part

of the S6L Unified Platform, the control surface translates any show file to accommodate its larger frame size, and can be paired with any engine, and any combination of stage rack.

Avolites Diamond 9 215 / 9 330

The D9-330 and the D9-215 are both visual canvas controllers that allow product designers to achieve creative

for easy operation.

Berhinger Flow 8

The Behringer Flow 8 is an 8-Input



Digital Mixer with Bluetooth Audio and App Control, with 60 mm Channel Faders, 2 FX Processors and USB/Audio Interface. The new FLOW 8 EZ-GAIN function can monitor signals on one or all channels at the same time. FLOW 8 mixers offer full remote control from any Android or iOS device, giving users the freedom to go exactly where the sound is ideal for making any sort of adjustment. All channels offer 4-band EQ, com pression, as well as 2 FX and 2 monitor sends. All the monitor and



control in lighting, broadcast, and AV, meaning they can create, program and command world-class performances.

The Diamond 9 allows users to intuitively combine lighting, media, and other visual aspects of a show, giving them creative freedom when powering shows. The console has a new look, with main front panels constructed out of a single sheet of aluminium for a high-end finish.

The D9 – 330 features 11 ultra-bright touch screens, which include three main workspace screens as well as three screens for a media preview, alongside specific screens for attribute control and softkey shortcuts.

The Penny & Giles faders are motorized and touch-sensitive and the encoders have their RGB bar graphs for ease of monitoring. The console also features a backlit integrated keyboard. On the right-hand side of the D9, users will find five encoder wheels and a T bar for controlling scene masters. In addition to this, there is a new set of carefully positioned, bespoke buttons

main buses feature 9-band EQ and a limiter for preventing unexpected volume peaks on the speakers. FLOW 8 features two independent studio-grade effects engines, each with 16 presets for refining instruments and vocals with breathtaking effects sounds and depth. It also doubles as a 10 x 2 channel USB audio interface for capturing live performances, cutting tracks in your home studio, or hosting a podcast

BETA 3 – DT Series

The DT series is a multi-channel professional amplifier, based on an efficient thermal distribution structure of security, using a concise output circuit, precise detection, protection control

and reliable design. The zero temperature control of the intermediate and intermediate frequency correction function makes the product performance more efficient and ensures the cooling of all components and all heat sources. With the unique limiting function, it will not cause output distortion even if the input is too large, and there are two optional limiting modes to match different types of speakers. With the three input cascaded switches, the input terminals of adjacent channels can be compliantly used to simplify the input wiring of large applications.

DT series designed with high power supply system and efficient output level can provide strong output capability with accurate and intuitive status indicator and independent volume knob, working status to ensure all operation are controlled efficiently. Three optional sensitivity offers a variety of power levels that can flexibly match with different systems.

Celto Acoustique IsoRay

IsoRay series is a next-generation line source in SPL to size ratio with the uni-



form coverage. The IsoRay 10" coaxial line source offers the same performance as industry-standard dual 8", IsoRay is 60% smaller and 40% lighter providing a solution that combines portability, minimum visual impact, pristine sound quality, coherent coverage, and unmatched SPL/Size Ratio. IsoRay Coaxial Cabinet material is built with outdoor grade Baltic Birch Plywood and Woofer Chassis incorporated with Die Cast Aluminum. The array facilitates touring grade Rubberized PolyUrea with a black paint finish. The series has two active coaxial curvature Array, the ISORAY 18S and ISORAY 10+.

ClayPaky Xtylos



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The Xtylos is a compact beam moving light with unique optical and



chromatic characteristics, making use of a tailor-made RGB laser source. This laser source lasts for 20,000 hours and is enclosed in a reliable, safe and fully sealed module it is the powerful engine of an incredible array of colours: in contrast to the subtractive mixing used with discharge lamps, and coloured

light beams. A special patented design optical system turns the laser emitted light into a solid, dense, saturated light beam without any visible hotspots. The beam aperture ranges from 1° to 7° and can be decreased further to 0.5° using the beam diameter reducers provided on

the gobo wheel. The resulting pencil beams are of exceptional intensity, and cannot be reproduced by any other light sources, either LED or traditional. The Xtylos is a dynamic light on the market. Launched in 2019, it was the first moving headlight with a laser light source, and this opened new, surprising prospects for the development of the entire entertainment lighting world. Claypaky has been constantly developing the Xtylos series, extending the range with the weather-resistant Xtylos Aqua and recently with the small but incomparable Mini Xtylos HPE.

d&b audiotechnik KSL Line Array

The KSL System employs a combination of techniques to achieve full bandwidth constant directivity pattern control. The low-frequency geometry uses cardioid technology along with a driver and port layout to produce directivity matched perfectly with the



coaxial arrangement of a highly efficient midrange horn and the waveguide mounted high-frequency drivers.

The cabinet geometry of the KSL8 and KSL12 loudspeakers maintain seamless, full bandwidth directivity control. Two 10"LF drivers, coupled with two sides facing 8" LF drivers, develop an extended response and extremely low-frequency output. The midrange is delivered by a high sensitivity horn, loaded with an 8" driver, while the utilization of two custom-designed 1.4" exit HF drivers with 3" voice coils in a compact format brings high output and resolution with impeccable sonic quality. Powered in 2-Way Active mode by the D80 amplifier, one channel drives 10" drivers, c quality. Powered in 2-Way Active mode by the D80 amplifier, one channel drives both 10" drivers, while all other components are passively crossed over and driven by a second amplifier channel

dBTechnologies VIO L210

VIO L210's low-freq transducers, positioned in a V form and sealed in a bass reflex wooden enclosure, are designed to improve efficiency and to last in high-stress conditions, providing an accurate transient response and an extended low-end reproduction.

The new waveguide contributes creates a cylindrical wavefront for precise high-frequency directivity control. The two aluminium phase plugs are in front of both woofers which acts as a

prosecution of the constant directivity high-frequency waveguide. Each phase

plug features 26 diamond-shaped holes aimed at reducing any interference within the crossover zone while improving frequency and transient response. The module features a Class D Digipro G3 900 W RMS amplifier capable of achieving 135 dB SPL. The FIR filters guarantee coherent coverage. The pre-amp module is equipped with digital optical isolation which avoids audio coupling, preventing any noise

VIO L210 has a built-in 3-point rigging system for a smooth and fast set-up. The two front links easily connect the modules from every angle. The back central

rigging strand is equipped with a hook type link to set the relative splay angles determined via the prediction software dB Technologies Composer.

DiGiCo Quantum 338 Digital Mixing

The Quantum 338 digital missing console is based on seventh generation FPGAs with an entirely new system architecture. The console merges tried and tested workflows with immense processing muscle and bold innovation including a new dark mode. The Quantum 338 is the next step in the DiGiCo Quantum range of consoles. Delivering 128 Input channels into 64 busses, with additional processing for Master busses and Matrices. The Quantum



functions and an ultimately flexible workflow to a wider user base. Quantum 338 puts a trio of 17-inch, 1000 nit, high brightness multi-touch screens, with both the meter bridge and soft quick select buttons displayed on each screen for quick, intuitive operation. In addition, 70 individual TFT channel displays join the floating Quantum chassis

> with 38 100mm touch sensitive faders laid out in three blocks of 12 fader banks plus two dedicated user-assignable faders, each with high resolution metering. The

Quantum 338 has all the features needed for every scale of production.

DPA 4099

The 4099 CORE brings more clarity and details music, across the entire dynamic range. CORE by DPA is a powerful new technology at the heart of DPA miniature microphones with minimized distortion



This microphone model can reinforce an entire orchestra. The mic can be connected to another instrument following the right type of clip and is mounted correctly. The 4099 Series gives a much more natural sound than any clip-on microphone or pickup. This condenser microphone rejects unwanted noise and accurately captures the true voice of your acoustic instrument.

The 4099 CORE also features an enhanced shock mount design, providing excellent isolation from handling noise

> or lightweight versions, depending on the application – both are designed to withstand the rigors of daily use. A versatile, integrated

gooseneck extender provides easy and repeatable mounting.

All CORE by DPA technology microphones, including the 4099 CORE, is IP58 certified. This durability is achieved through several defense mechanisms.

Klang DMI Klang

DMI-KLANG is the first hardware product after KLANG and DiGiCO joined forces. The FPGA architecture enables 16 immersive in-ear mixes for 16 musicians of 64 input channels single and double speed sampling rates at latency of a quarter of a millisecond. Integrated into a DMI card it connects directly to the SDs internal audio stream without any additional hardware IO



or overhead. Route any audio channel from the console to DMI-KLANG and return the mix to the Aux merge input. Mounted into a DiGiCo OrangeBox the DMI-KLANG can be connected to any console with e.g. MADI (Optical, TP, BNC), Optocore, Dante and many other available DMI expansion cards. This unrivaled mixing capability makes DMI-KLANG the perfect companion for any monitor engineer who needs to deliver better mixes with lower levels to their artist

GrandMa3

The grandMA3 represents an elegant new system architecture that incorporates new fixtures, features, and effects-handling at its very heart. The system features a huge multi-touch



screen surface area; All dedicated encoder and playback information is accessed directly on the letterbox screens allowing the larger screens to be fully-configured to suit user needs. grandMA3 breaks the limitations of Local Area Networks (LAN) with the ability to access Wide Area Networks (WAN). Software updates, technical support, online help and fixture downloads are to be supported within the WAN framework. Using the advanced MA-Net3 protocol, grandMA3 systems can output up to 250 000 parameters. There are three sizes of grandMA3 processing units to expand the console parameter count

The grandMA3 control software utilizes a flexible new fixture concept, developed to replicate the real-world physical components of the most complex fixtures. grandMA3 supports the new GDTF (General Device Type Format) protocol natively.

Elation Professional Fuze Profile

The FUZE PROFILE™ is an automated LED framing fixture designed for theater, television and a wide array of other precision lighting applications. The 92 CRI

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engine utilizes a 5-color homogenized LED array consisting of Red, Green, Blue, Mint, and Amber sources. The carefully tuned LEDs ensure accurate color reproduction while delivering a powerful output of over 10,000 lumens. Virtual color temperature, Magenta / Green adjustment plus CMY emulation provide the designer with immediate access to the impressive LED color array.

The FUZE PROFILE is designed for any application where fully automated ellipsoidal fixture with outstanding and impactful color range and quality is required. A rotating gobo wheel, fixed gobo wheel, animation wheel, frost, prism and iris round out its comprehensive feature set in a compact, quiet and lightweight fixture.

Focusrite Clarett+

Clarett+ USB audio interfaces for PC and Mac, which build on the strengths of the previous Clarett ranges.

The reduced THD+N (total harmonic distortion plus noise) performance on the analogue inputs provides an even representation of the source signals without unwanted colouring or distortion. Clarett+ enable you to hear every detail and achieve a clearer and purer sound. Applicable to quiet source signals where the gain is high, such as with an acoustic guitar, strings, lead instruments, and vocals involving a lot of rests or pauses.

The D-A converter is used in conjunction with filter circuitry and gives greater control on mixes and retains clarity. A lower D-A converter noise floor highlights the variations in mixes and recordings, with low-level detail, allowing to multi-track with confidence.

The improved headphone outputs and DAC performance provide a representation of the source at all levels

— on any headphones — and inform decisions at every stage of the creative process. Powerful outputs cater for varying headphone impedances, without the need for a headphone amplifier. Clarett+ excels in both quiet acoustic sessions and loud drum recording environments

Genelec W371A Adaptive Woofer System



The W371A seamlessly complements our 8341A, 8351B and 8361A models to creates a series of full-range monitoring solutions with unrivalled neutrality and supreme control of directivity and the effects of room acoustics. Experience all the benefits of a main monitor, but with the freedom to locate this free-standing system in optimal positions within your control room; even providing the option to switch between nearfield and main monitors without image-shifting. The W371A tailors system performance carefully to the room, offering flatter, smoother in-room response with more coherent LF imaging. Three different operating modes allow a choice of flat and neutral LF response avoiding 'acoustic notching', continued directivity of the main monitor down to the lowest LF frequencies, or reduction of detrimental reflections by the walls, ceiling or floor of your room. The W371A then uses GLM software to select and optimise the signal processing for the best LF radiation mode, taking into account both the monitor location and listening position.

1. SPL - 120 dB

- 2. Frequency Response 23 Hz 500 Hz ("-6 dB")
- 3. Driver Dimensions:

 ☐ 356 mm Bass +

 ⊠ 305 mm Bass (view in inches)



JBL EON ONE Compact

JBL EON ONE range of portable PA systems is an ultra-portable, all-in-one PA system that delivers a loud output with bass response in its class. The eight-inch woofer and one-inch tweeter The Bluetooth make it easy to stream audio from mobile devices or link up to four speakers via the JBL EON Compact Connect app.

JBL VTX A8

The VTX A8 line array element delivers JBL Professional's flagship VTX A Series technology in a compact solution for small to mid-size rental and installed applications. The VTX A8 is designed to solve the diverse sound reinforcement needs of production companies, rental houses, theatres, houses of worship, as well as production applications requiring front fills, side arrays or other auxiliary support for larger-scale VTX systems. The A8 combines two 8" woofers, four 3.5" midrange drivers and two 2" high-frequency drivers in a single low-profile cabinet. Proprietary double-flared low-frequency ports, precisely calculated for greater low-frequency performance extend the usable operating range down to 49Hz. The VTX A8 shares the VTX A Series' patented rigging mechanism and suspension system for streamlined deployment, while a comprehensive suite of accessories



produce 112 dB of full-range output from 37.5 Hz to 20 kHz, providing loud, uncompromising sound with extended low-end. A built-in four-channel mixer makes it easy to dial in a balanced sound, and optional automatic ducking ensures that speech is heard clearly over music. Advanced onboard Lexicon DSP includes reverb, chorus, and delay, with up to eight bands of dbx EQ for supreme versatility.

The Compact features an ergonomic carrying handle for easy transport. Its rechargeable battery lasts up to 12 hours and is easy to remove and replace for non-stop performance. Two combination XLR/TRS

for any application. **JTS R-4 Series**

provides a variety of configuration op-

tions. Used on its own or in conjunction

with the VTX B18, A12 or A12W, the VTX

A8 expands the JBL VTX A Series to offer

audio professionals a complete toolset

for designing optimal sound systems

The system is designed with JTS

newest technology. squeezed system proble channels width. The system in

generation wireless To cope with the radio spectrum the vides more compatiwithin limited band-R-4 is a 4 channel a 19" one U case.





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.

are designed to be cascaded. It provides great convenience to installation.

JTS patented REMOSET feature sends all microphone data by pushing of one button. Moreover all 4 microphones can

receive correspondent data at the same time after one pushing.

LD Systems MAUI 44 G2

This product is the flagship of the MAUI series column PAs: it offers an enormous 1.500 watts of total output (RMS) with a frequency response of 37 Hz to 20 kHz and a sound-level pressure of 132 dB (peak). With outstanding sound properties and wide-ranging functions, this compact column PA is perfect for rental companies, musicians, small clubs, street festivals and permanent installa-

tions. The cardioid properties of the column elements and the possibility of creating a cardioid bass with an additional subwoofer further highlights the professional nature of this sound system. The column achieves a rear attenuation of 18 dB, the subwoofer 15 dB. The two-part column is equipped with twelve 3.5" neodymium full-range speakers and four 1" HF drivers with waveguide. The four tweeters feature specially designed and optimised compression drivers coupled to a constant directivity waveguide to provide 120° of coverage across the width and 25° of focused vertical directivity.

LEA Professional Connect Series

Network ConnectSeries professional amplifier enabled with the Internet of Things- (IoT) suited for small to medium-scale installations.

These two, four, and eight-channel amps feature direct HiZ (70V or 100V) or LoZ selectable by channel. With three ways to connect, engages the builtin Wi-Fi access point, connect to the venue's Wi-Fi, or use the FAST Ethernet



to connect to any local area network via Cat5 or Cat6 cable. The Direct LoZ and HiZ (70V or 100V) selectable per channel with Proprietary Smart Power Bridge allows the user to bridge a channel to achieve double the power of that channel without sacrificing an amplifier channel. The amplifier features cloud connectivity that allows remote control, monitoring, and notifications, to any personal devices

The Web Browser-based UI – works on any device with no software to download and 96kHz Analog Devices DSP with Input Routing, multiple 48dB/ Oct crossover filters, 8 Parametric EQ filters, user-configurable speaker limiters, and real-time load monitoring. The Direct LoZ and HiZ (70V or 100V) selectable per channel with Proprietary Smart Power Bridge allows the user to bridge a channel to achieve double the power of that channel without sacrificing an amplifier channel.

Mackie ProFXv3

Mackie ProFX6v3 features two Onyx preamps and a versatile GigFX engine for high-resolution recordings with sample rates up to 192 kHz. Paired with the Waveform OEM software bundle, for an ultimate workstation for recording, streaming, and creating content. The Mackie ProFX6v3 has a high-resolution effects engine for sound with 24 incredible effects. Mackie ProFX6v3 is optimized for USB recording at sample rates up to 192 kHz. The 2X4 I/O sends separate mixes from computer to headphones and the channel strip—professional workflow at its finest. latency-free direct monitoring with dedicated control to blend between your DAW and channel inputs. Waveform OEM is a workstation, featuring powerful and creative tools to inspire the modern musician, Introduces 16 contemporary FX plug-ins for use with any DAW. These plug-ins utilize the very latest



algorithms and coding techniques to deliver extraordinary sound quality in an

> extremely efficient package, allowing the plug-ins to be used liberally across a wide range of native computer systems.

Madrix Aura (Standalone playback Unit)

The MADRIX AURA is the central stand-alone controller for simple recording and large-scale pixel mapping. It redefines what is possible in a compact control unit with exceptional

performance. Stand-Alone Playback controller Independently runs light shows from this energy-efficient playback unit via Art-Net or Streaming CAN and can easily control up to 2, 8, or 32 universes per device

Live Recording enabled Aura lets you record any Art-Net or Streaming ACN network stream onto the inserted memory card. Central Hub simply

connects compatible MADRIX hardware

interfaces or third-party nodes to provide the correct output for your lighting fixtures. The MADRIX AURA is available in three versions, AURA 2, AURA, and 8AURA 32

Martin Audio CDD

Coaxial Differential Dispersion technology delivers more consistent audience coverage than systems with fixed dispersion X° x Y° horns — projecting more output to the rear of the audience

to distribute sound evenly front-toback while having wide horizontal coverage close-up. Injected moulded ABS moulded in rigid UPM Formi — a natural fibre composite material which combines

stiffness with internal damping properties. All models feature sophisticated internal rib structures to reduce weight and increase rigidity, and the speaker baffles are machined from birch ply.

Enhanced DSP and FIR based pre-sets deliver the absolute maximum performance and fidelity while limiter settings protect the integrity of the system. CDD Series incorporates an innovative static

waveguide that merges seamlessly with the unique cone shape maintaining the dispersion pattern out to very high frequencies. A Differential Dispersion horn has a 3D trapezoid dispersion pattern which covers a room more evenly than



Martin Audio CDD

a system with a conventional, fixed-dispersion X° x Y° type horn.

Neumann NDH 20

The Neumann NDH 20 is a closedback headphone combining isolation with the carefully balanced sound image and outstanding resolution you'd expect from a Neumann product. 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 NDH 20 uses newly designed drivers (38 mm/1.5") with high-gauss neodymium magnets to ensure high sensitivity and minimized distortion, allowing the user to listen to the pure audio signal without unwanted coloration. The mechanical construction with adjustable headband is made of flexible steel while the ear cup covers are machined from lightweight aluminum. For easy transportation the headphone is foldable and can be placed into the supplied soft cloth bag.



Two detachable cables (one straight, one coiled) and a 6.3 mm (1/4") adapter are also included. The NDH 20 is suited

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to all applications that require high sound isolation such as monitoring for musicians and engineers in the tracking room as well as FOH work.

Neumann KH 750 DSP

The compact KH 750 DSP is the ideal choice for smaller rooms and smaller studio monitors. It has a unique and flexible Bass Manager (2.0/0.1), analog and digital inputs, four routing modes and adaptable acoustical controls to be used in many different configurations.

The 10" long-throw driver has a strong linear working magnet system with ELFF technology (Extremely Linear Force Factor). As subwoofers are usually placed on the floor, a robust grille protects the driver from accidental damage. The ultra-compact cabinet is a closed design which brings the fastest possible transient response.

The two analog XLR inputs are balanced as are the two analog XLR out-



puts. The 192 kHz / 24-bit digital input can accept AES3 and S/P-DIF signals.

N-Labs X8D

The X8D is a 2-Channel 8000W power amplifier with DSP. It is ideal for Mid and High frequency, stage monitors, sub-woofers, cinema and FOH. The amplifier has a tunnel design to keep it cool from the inside with a special auto cutout feature in each channel which shuts down the audio in case of a short-circuit or wrong wiring. It automatically restarts again without resetting. The unique TITR Circuit design is loaded with four special variable speed coil fans with high-density



Radiator design used in Aviation which helps the amplifier to stay cool and stable for long-term usage. The X8D can be used for a range of applications like Live sound, DJ system, road shows and rallies, installations, and line arrays.

NX Audio Indra Series



The INDRA series uses Y25 & Y30 grade Magnets, Taiwan Paper and Spider plus two-layer copper wire on Glass Fibre Polyamide Voice coils and can deliver fantastic SPLs. The tonal quality is further enhanced by using a heavy-duty cast aluminium frame ensuring increased rigidity. The optimized ferrite motor produces a strong and symmetrical flux density in the gap, allowing a high value of SPL, thrilling dynamics and very low distortion. The monstrous 18" (1810) driver has an output of 1000W RMS delivering peak performance & a very good punch. There is a 4" voice coil fitted into the Indra 1810 which makes it ideal for sound reinforcement for bass & subs. The Indra 158 & Indra 156 are mid-bass drivers that can rock a variety of applications and functions. The tonal quality of these amazing speakers is very clean and delivers great results. The Indra 158 is a 15" 800W speaker whereas the Indra-156 is a 600W Mid Bass Driver.

P Audio E10-300 A

The P Audio E10-300A is a 10 inch (254mm) diameter piston that produces extremely high sound pressure levels at both low and mid-band frequen-



cies ideal for live sound and recorded music venues. The transducer uses high energy ferrite based magnetics to achieve a very high acoustic output to weight ratio with a die-cast aluminium design that insures a very high degree of structural integrity. The E10-300A has been optimized for use in two way or three-way sound reinforcement systems and has an operating range of 50Hz to 5000Hz.

The E10-300A features a large threeinch diameter voice coil that provides, an AES rated 300 watts of continuous

power handling and 1200

watts rated power handling.

The E10-300A utilizes P Audio's Auto Balanced Cooling (ABC) technology improves transducer power handling, and reliability, and increases power compression performance by balancing and directing

design is a bobbin wound geometry with P Audio's edge wound rectangular wire technology for conversion efficiency and provides a large cross-sectional area for superior cooling.

airflow to critical

areas. The voice coil

Powersoft Quattrocanali 8804 DSP+D (install)

Quattrocanali 8804 DSP+D offers the traditional sound quality and reliability of all Powersoft products. The patented SRM (Smart Rails Management) technol-

QSC CX-Q Series

Q-SYS CX-Q Series features four-and eight-channel models, capable of delivering customized power output loading and total maximum power of up to 8000 W. Low impedance, 70 V or 100 V direct drive are available on all channels. Seamless drag-and-drop integration provides audio transport, control, and status data, providing superior system performance. Furthermore, cryptographically signed firmware hardens



the security of your amplifier.

Fifth-generation high-efficiency, Class-D hybrid offers both high voltage and high current operation with excellent audio quality and thermal performance. Two QSC signature technology innovations (FlexAmp and FAST Technology) are combined for asymmetric output channel loading and support a wide variety of options, making for an incredibly versatile amplifier platform and eliminating the need for multiple speciality amplifiers. Eight bi-directional GPIO connections, accessible anywhere



ogy allows to maximize the efficiency of the system and drastically reduce power consumption in any load and usage condition. Quattrocanali features the lowest thermal dissipation in the industry, reducing the need for external cooling devices.

Quattrocanali is designed to operate with Lo-Z (from 2 Ω) and 70V/100V distributed lines or any mix of the two. DSP+D versions of the Quattrocanali grant in-depth control and monitoring via ArmoníaPlus, tailoring the sound and managing the system can be done by a remote, decentralized location. This Amplifier Platform can also be trusted in mission-critical applications,

such as fire alarm systems, thanks to the cleverly engineered power supply that allows reliable operation even when connected to a UPS on the Q-SYS network, provide further control integration opportunities for third-party peripherals. Built-in energy-saving modes ensure that CX-Q Series amplifiers draw the minimum amount of AC power while still providing outstanding audio quality.

RCF HDL 26-A

The RCF HDL26-A is an ultra-compact bi-amped two-way active touring system for small and medium-sized events, both indoors and outdoors. Due to the advanced transducer design and the 2000W Class-D amplifier, among the best in its class, it is capable of an





SHINING THE SPOTLIGHT ON EMERGING LIGHTING DESIGN TALENT

Curated by: Ulhas Sahasrabuddhe SSL Media Technology & Solutions Private Limited



WITNESS INNOVATIVE LIGHTING DESIGN CREATED USING PIXEL PADDLE MI BAR, LED SCREENS AND MOVING LIGHTS

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extended bottom-end and a pristine sound for a wide range of applications, alone or in RDNet managed line-array configurations. The HDL 35-AS is the ideal flyable bass complement for the HDL 26-A array system.

RME 12Mic

The RME 12Mic is a twelve channel remote controllable microphone preamplifier with no-compromise A/D conversion, integrated AVB and MADI connectivity, and a multitude of features designed to make it a perfect companion for any professional record-



ing. Studio-quality conversion; remote controllable gains plus a multitude of additional functionality, makes it a perfect companion for any professional recording setup. The 12Mic shines with an outstanding signal-to-noise ratio on all channels. All twelve front-facing XLR connections accept microphone and line level signals, whilst the first four connections also accept TRS connectors, with switchable high impedance (Hi-Z) for instruments. Three optical ADAT outputs provide up to 24 channels of audio at single speed, or 12 output channels at 96 kHz sampling rate, ensuring compatibility with a wide range of audio interfaces. Any signal reaching the 12Mic can be routed and streamed over a network with fixed latency and guaranteed band-width - no switch configuration is required

Robe Forte

Forte with transferable engine technology maintains light quality with revolutionary self-referencing, and data capturing engines that are designed,



developed, and manufactured with Robe patented technology. Output loss at the narrow zoom setting is taken care of via our ingenious Robe Patent-pending narrow zoom output boost, improving performance by over 15 %, giving an increased output, for sabre like beams. The CMY colour mixing system provides smooth colour transitions combined with two colour wheels, CRI 80 and 90 filters (HP Engine), and a variable CTO from 3.000 - 6.700 K.

FORTE gives control via ultra-precise patented framing shutter system, with separate blade control and the entire assembly capable of +- 60° rotation; Cpulse PWM control and direct Plus/

> Minus Green control for broadcast precision; EMS (Electronic Motion Stabiliser) technology, for instant stop and hysteresis elimination. FORTE possesses a

comprehensive protocol suite; USITT DMX 512, RDM, ArtNet, MA Net, MA Net 2, and sACN. REAP (Robe Ethernet Access Portal) for direct communication over Ethernet networks.

Sennheiser Evolution Wireless Digital

Evolution Wireless Digital provides a dynamic range by automatically securing the signal in a matter of seconds and scalable up 90 channels due to 56 MHz of tuning bandwidth. The Digital transmission operating in the UHF spectrum greatly enhances range, reliability,

Evolution Wireless Digital features equidistant tuning grid quality components with exceptional linearity to eliminate intermodulation between EW-D transmitters, allowing frequencies to be equally spaced every 600 kHz alongside each other. The auto scan creates reliable connections with minimal time and effort. The Smart Assist App connects via Bluetooth Low Energy for a streamlined setup and operation at a distance powered by the Lithium-Ion battery pack delivers up to 12 hours of operation. The dB audio input dynamic range eliminates the need for sensitivity adjustments and preserves every detail.

Sennheiser IE PRO **Series (100)**

The IE 100 PRO innovative diaphragm delivers sound in extremely loud environments, every DJs prefer the IE

aspect remains distortion-free and defined. Musicians and

100 PRO for its exceptional sound and high wearing comfort for live sessions and production.

The dynamic 10-mm broadband transducer for powerful, precise monitoring with a driver system that reduces acoustic stress factors through homogenous, distortion-free reproduction, it resonates easily, at maximum sound levels. Phase problems and dissonances in the inner ear are therefore also precluded. Featuring an Innovative single driver design allows for a slim and ergonomic construction with excellent shielding with an optimized earpiece and flexible silicone and foam tips that meet the high expectations and withstand high stresses. Incorporated with Stage-proof cable with internal cable duct designed to provide the necessary reliability. Earplugs in three sizes provide a comfortable fit for every auricle. They shield the environment with passive noise cancelling and remain comfortable even after hours of use. The series also features IE 400 Pro & IF 500 Pro In-Far Monitors launched in 2019

low-frequency response and improved off-axis consistency read accurately, even when not speaking or singing directly into the mic. The mic keeps audio production clean with best-in-class, low self-noise, and dynamic range.

> Shure Twin-Plex features Interchangeable sweat- and moisture-resistant frequency caps that prevent sweat-outs and dual redundant ground for sec-

ondary shielding and cable longevity. The cable is incorporated with Ul-

tra-thin, paintable and 16 mm cable that are immune to memory effects. for the rigours theatre, TwinPlex phones are built to diverse needs of fessionals in every with reliable

1.1 mm options kinks and Designed of the microtake on the audio prosetting, clarity for



Shure TwinPlex

TV and film, tailored-for-speech audio for speaking appearances, and discreet durability for broadcast usage.

Shure Axient Digital AD40



Shure TwinPlex Subminiature Omnidirectional Lavalier and Headset

Shure TwinPlex with twice the surface area of other microphones for ultra-pristine, natural response and robust



Axient Digital offers dual and quad receiver options that feature Quadversity mode for extended antenna coverage, switchable XLR and AES3 outputs, offering a wide tuning range of up to 184 MHz. Configurable Ethernet switch for redundant Dante or AES67 digital output with Switchable XLR and AES3 outputs ensures solid performance in challenging RF environments. The front panel headphone jack enables Dante Cue and Dante Browse monitoring with True digital diversity reception per channel for drop-out resistance. The Channel Quality meter displays RF signal-to-noise with locking AC connectors options bringing a new level of management and flexibility to your entire workflow.

Studiomaster Professional Orb 402 SC Mixer

Orb 402 SC - a compact 4 channel mixer with dual functionality of playback and recording on a pen drive or a PC via USB audio interface. The mixer comes with two USB audio interfaces, one on the front panel and one on the



rear. As the USB audio interfaces are class-compliant, no separate drivers are required, making it compatible with virtually any DAW or software application.

Leveraging a high-resolution 24-bit/48kHz sampling rate, the Orb 402 SC integrates a

DSP-based Multi-EFX processor with 24 presets and the ability to route the processed signal to monitor via AUX. Designed to be compact, the Orb 402 SC has abundant input, output and routing options. Other features include high definition preamps, +48V phantom power supply and responsive 60mm faders. With an ergonomically-angled design, classy side cheeks and compact form factor for desktop use, the Orb 402 SC is ideal for musicians, podcasters, content creators, YouTubers, audio conferencing applications and much more.

Waves eMotion LV1



eMotion
LV1 is a fully
modular software-based
mixer, with
your choice
of 64, 32 or 16
stereo channels. It
can run up to 8 plugins
per channel and mix a total of
44 mix buses, facilitating 16 monitor
mixes, 8 FX buses, 8 groups, 8 matrices,
and LRCM masters, with the ability to
connect and share up to 16 I/O devices.

LV1's signature Waves Double Precision 32-bit floating point mixing engine is always ready to deliver pristine sound quality with up to 96 kHz sample rate.

Yamaha RIVAGE PM5

The RIVAGE PM5 Mixing System packs undiluted RIVAGE PM power and performance into a lightweight, intuitive console that is surprisingly slim. The addition of a third display screen has made it possible to offer a more touch-centric interface in a compact, significantly lighter console that is easier to transport, setup, and operate in a wide range of venues. The RIVAGE PM5 has a slim design that brings the touch-sen-

sitive displays closer to the operator for incredibly smooth, comfortable control. This evolved console design also provides a closer connection to the performers on stage with improved sight lines that give the engineer a broader, more comprehensive view of the action. The three 15-inch large, high-visibility displays present essential controls and information in one place in a clear, well-organized format, so the engineer can read and react to situations with maximum speed and efficiency. Although it offers heavy-duty performance and features, plus a comfortably spacious interface, the RIVAGE PM5 weighs only 42 kilograms it can be easily carried and positioned by just two people.



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OUTSTANDING CONTRIBUTION TO THE **PRO AUDIO** INDUSTRY

Honouring the Legacy

This year PALM + AV-ICN is honouring the AHUJA FAMILY for their Leadership of over Eight Decades in the Pro Audio Industry with the Lifetime Contribution to The Pro Audio Industry Award at the PALM Sound & Light awards. This award recognizes over Eighty Years of innovation, quality & reliability of brand AHUJA in meeting the demands of Pro Audio products in India. This award acknowledges their commitment to creating a manufacturing and distribution infrastructure that persistently delivers an Indian product to the Indian market at affordable prices. In this interview with Sandeep Ahuja, Sr. Vice President of Ahuja Radios talks about the Ahuja legacy in the Pro audio industry and unveils the company's visionary plans for the future.

hat are the highlights of Ahuja Family's eventful journey and progress points in the Indian market? Please elaborate on some defining milestones.

Ahuja Radios owes its inception to the visionary zeal and courageous initiative of its founder A.N. Ahuja, who in 1940 espoused and championed the philosophy and concept of "Atmanirbharta" or self-reliance, which has become a buzz-word only today. He started manufacturing PA products under the AHUJA brand. Ever since the AHUJA Group has progressed continuously achieving one milestone after another.

First, an important milestone in this long and glorious journey was when Ahuja Radios started exports in the year 1952 to Burma followed by exports to South-East Asia, Middle-East and Africa.

Foreseeing a bright future for Ahuja Public Address equipment in India, a larger factory was commissioned in 1958 in Okhla Industrial Estate, New Delhi, which was inaugurated by the then Prime Minister Pandit Jawahar Lal Nehru.

Ahuja exports gained momentum in

1973 with forays into developed European markets like Switzerland, Germany, the UK, Netherlands etc. Today, the exports span over 45 counties across 5 continents.

R&D has always been an area of strength since the 1950s keeping pace with the developments in the Audio industry around the world like the introduction of the first Stereophonic



Senior AHUJA Management Team (L TO R) Vikram Ahuja-Vice President, N S Ahuja - President, Sandeep Ahuja - Sr. Vice President and Arjun Ahuja - Vice President

Amplifier in India in the year 1960. It was in 1976 that the Ahuja R&D department was recognized by the Department of Science & Technology, Govt. of India.

In 1977, Ahuja set up a manufacturing facility in SEEPZ (Mumbai) followed by an expansion in manufacturing facilities in Noida, U.P. in the year 1984.

Since the early 1990s, Ahuja has been receiving awards for outstanding Exports Performance as well as the National Quality Award in 2006 by Govt. of India

Another proud moment for Ahuja came in the year 2013 when like all previous editions, Ahuja amplifiers & speakers were installed for public

address at World's largest human congregation - MAHA KUMBH MELA, Allahabad attended by 100 million devotees. 4800 Ahuja speakers spanning 58 sq. km. the area worked trouble-free for 55 consecutive days.

Ahuja products were installed at Delhi & Lucknow Metro in 2016. Similar success was replicated thereafter in other Metro networks across the country.

Ahuja completed 80 Years of service to the Public Address & Pro Audio industry in the year 2020 and is poised to take giant strides into the future.

Tell us about Ahuja R&D and manufacturing in India?

As highlighted above Ahuja has

always had a strong R&D set-up and highly-skilled engineers and technicians who are responsible for developing products and keeping abreast with evolving needs of the Pro Audio & PA users. Transitioning from Valve-based amplification to Semiconductor technology, and from Record Changers, Reel type Tape-Recorders, and Cassette Recorders, to Digital Players, AHUJA R&D has always been proactively introducing new technologies in the products. The current Ahuja range covers around 400 reliable products for discerning public addresses or Professional Sound customers. Modern manufacturing facilities across Delhi NCR have always ensured



the seamless supplies of the entire product range to the users.

Do you see an explosion in Indian manufacturing in Pro Audio?

Govt of India has been encouraging local manufacturing across various industries and the world is also looking at India as a reliable manufacturing hub. In this context, Ahuja has been scaling its manufacturing facilities to meet the growing demand.

Is innovative technology and low cost manufacturing the main strength of Ahuja or is it your vast distribution network?

Actually Both. Ahuja has always harnessed technology to develop reliable products keeping in mind the end-users, the actual application of the products in diverse climatic conditions, as well as ease of servicing, and leaving a decent amount of headroom for unintentional misuse

Ahuja also considers its association with dealers as the most sacred and has preserved these relationships for years together. Dealers' feedback, suggestions and advice are taken most seriously at all levels of management and ownership. Maintaining good relations with over 500 dealers in PAN India ensures perpetual loyalty and makes them AHUJA brand ambassadors.

We are seeing that online sales are impacting the Pro Audio industry in India. What or how much is Ahuja's success with online sales?

Both online and offline channels will co-exist. For a selected range of standalone or plug-and-play products, online channels may be a convenient option for the consumer, but for sound reinforcement solution-based needs, requiring design and installation, personal involvement and interaction with dealers and installers cannot be dispensed with. Therefore, the well-equipped offline channel continues to play a crucial role in the sales & promotion of Pro Audio & PA products.

What is your vision for Ahuja for the future?

India is witnessing a major thrust and focus on infrastructure development across various sectors including SMART cities. Ahuja sees this as an opportunity and is committed to contributing to this by offering suitable international standard Public Address & Pro Audio products and solutions, for times to come to uphold our leadership position.



The Most Admired Indian Manufactured Electronics Brand-Awarded by Elcina



AV ARCHITECT OF THE YEAR

NARENDRA NAIDU

Chairman and Managing Director, Rhino Engineers Pvt. Ltd.

Awarded for highest standards in adopting best innovation and vision in AV Architecture

This award has been instituted for an AV Architect chosen by AV-ICN platform to be recognised for the quality of his body of work, incorporating the best innovation and vision in AV architecture. In this feature, we highlight one of the most prestigious projects accomplished by Narendra Naidu – The Statue of Unity.

ALM AV-ICN platform dedicated to Audiovisual Communication and Audio Video Integration and Networking has instituted the **Best AV**Architect award as a Recognition of Excellence in AV Integration.

With this award AV-ICN aims to recognize professionals who have achieved excellence in adopting latest technologies in AV Architecture Design, Installation and Program.

This year, for his exemplary work for the **Statue of Unity Project and other**

visitor attraction projects, the Best AV Architect 2021 award is being conferred on Mr. Narendra Naidu, Managing Director, M/s. Rhino Engineers Private Limited

October 31st, 2018 marked the inauguration of the world's tallest statue – The Statue of Unity in Kevadia, Gujarat. The approximately 600 feet statue is dedicated to the Iron Man of India - Sardar Vallabhbhai Patel. The colossal monument towers over River Narmada and the sprawling Sardar Sarovar dam.

The innovative, dynamic design of

hospitality, tourist and entertainment projects in the vicinity of the Statue of Unity site, including amongst others, the Jungle Safari, a state-of-art zoological park with unique collection of indigenous and exotic animals and birds from the various biogeographic regions of the world; the Children's Nutrition Park, a unique theme park providing entertainment and vital knowledge to the children on healthy eating habits and nutritional values; Vishwa Van, a global forest which is home to herbs, shrubs and trees native to all 7

continents, The **Valley of Flowers** (also known as **Bharat Van**), spread across 24 acres of land is a haven for colorful flowering plants along the bank of river Narmada and **Ekta Mall**, which houses handlooms, handicrafts and traditional textile showrooms from various states of India to promote Indian Handicrafts; The **Cactus Garden**, a unique botanical garden exhibiting a huge variety of Cacti and succulents.

The brief from the client, M/s. **Sardar Sarovar Narmada Nigam Limited (SSNNL)**, was that the digital media





technology had to be unique, innovative, and attractive, not seen before. Commenting on the concept of the project, Mr. Naidu says, "The vision of the government with regards to Statue of Unity at Kevadia was grand, and inspiring. Honestly, initially I felt some trepidation trying to create something that matched the vision of the project, but after sharing my initial designs, I was relieved that the client understood and backed my ideas and concepts. Of course, the identity of our project is so different, and I think our installation takes into account local culture and transitions. We matched the requirements of the brief given to us and what we have created delivers a wow-factor & something innovative while staying true to the original push of the govern-

No project comes without its share of challenges. "There were a number of challenges for this project. When work started it was already monsoon season. All our lighting required the installation of electrical equipment, and you can imagine that all these tasks are complicated when it rains. Because of the bad weather we were also concerned if we would be able to deliver the project on schedule, however we successfully competed it within just six months. Lastly, this was a project with a number of stakeholders such as the agency, government department and local municipality. We had to make sure all of them were brought on for strategic decisions which required a fair bit of coordination," explains Mr. Naidu.

Some of Mr. Naidu's other successful projects in Digital Multimedia Technology include the Mahatma Mandir Convention Centre, Gandhinagar; RJM Auditorium at IIM, Ahmedabad; Dandi Kutir Museum, Gandhinagar; Mahatma Gandhi Museum Rajkot, Morarji Desai Museum, Valsad; Children Nutrition Park, Kevadiya; Dinosaur Museum, Balasinor (Phase 1&2).

Indian's Biggest 3D Projection Mapping on Gabber Hill at Ambaji; Somnath Temple, Veraval, Amar Javan Jyoti, Jaipur, Dhyana Buddha Statue, Amaravati & Mahatma Gandhi Museum, Rajkot, Kankaria Lake Periphery, Ahmedabad, **Dwarika Temple**, Ambaji Somnath Dwarka & Siddhpur Temple etc.; Façade & Innovative Lightings at Shore Temple, Mahabalipuram Chennai, Dhyana Buddha Statue, Amaravati, etc.; CCTV Surveillance & ELV Systems at Gujarat High Court, Ahmedabad, Mahatma Mandir, Gandhinagar, Jungle Safari, Kevadia, Vidhya Mandir School, Palanpur, Library IIM, Ahmedabad etc.; Smart Classroom Solutions for Indian Institute of Management-Ahmedabad;

Musical Fountain & Laser Show at NTR Beach, Kakinada, Musical Fountain, Amarlingeshwer Vijayawada; Musical Fountain Kankaria Lake, Musical Fountain at Shoolpaneshwar Ghat, Musical Fountain at Chilka Lake Odisha, Musical Fountain at Lakaram Lake Telangana, Musical Fountain at Siddipet Telangana & Sukana Lake at Chandigarh (Proposed) etc. and many more ongoing and upcoming projects.



Name of Project	Scope of Consultancy			
Shrestha Bharat Bhavan	Dynamic RGBW LED Facade Lightings			
Circuit House	Dynamic RGBW LED Facade Lightings			
1.3 KM Sardar Sarovar Dam	25 Minutes Ornamental Laser, Light & Sound show			
Jungle Safari	CCTV Surveillance & Network System			
Children Nutrition Park	Digital technologies, ARVR, 3D Projection, Hologram, Interactive LED Screens, 5D theatre & Other cutting edge tech games & Facade lighting			
Hillock & Roadside	Trees Green Lightings			
Vishwa Van	Dynamic RGBW LED Facade Lightings			
M&VC Building, Connecting Bridge, Wall of unity, Ticket Counter and Canopy	Dynamic RGBW LED Facade Lightings			
Jungle Safari	PA System			
Palm Island	More than 450 Innovative Glowing palm Trees			
Food Courts	Dynamk RGBW LED Facade Lightings			
Ekta Mall Main Gate	Gujrati, Rajasthani, Kathiawadi Handicrafts blinking Slogan Of "unity in Handicrafts Diversity"			
Ekta Dwar	LED Screen with Dynamic HD Content (Welcorne to Statue of Unity & Thank You, Visit Again) n 7 international and 10 regional languages.			
Dymanic Road Signage	10 X 10 ft, Dance and Garba Illuminated Panels			
Valley Of Flower & Bharat Van	Dynamic RGBW LED Facade Lightings			
India's First Glow Garden	LED Illuminated Trees, Animals and Flowers, Interactive dancing floor circles, Selfie points, State of Art Parachute, Dynamic fountains & Palm Trees etc			
Gora Bridge	Dynamic RGBW LED Facade Lighting and Pixel Lighting			
Street Decorative Lights	India's First Innovative RG6W Illumination Motifs 495 Nos. On street light of 10KM			
Street Decorative Lights	India's First Innovative RGBW Illumination Gantries 48 nos. on street light of 10 KM			
Valley of Flowers	Dynamic Panel -View Point 1 to enterance at valley with slogan of "Unity in Bio-Diversity - Valley of Flowers" and also from viewpoint 1 to flower of Kevadiya Jurassic Park (Letters) with Dinosaur element			
Cactus Garden	India's Largest Illuminated Signage 5X57 Meters			
Butterfly Garden	India's Largest Illuminated Signage 5 X 67 meters			
Ekta Garden	India's Largest Illuminated Signage 5 X 52 Meters			
Reva Bhavan	Green Lights Tree Illumination on Reva Bahva			
Maze Garden	Innovative & Cutting-Edge LED Screens AV Show			
Kamalam Nursery	Curved Projection & 360° Hologram AV Show			
Miyawaki Forest	Curved Projection & Illumination AV Show			
Cactus Garden	Life size hologram AV Show			
Jungle Safari	India's Biggest Augmented Reality LED Screen Show			
Shoolpaneshwar Ghat	25 Min Aqua Screen & Musical fountain in three languages.			
Shoolpaneshwar Temple	Dynamic Lighting & Attractive Motif Lights.			

INDIA



MARKET SIZE US\$219.0 MILLION | GMR 2021 GROWTH RATE +20.3% [2020 +6.1%]

RECORDED MUSIC REVENUES BY SECTOR 2021 (TRADE VALUE)

STREAMING 86.9%

\$190.3m (+22.5%)

World Ranking: 16

DOWNLOADS & OTHER DIGITAL

2.6%

\$5.8m (-36.5%) World Ranking: 13 **PHYSICAL** 1.4%

\$3.0m (+30.7%) World Ranking: 38 **PERFORMANCE RIGHTS** 3.8%

\$8.2m (+56.8%)

World Ranking: 38

SYNCHRONISATION

5.4%

\$11.7m (+16.1%)

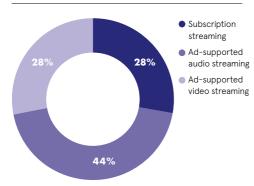
World Ranking: 7

2021 2020

RECORDED MUSIC REVENUES BY FORMAT (US\$ MILLION, TRADE VALUE)

	2017	2018	2019	2020	2021	2021 YoY % change
Subscription streaming	29.7	39.6	41.7	42.5	53.3	+25.5%
Ad-supported audio streaming	24.3	34.9	50.3	70.6	83.2	+17.9%
Ad-supported video streaming	22.9	26.2	35.2	42.3	53.8	+27.2%
Streaming	77.0	100.7	127.2	155.4	190.3	+22.5%
Downloads	0.9	0.8	0.6	0.6	0.4	-25.3%
Mobile personalisation & other digital	12.2	11.0	8.8	8.5	5.3	-37.3%
Downloads & other digital	13.0	11.9	9.4	9.1	5.8	-36.5%
CD	7.3	9.8	9.0	2.3	3.0	+31.1%
Vinyl	0.1	0.0	0.0	0.0	0.0	-54.3%
Music video	0.7	0.0	0.0	0.0	0.0	+2.2%
Physical	8.1	9.8	9.0	2.3	3.0	+30.7%
Performance rights	11.1	14.3	15.8	5.2	8.2	+56.8%
Synchronisation	6.8	8.7	10.3	10.1	11.7	+16.1%
Total revenues	115.9	145.4	171.7	182.1	219.0	+20.3%

STREAMING REVENUES CY 2021



TOP SONGS 2021

- Jubin Nautiyal, Tanishk Bagchi & Nusrat Fateh Ali Lut Gaye
- Tanishk Bagchi, Jubin Nautiyal & Asees Kaur Raataan Lambiyan
- Jasleen Royal & B Praak 3
- Payal Dev & Stebin Ben Baarish Ban Jaana
- Stebin Ben, Nilesh Ahuja & Kumaa Thoda Thoda Pyaar
- Baarish Ki Jave
- Badshah & Aastha Gill Paani Paani
- Sachin-Jigar, Rashmeet Kaur, Shamur & IP Singh Nadiyon Paar (Let The Music Play Again)
- B Praak
- Filhaal2 Mohabbat (feat. Akshay Kumar & Nupur Sanon & Ammy Virk)
- 10 Mann Bharryaa 2.0

TOP 5 DSPS BY NUMBER OF SUBSCRIBER USERS CY 2021 (ALPHABETICAL ORDER)

Amazon Music Unlimited		
JioSaavn		
Spotify	New to the top 5	
Wynk		
YouTube		

TOP ALBUMS 2021

- Shershaah (Original Motion Picture Soundtrack)
- Sidhu Moose Wala
- **Various Artists**
- Mumbai Saga (Original Motion Picture Soundtrack)
- Sachin-Jigar Roohi (Original Motion Picture Soundtrack)
- **Various Artists**
- BellBottom (Original Motion Picture Soundtrack)
- Shiddat (Original Motion Picture Soundtrack)
- **Various Artists** Sooryavanshi (Original Motion Picture Soundtrack)
- A.R. Rahman & Amitabh Bhattacharya Mimi (Original Motion Picture Soundtrack)
- AP Dhillon Hidden Gems - EP
- **Various Artists**

10 Satyameva Jayate 2 (Original Motion Picture Soundtrack)

Total Music Revenue per capita (US\$) **SO.16**

> Year on Year (+\$0.03)

Total Physical & Digital sales per capita (US\$)

\$0.14

Year on Year (+\$0.02)

SOCIAL, ECONOMIC, AND TECHNOLOGY **INDICATORS**

Population (m):	1,400.0
Currency:	Indian Rupee (INR)
US\$ exchange rate:	73.99
GDP per capita (US\$) 2021:	\$1,900
Internet usage penetration:	47%
Mobile internet usage penetration:	43%
Median Fixed internet line speed (Mbps):	47.4 (+32.1% vs 2020)
Median Mobile internet speed (Mbps):	14.4 (+55.7% vs 2020)
Smartphone penetration rate:	43%
Mobile connections at 3G to 5G:	77.1%

INDUSTRY INFORMATION

Chart compiler and publisher information:

www.bmat.com / www.imicharts.com

Performance rights music licensing company:

www.pplindia.org

National recording industry association:

www.indianmi.org

IMPACT OF FILMS ON THE INDIAN MUSIC MARKET



of the top 10 albums are from motion picture films. A phenomenon that is unique to the Indian music market.

TOP INDEPENDENT LABELS (ALPHABETICAL ORDER)

Aditya Music Believe - Ishtar Music Times Music TIPS T-Series Zee Music

[🖈] Song / Album features in the IFPI Global Top 20 Digital Single / Album All-Format Chart 2021. US\$ values: Local currency values are stated at 2021 exchange rates. IFPI restates all historic local currency values on an annual basis. Market values can therefore vary retrospectively as a result of foreign currency movements. The Indian market is not reported on a transactional basis and is reported on the basis of minimum guarantees.



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Professional UHF Wireless Microphone System

UHF Operating Frequency Range: 640 - 690 MHz Two Microphones Can Be Used At The Same Time Individual Channel Output With Level Control & Mix Output

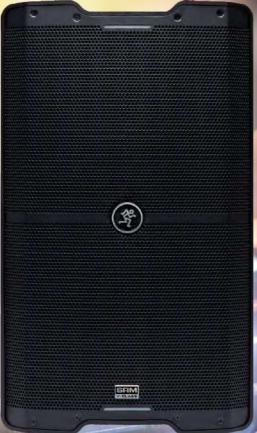




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New Products at PALM AV-ICN 2022

The **Pro Audio & Light Industry** is growing and witnessing emergence of latest technologies. PALM Expo 2022 is showcasing these latest products and technologies on the show floor. This feature highlights the some of the versatile range of products that visitors can expect to see and experience at the expo. The below information is at the time of going to press.

AA B10 Subwoofer

The aesthetically elegant Audible Avenue AA B10 ultra-compact omnidirectional subwoofer smoothly blends in with any variety of décor. The discreet style 10" reflex tuned can be used with other members of the AA series of mid-high cabinets with any permutations and combinations, extending impeccable low-frequency response that adds life to a venue's soundscape. Leveraging the exceptional low frequency of 42 Hz and fast response time of the distinguished 10" 10RS350 excursion driver from Faital PRO in sixth-order bandpass delivers a max SPL of 120 dB (peak) with a max power of 600watts. The AA B10 can effortlessly cover a large room and provide a smoother and more consistent sound experience without dead spots.

Exhibitor: Aerons, Hall No: 1 | Booth No: D55



AI118 Subwoofer



Al 118SUB is a compact, sixth-order bandpass subwoofer designed for installation or portability. With an exceptional low frequency of 40 Hz and fast response time eight ohms, 18" driver, the Al 118SUB is capable of 133 dB SPL weighing 37kg with integrated handles. This conventionally shaped cabinet can be hidden against a wall or under seating when used in multiples. The Al 118SUB can cover a large room and blend nicely with the interior. The discreet design with reticulated foam front and acrylic textured paint finish with multiple integrated fixing points achieve a high-class look suitable for any application. Bandpass Enclosure Design is efficient, creating maximum bass output within a specific frequency range by increasing the acoustic load presented to the driver.

Exhibitor: Aerons, Hall No: 1 | Booth No: D55

AI28 Installation Speakers

The AA 6F brings together best-in-class components featuring Faital PRO's acclaimed 6FE100 mid-range, mid-bass driver, working seamlessly with a high-quality custom-designed rotatable horn and the high-performance DE250 compression driver from reputed Indian manufacturer Aerons India. The precise tuning of AA 6F assures defined and accurate dispersion with 80° x 50° coverage. The internal passive crossover harmonizes to ensure a flat, usable frequency response of 54 Hz to 18 kHz (-10 dB) with a maximum SPL of 115 dB (peak). The AA 6F delivers a crisp and detailed soundscape so that system designers can instinctively use the AA 6F simultaneously with other members of the AA series and stay assured of maintaining a consistent tonal signature across the space.

Exhibitor: Aerons, Hall No: 1 | Booth No: D55



AX340 Stereo

The AX340 is a Professional stereo 2-way/3-way/mono 4-way crossover featuring state-of-the-art Linkwitz - Riley filters with 24 dB/octave have a flat summed amplitude response, zero phase difference, adjustable time delays and cd horn correction. It has Individual output gain controls for all bands & individual output mute and phase reverse switches for easy band adjustment. The shielded toroidal mains transformer ensures minimum RF interference.

Exhibitor: Narain Audio and Lighting, Hall No: 1 | Booth No: B09



CAT6 SF/UTP Ethernet Digital Audio Power-Hybrid Cables

Eurocable CAT6 SF/UTP Ethernet with digital audio and power hybrid cables designed to address the growing need to transmit audio, power and data signals over one cable. These cables include 3 x 12 AWG (3.44 mm²) double shielded power cables, one or two AES individually jacketed and shielded audio pairs and one or two SF/UTP CAT6 to carry digital signals over extended distances.

Exhibitor: Kiran Sales, Hall No: 1 | Booth No: C49



Clio Series Active Loudspeaker



The Studiomaster Professional Clio Series Active Loudspeakers with Class D Amplification Powered loudspeakers are extremely popular with Indian pro audio users. Studiomaster Professional introduced the Clio series – high-performance two-way biamplified active loudspeakers. The series features three models, Clio 154 (15" 400W RMS), Clio 124 (12" 325W RMS) and Clio 84 (8" 200W RMS), carefully engineered for maximum efficiency and punch, making them lightweight and easy for transportation. They also feature easy DSP sound presets such as flat, speech, music, live, and club. The Clio series speakers feature a built-in USB/SD card MP3 media player with playback control and Bluetooth and multiple wired input and output connectivity options. Clio series is one of India's first professional loudspeakers systems to feature True Wireless Stereo (TWS) pairing packed with abundant features. The Clio active loudspeakers are ideal for a myriad of live, touring, installation, and other outdoor mobile PA applications.

Exhibitor: Audioplus, Hall No: 1 | Booth No: B29

Cube Display (P2.5, P3, P4 indoor)

The LED Cube display has Hexahedral LED Screen is Jona led's creative LED display for creative advertising media. The P2.5, P3, and P4 LED cube display can be made by four faces LED display with a pixel pitch of P2.5, P3, and P4. Four faces of the LED Cube display can show four different videos respectively and can display one video as a whole. The special design of the LED Cube Display structure gives the audience a significant feeling and makes the display content 100% more attractive.

Exhibitor: R J Enterprises (Jona Led), Hall No: 1 | Booth No: D45



Delta 10 4FS



The Delta 10 4FS is a powered 18" flying subwoofer amplified by a four-channel digital Class-D energy-efficient amplifier module delivering 1500W per channel. The speaker can seamlessly be flown, over the Delta 930 for Low-frequency extensions. The Delta 10 4FS has a frequency range of 34Hz - 103 Hz and is built in a Birch Plywood Enclosure, employing Speakon Sockets on either side to be easily stacked/flown in a cardioid set-up. The Delta 10 4FS also has three amplifier channels, which can to power up the Delta 930 or the Delta 915 FS, making the system versatile and efficient.

Exhibitor: Vardhaman Megatech, Hall No: 1 | Booth No: C01

Delta 930

British Acoustics's Delta 930 is a 2-way, full-range line array cabinet containing 2x 10" Low-Frequency drivers and 1 x 1.4" exit compression driver. The system can be used as the main PA system with a minimum of 3 cabinets and a maximum of 16 cabinets per array. The Delta 930 Line Arrays are constructed with Birch plywood and are Bi-amp switchable. They feature a unique central rigging system which makes them quick and easy to set up. The Delta 910 is suited to a wide variety of applications. When played full range (55 Hz) at reasonable levels, it qualifies for applications where subwoofers are not required. Increased vertical coverage enables the Delta 910 to cover arenas, live performance venues and even stadiums with added speaker quantities. Other applications include clubs, corporate AV, and House of Worship.

Exhibitor: Vardhaman Megatech, Hall No: 1 | Booth No: C01



DM Series Wired Microphones



The new DM series of dynamic vocal microphones are encased in a strong metal body to withstand the vagaries of nature and abuse on the road. These Cardioid Microphones have excellent sonic performance capsules for Live Sound and deliver value for money. The DM Dynamic vocal microphones have a smooth mid-frequency presence rise for voice projection and Ultra-wide frequency response for a brilliant and transparent sound with extremely high signal output. The DM mics let your voice cut through, and the Shock mount system cuts down handling noise.

Exhibitor: Narain Audio and Lighting, Hall No: 1 | Booth No: B09

DPA100 Power Amplifier

DPA100 combines new technology power amplification with the highest definition XTA DSP. The DPA Series takes audio performance and convenience to a whole new level. DPA100 Inputs of Dante Network Audio x 4, AES3 x 2 (four CHS.), Analogue x 4. Mix matrix for power amp and aux source processing. Dante Network Audio x 4 has an Aux outputs x 4: XLR line level with independent processing and memories.

Exhibitor: Premier, Hall No: 1 | Booth No: E29 & D29





eMotion LV1 Software-Based Mixer

The eMotion LV1 is a fully modular software-based mixer with of 64, 32 or 16 stereo channels. It can run up to eight plugins per channel and mix. A total of 44 mix buses, facilitating 16 monitor mixes, eight FX buses, eight groups, eight matrices, and LRCM masters, with the ability to connect and share up to 16 I/O devices. LV1's signature Waves Double Precision 32-bit floating-point mixing engine is always ready to deliver pristine sound quality with upto 96 kHz sample rate.

Exhibitor: Vardhaman Megatech, Hall No: 1 | Booth No: C01

H series

H Series is NovaStar's flagship all-in-one video splicing processor, designed specifically for fine-pitch LED applications. It is the first All-in-One splicer and controller in the industry, which greatly simplifies system integration. With the leading image processing technology in the industry, the H series can give you an astonishing visual effect, truly making it the perfect solution for fine-pitch LED applications. H series supports numerous layers with an unrestricted arrangement. Each output daughterboard provides 16 layers (Up to 16 layers maximum per port). The layers can freely cross different output loading areas while keeping layer sizes the same. Layers can be in any position, overlapped, or unlimited scaled. It supports functions such as image capture, layer configuration, layer rotation, and more. H Series achieves true 4K (4K x 2K@60Hz, RGB 4:4:4, 10bit) signal collection, processing, and output. It can be configured with DP1.2, HDMI2.0, or other high-definition 4K daughterboards to realize an ultra-high-resolution display.



Brand: Novastar, Hall No: 1 | Booth No: D45 & G29



Hunter LED RGBW Fixture

The Hunter LED PAR RGBW Fixture in IP65 is a powerful and versatile RGBW Fixture designed for various applications like Stage Lighting, Façade Lighting, Architecture lighting, commercial, residential & transportation with a very high Intensity (up to 80 Feet). The Heavy Duty waterproof multi-colour LED Par features a robust design with a steady aluminium alloy die-casting body.

Exhibitor: A-Pro, Hall No: 6 | Booth No: C03

Ixora Moving Head

The Ixora Moving Head with OSRAM Sirius HRI 371W Lamp features thick beam with high intensity moving head fixture with German Technology lamp and compact design for faster movement. Ixora Moving Head runs on power supply AC110V~240V, 50/60Hz and Power consumption of 460W with frost filter for soft-edge projection.

Exhibitor: A-Pro, Hall No: 1 | Booth No: C03



K-LA12A Line Array

The K-LA12A Line Array features innovative BraincoreTM technology and built-in powerful DSP processor with CortTM correction technology and LimitaTM processing technology, the system works with safety and reliability and achieves supreme performance. The innovative ETETM waveguide design and technology can achieve sound performance with perfect sound coverage and excellent frequency response. The moulded waveguide and moulded horn provide precise horizontal coverage and ensure clear and balanced sound for the system. The cabinet is built with fine wood, customized moulded material, and a unique physical acoustic design, which makes the outlook very fashionable, and solid and can lower the resonance. K-LA12A speaker can fly with a 10mm pin, and a customized flying frame with integrated hardware makes the set-up much easier and faster. Users can make free combinations for a bigger or smaller system to meet the different application demands.

Exhibitor: Aerons, Hall No: 1 | Booth No: D55





ARTIST SCHEDULE

DAY 1: 26 MAY	DAY 2: 27 MAY	DAY 3: 28 MAY
1.00 PM - 2.00 PM DRUMS SHIVAMANI & LYDIAN NADHASWARAM (FEAT. RUNAA RIZVII)	1.30 PM - 2.30 PM ADITI RAMESH	1.30 PM - 2.30 PM THERMAL AND A QUARTER
2.30 PM - 3.30 PM 72/35 SOUTHERN STREET	3.00 PM - 4.00 PM MOTHERJANE	3.00 PM - 4.00 PM TA DHOM PROJECT BY VIVEICK RAJAGOPALAN
4.00 PM - 5.00 PM CONFLUENCE BY DIPESH VARMA 5.30 PM - 6.30 PM DARSHAN DOSHI TRIO FEAT. HASHBASS & RICKRAJ NATH	4.30 PM - 5.30 PM TAUFIQ QURESHI FEAT. HIS BAND MUMBAI STAMP & ANIRBAN ROY	4.30 PM - 5.30 PM THE LOUIZ BANKS MATRIXX BAND

EXPLORE HARMAN PROFESSIONAL SOLUTIONS AT BOOTH NO. D-09, HALL-1

Led Standee (P2.5, P3, P4 Indoor/Outdoor)

The Led Standee screen is specially designed to be lightweight, and the cabinet frame and LED parts focus on reliability and portability. Most slim and lightweight designs make the product easy to move and suitable for use in narrow spaces. One Person Job, Easy Transport, save labor cost & time. LED Standee display supports Multi-installation Ways. This product is suitable for bracket standing installation, base-standing installation, lifting or hanging installation, multi cascade installation, and creative installation. No need for a steel structure installs the screen quickly and conveniently.

Exhibitor: R J Enterprises (Jona Led), Hall No: 1 | Booth No: D45





L65+L65A Column System

The L65+L65A system is a compact multi-purpose active DSP column system consisting of a passive full-range column speaker L65 and a multi-channel digital power amplifier L65A with switching power supply and built-in DSP. L65 passive full-range column speaker is built with 6pcs 5" customized Audiocenter ferrite drivers and 4pcs 1" customized Beyma ferrite drivers. The drivers are designed with sophisticated measurements and arranged elaborately by physical calibration technology to improve vertical acoustic beam coverage. The ETE waveguide system developed by Audiocenter forms a cylindrical wave that couples continue to work together with a customized horn design, which realizes the perfect joint of frequency response that provides accurate horizontal coverage and ensures a well-balanced, clear, and clean sound. L65 can meet the reinforcement application in different venues and complex spaces. L65A multi-channel digital power amplifier with switching power supply and built-in DSP is attached to the bottom of L65 and used together with L65 to meet the different requirements of various applications. L65+L65A column system is flyable with a customized flying frame, that can also be pole-mounted according to applications, and be used as the main PA or as side fill, delay etc.

Exhibitor: Aerons, Hall No: 1 | Booth No: D55

Multicore Cat6 F/UTP Ethernet Cables

Euro cable's extra flexible multicore CAT6 F/UTP Ethernet cables have been created to run many data signals in a single cable in mobile applications. CAT6 F/UTP Ethernet is designed for transmitting high bandwidth signals over long distances. They are available in two configurations of four or six Eurocable F/UTP cables in an extra flexible and robust PVC jacket with an overall braid shield.

Exhibitor: Kiran Sales, Hall No: 1 | Booth No: C49





Muse 81 Active Trolley Loudspeaker

Studiomaster Professional's Muse 81 Active Trolley Loudspeaker is a versatile portable wireless PA active trolley loudspeaker system. The speaker features a built-in rechargeable battery, wireless microphone, True Wireless Stereo (TWS) pairing, a unique Sing-along mode, and an MP3 media player-cum-recorder with Bluetooth. Muse 81 has a built-in echo/delay EFX processor and a two-band EQ, with abundant wired input options. The loudspeaker can also be powered using a commonly available 12V DC car/motorcycle battery, making the Muse 81 truly India-ready, especially in areas where poor power supply and frequent outages are regular. The speaker can house a sturdy PP+ABS cabinet and sports an integrated carry and a trolley handle with wheels for easy transportation. Packed with features to the brim, the Muse 81 is a unique and cost-effective option for tour guides, musicians, schools, classrooms, coaching classes, small businesses, and an endless list of mobile PA applications.

Exhibitor: : Audioplus, Hall No: 1 | Booth No: B29

MX24 & MX36

The MX Series offers a unique simple solution to the long-standing problem of routing multiple mixing console outputs to a speaker system/system processor. MX24 & MX36 can handle up to 36 inputs in 2U across analogue, AES and Dante networks are arranged in sets of four (to typically support Left-Right-Front Fill and Sub feeds from an individual console). All AES inputs have SRC. The device has one set of four outputs, available simultaneously across analogue, AES and Dante networks with Word Clock output sync available on AES.

Exhibitor: Premier, Hall No: 1 | Booth No: D29, E29



MX40Pro

The New MX40Pro is a top-level controller with extreme designs and supports new software VMP. A new solution for managing high-end applications such as fine-pitch LED installation, studio broadcasting, touring, corporate events, virtual production and E-Sports.

Brand: Novastar, Hall No: 1 | Booth No: D45 & G29





26 - 28.05.2022 BOMBAY EXHIBITION CENTRE. GOREGAON (E), MUMBAI, INDIÁ



DESIGNING WORKSPACES IN CHANGING TIMES



Certified AV Specialist Course

This year PALM AV-ICN Expo's very own three-day certification course aims to empower attendees with an understanding of technology and trends in the AV world. The speakers Abdul Waheed, Managing Director, EYTE Technologies Pvt. Ltd & Arif Patil, Principal Consultant at EYTE Technologies Pvt. Ltd will be providing knowledgeable information on how one can create talent with specific learning for AV integration and more.

Course Structure:

GOING BACK TO BASICS

a) Basics of Audio. Video and Control b) AV Maths c) Design Considerations

DESIGN PHASE/DESIGNING

a) Requirement Gathering (Need v/s Wants) b) Project Flow

TECHNOLOGY POST COVID

a) Shift from Professional to Consumer b) Lifestyle and trends Post Covid c) Technology and Experience

Training Conducted by:



ABDUL WAHEED Managing Director, EYTE Technologies Pvt. Ltd. (CTS)

ARIF PATIL Principal Consultant, EYTE Technologies Pvt. Ltd. (CTS-I along with CCNA Certification)

Venue: HALL 1, BEC, Certified AV Specialist Training Room.

For more information contact:

SMITA RAI +91 928 936 8200



Organised by:



The NF-6BT comprises one 6" low/mid-woofer with a 1" compression driver equipped with a multitap transformer. It has a sturdy structure with an elegant and discreet design making it applicable for indoor and outdoor installations. The NF-6BT can be mounted either vertically or horizontally. The body is engineered with plastic injection moulding and polypropylene that guarantees complete protection against ultraviolet rays. The grille is perforated aluminium, internally covered in waterproof fabric and open cell expanded polyurethane. The system confirms to IP46 international standard is available in black colour and withstands all elements, making it ideal for outdoor installations such as beach clubs, pools, cruise ships and terraces.

Exhibitor: Aerons, Hall No: 1 | Booth No: D55

NOTE-4

The Note4 combines prograde analog components, superb effects, a built-in USB audio interface, direct USB playback and Bluetooth that offers an economic package in an attractive white body. It has a built-in individual effect switch in the channel, L+R, separate controls for headphones, two balanced combo XLR inputs for microphones/line and a loop playback function, making performance and broadcast very convenient. The Note4 has all the bases covered with individual Gain, High & Low Controls, 48V Phantom and TRS Jack Outs.

Exhibitor: Narain Audio and Lighting, Hall No: 1 | Booth No: B09



Orb 402 SC Mixer



Studiomaster Professional's Orb 402 SC Mixer with dual recording option is a compact four-channel mixer with dual functions for playback and recording on a pen drive or a PC via a USB audio interface. The mixer comes with two USB audio interfaces, one on the front panel and one on the rear. The USB audio interfaces are class-compliant, with no separate drivers required, making them compatible with virtually any DAW or software application. Leveraging a high-resolution 24-bit/48kHz sampling rate, the Orb 402 SC integrates a DSP-based multi-EFX processor with 24 preset and the ability to route the processed signal to monitor via AUX. Designed to be compact, the Orb 402 SC has abundant input, output and routing options. Other features include high-definition preamps, +48V phantom power supply and responsive 60mm faders. With an ergonomically angled design, a classy side cheek and a compact form factor for desktop use, the Orb 402 SC is ideal for musicians, podcasters, content creators, YouTubers, audio conferencing applications and more.

Exhibitor: Audioplus, Hall No: 1 | Booth No: B29

PL SPL 26 - DMX SPLITTER & BOOSTER

The PL SPL26 Splitter is a six-output DMX splitter with DMX signal boosting. This unit takes the incoming DMX signal and splits the signal into six separate output channels allowing for expanding the number of devices controlled from 32 to 6 X 32. The output terminals are optically isolated from the input and share a common ground reference. All six output ports have an independent output driver and ELV transformer to boost the DMX signal.

Exhibitor: Pioneer Lighting, Hall No: 6 | Booth No: D18



The Heavy-Duty Rigger Glove is designed from the ground to provide an exceptional level of all-day comfort while protecting your money-makers from a demanding, hands-on lifestyle. The TPR guard helps protect against minor impact blows to the knuckles, while the world-class aramid fabrics and goatskin leatherwork resist abrasions on the palm.

Exhibitor: Kiran Sales, Hall No: 1 | Booth No: C49



PX SERIES Compact Speaker

The PX series is a series of compact speaker systems comprising three models, PX112, 125W RMS 12" full-range Dual Cone speaker, PX212 is a 250W RMS Dual 12", and PX115 250W RMS 15" speaker, all coupled to high-performance piezo tweeters. The cabinets use heavy-duty handles and a strong steel grille for ease of transportation and have pole mounts. The speakers are housed in a rugged closed box enclosure made of 18mm plywood with a premium paint finish. Ideal for small live music programmers, DJs, and general PA applications to complement the rock series of amplifiers.

Exhibitor: Narain Audio and Lighting, Hall No: 1 | Booth No: B09





The Mobile range of d&b systems fulfils a broad spectrum of application demands, from touring productions and sports events, to live sound, performing arts and speech reinforcement. The loudspeakers and amplifiers are specifically designed to deliver scalability, flexibility and maximum efficiency, with dedicated rigging and transport accessories for easy redeployment from one venue to the next.

All d&b products are supplied with user-friendly software tool to help you setup and optimize with minimum effort and time. All products are covered under a 5 years warranty including all parts.

Know more: ansata.net/dbaudio

d&b audiotechnik ●■



ANSATA No. 20, 2nd Main, Hora

No. 20, 2nd Main, Horamavu Road Bangalore - 560043 Phone: 1800 833 4228 E-mail: livesound@ansata.net



The SharXS HTI lamps unites two technologies, which transform a performance into an extraordinary experience. First, short-arc technology means that the electrodes in these double-ended HTI metal halide lamps are closer together. This makes them considerably higher in luminance than traditional metal halide lamps of the same wattage and results in a better overall system efficiency. Second, the XS (eXtreme Seal) technology has distinct advantages. The heat-sensitive areas within the pinch seals are covered by a protective layer, which means that the need for cooling – and thereby the noise output of the fixture – is significantly reduced. All this allows for simpler, more compact solutions that keep background noise at a minimal level.

Exhibitor: Osram Lighting, Hall No: 6 | Booth No: B03

SXFC 118



The SXCF118 is a compact, high-performance cardioid subwoofer. The flown version of the SXC118 is the ideal partner for flown WPS arrays — combining maximum low-frequency output with pattern control. It features an 18" (460mm) forward-facing driver and a 14" (356mm) rear-facing driver, each driven independently by separate amplifier channels and DSP. Each driver has its chamber with an optimised bass reflex port.

Exhibitor: Vardhaman Megatech, Hall No: 1 | Booth No: C01

Torus T1215

Martin Audio's SPL. TORUS is a constant curvature array designed to fill that gap perfectly, combining optimised coverage, SPL and cost-efficiency. T1215 offers a narrow vertical pattern of 15° with a flexible horizontal pattern that can be manually adjusted between 90°, 60° or 75° (Asymmetrical) via the Dynamic Horn Flare.

Exhibitor: Vardhaman Megatech, Hall No: 1 | Booth No: C01



Ultra Fine P1.5/P1.8/mm Indoor Led Display



The front serviceable Ultra HD LED screen cabinet is lightweight and meets the needs of small spaces or where the cabinet thickness is needed and enhances the vision of the space. It allows for easy maintenance, saves time and labour on-site and offers the audience an excellent visual experience without any gaps and the LED display with ultra-high flatness. High standard industry-leading design, Top handle groove design, easy to carry. The hard magnesium alloy cabinet in the bottom case for better heat dissipation. The up and down, left and right fast-lock design for convenient installation and assembly.

Exhibitor: R J Enterprises (Jona Led), Hall No: 1 | Booth No: D45

URX60 Wireless Microphone System

The URX60 professional digital UHF wireless microphone system is an excellent choice for a cost-efficient, high-performance multichannel system. Over 90 Selectable frequencies, up to 24 channels can be simultaneously used withDigital Circuit Design (DCD) technology for frequency control. The DCD uses high-quality ADC and DAC with a low Latency Decoder for high fidelity Digital Audio transmission using Pro-grade 24Bit 48K sampling rate. DCD provides freedom from RF interference and noise and outstanding signal reliability.

Exhibitor: Narain Audio and Lighting, Hall No: 1 | Booth No: B09



ULTRA-X40 Loudspeaker

The ULTRA-X40 is an innovative concentric-driver configuration couples two eight-inch cone drivers to a rotatable waveguide surrounding a three-inch high-frequency compression driver, to deliver smooth response across its entire range and directional control down to 400 Hz. The ULTRA-X40 breaks new ground in power-to-size performance, thanks to its ultra-efficient 3-channel Class D amplifier that provides peak output of 1,950 watts with a max sustained current draw of just 1.3 A (230 V AC). All this in a speaker that's just 12.5 by 22 by 14 inches and less than 55 pounds—20 pounds lighter than its predecessor, the UPA-1P. Two horn options provides total flexibility in system design. The ULTRA-X40's precisely-tuned, rotatable 110° x 50° Constant-Q horn delivers uniform response throughout its coverage area.

Exhibitor: SunInfonet, Hall No: 1 | Booth No: J09







IRAA 2021 FELICITATION CEREMONY AND OPEN FORUM

The Indian Recording Arts Academy Awards (IRAA) 2021 streamed live on 5th Feb 2022. IRAA announced winners across 50 categories at the ceremony, selected from amongst almost 1400 nominations received, for movies, soundtracks and albums released between 1 January 2020 and 31 December 2020. The IRAA 2021 winners will be felicitated at this ceremony in the presence of Jury members. This session will also be an open forum for discussing the IRAA categories for 2022 and the evolving Independent Music scene in the country.

IRAA WELCOMES EVERYONE TO THE AWARD FELICITATION CEREMONY!

Date: 28 May 2022 | Venue: Grande C, NESCO Time: 16:00 - 17:00 hrs.





26 - 28.05.2022 BOMBAY EXHIBITION CENTRE, GOREGAON (E), MUMBAI, INDIA





Sirius HRI lamps

The reflector Sirius HRI lamps can be used whenever there is a requirement for long life, and high luminous efficiency at a competitive price range. For shows where beam or Hybrid fixtures are required, the efficient Sirius HRI lamps are a light source in terms of quality and price paid.

Exhibitor: Osram Lighting, Hall No: 6 | Booth No: B03



V4000 Amplifier

The Audible Avenue V4000, the new model of high-output, competitively priced professional constant-voltage amplifier. It delivers clean, high-degreed sound reproduction and the reliability you expect. V4000 offers flexibility and value for installed sound, delivering 1,200W at 8Ω and 2,000W at 4Ω ; Its high-power output provides an affordable solution to drive subwoofers at both 8Ω and 4Ω loads. Power levels and features integrate perfectly touring performance and fixed install design requirements. The constant voltage output port also has the function of automatically limiting the output power. The high-precision mutual inductor samples the current to ensure the voltage port is correctly connected/overloaded so the power output can be automatically adjusted so that the power amplifier is always in a safe working mode, and the product reliability is improved.

Exhibitor: Kiran Sales, Hall No: 1 | Booth No: C49

VX600 Controller

The New MX40Pro is a top-level controller with extreme designs and supports new software VMP, which represents a new solution for managing high-end applications such as fine-pitch LED installation, studio broadcasting, touring, corporate events, virtual production and E-Sports.

Brand: Novastar, Hall No: 1 | Booth No: D45 & G29



X 35 4 Channel DJ Mixer



Studiomaster Professional brings you the X 35 - a four-channel DJ mixer with a built-in USB MP3 media player & Bluetooth wireless streaming. The mixer ships with a compact Infrared (IR) remote controller for easy playback and control. The X 35 has three RCA inputs, out of which two inputs sport phono preamps. It has a balanced XLR mic input with gain and 2-band EQ. One of the standout features of the X 35 is the three-band kill EQ that attenuates up to -30 dB, aiding in a seamless mixing experience. The output connectivity has a balanced XLR and separate master, record and booth RCA connectors. The X 35 has a front panel 1/4" headphone output with cue mix with blend options for easy monitoring. The crossfader is super responsive and comes with four modes that are, reverse, normal, flat, and steep. Mixing on the X 35 is effortless due to the ultra-smooth sturdy faders.

Exhibitor: *Audioplus,* Hall No: 1 | Booth No: B29

ZT 22 HEAD-WORN MICROPHONE SYSTEM

The ZT 22 Dual UHF Headworn Rechargeable Wireless Microphone System does not require an external bodypack transmitter and has rechargeable batteries across the board. All the wireless technologies are integrated into the compact microphone transmitter and receiver units, making it fully plug-and-play. The head-worn microphone unit is lightweight, comfortable and stays securely in place even during fast-paced movements. The microphone features a unidirectional pickup pattern to deliver an exceptional speech and vocal clarity. Thanks to a reliable UHF band operation, you can deploy up to eight sets or sixteen microphones at the same location with a wide operating range of up to 30 meters. Designed for mobility, the ZT 22 is ideal for presentations, live performances, singing, speech, classrooms, training centres, houses of worship, fitness centres, retail point of sale counters, tour guides and an endless list of mobile PA applications.

Exhibitor: *Audioplus,* Hall No: 1 | Booth No: B29



(Continued on Page 60)

N-Labs at PALM AV-ICN expo 2022

he Pro audio industry has been seeing unprecedented growth over the last few decades. This has been possible due to various global brands shifting their focus to the Indian market, which in turn has also encouraged the emergence of new brands within India. One such brand is N-LABS AUDIO launched in mid-2019, Manufactured under the umbrella company HV & Company started in 2012, N-LABS AUDIO caters only to the Indian market within budget and without compromising on quality. "Since its inception in 2012, HV & company has strengthened its roots deep in the industry by rapidly expanding its product repertoire to support the market and vendors. We launched N-Labs with the intention to provide high-quality audio products, which are not available and made in India. We believe in designing our own product technology customized to Indian standards," says Hemal Bhatt, Founder & CEO of N-Labs.

In 2019, N-Labs was introduced to the Indian market to deliver high-quality products and gradually gained the

respect and trust of its customers. In 2021 N-Labs, in association with HEPL (HEMONA ELECTROACOUSTICS PVT LTD), opened its fully automatic amplifier manufacturing unit & speaker cabinets manufacturing facility in Gujrat to meet system requirements across the widest range of conventional applications.

"At N-Labs we believe in manufacturing high-quality audio equipment with a strong & unmatched after-sales service & support Program. We are not just an audio company, we believe in designing products with the highest Reliability & lowest maintenance cost for our buyers. We wish to make every rental company spend zero money on the Maintenance of their Gigs & Save their Costs of Operations in events. N-Labs Innovative products are the Future of the Indian audio rental industry. So, buy best, always N-labs for sure," says Hemal

R&D Focuss

With a vision to educate and empower the users with everything related to Pro Audio, Hemal Bhatt aims to ensure

the highest quality and control over their products. N-LABS AU-DIO boasts of an R&D facility with qualified engineers, designers and a manufacturing team located in Mahuva, Guiarat.

"The benefit of making the products in India is to include substantial reductions in cost, to suit the clients' budget without compromising quality and of course quick time to market new

products," says Hemal Bhatt.

The company's advanced technology audio solutions include Amplifiers, Speakers, Cabinets, Microphones & Line array Systems. Experienced designers, manufacturing team, technically qualified personnel and after-sales team, represent the company.

N-Labs has been designing versatile sound reinforcement solutions for use



Hemal Bhatt, Founder & CEO of N-Labs

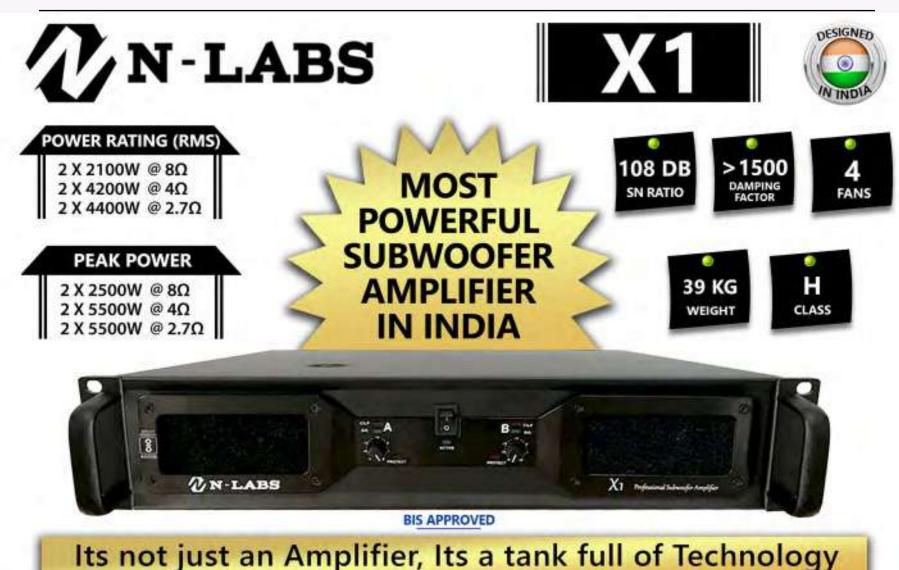
in cinema, live sound, house of worship and touring applications.

Targeting the professional audio, tour sound and concert system segment, the company has been constantly launching new products. Bhatt added, "Our concept is simple: to design, build and service every product for the Indian market and provide products that are reliable and trustworthy. This approach is one

of our key points."

N-Labs is also creating a network of dealers and distributors across India to support to the pro audio industry.

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



4

AI-22 Audio Interface

AHUJA introduces AI-22 USB Audio Interface for new age audiophiles. Engineered to deliver Studio Quality (16Bit / 48kHz) Digital Recording and extremely low-latency streaming. AHUJA Audio Interface AI-22 takes inputs from a variety of sources like microphones, mixers, amplifiers, and instruments through 2 versatile inputs and starts recording audio directly to the computer. Combining leading technical specifications with incredible performance and sound quality, AI-22 is the perfect interface for beginners and professionals. The compact and easy to use interface device enables users to Record / Livestream the content on a PC or Laptop using Windows / Mac Built-in Recording software. AI-22 is also compatible with most commonly used professional DAWs. AI-22 is Made for Streamers, Podcasters, Musicians, Artists, Creatives, Beat-makers, and Producers, a smart creative device to deliver a powerful recording solution no matter the art form. Switchable 48V Phantom power supply allows both dynamic and condenser microphones to be connected seamlessly. Stereo as well mono outputs are available through two mono 6.3mm (¼") line-level outputs. Stereo headphone output with level control is provided for monitoring purposes.

Exhibitor: Ahuja Radios, Hall No: 1 | Booth No: H09

ASL-3000R PA Lectern System

ASL-3000R is a compact, reliable, easy-to-assemble PA Lectern System with a built-in 90W Class D amplifier. The Self-sufficient integrated solution for the sound re-enforcement needs of small auditoriums, hotel banquet halls, conference and seminar rooms, educational institutions, places of worship etc. The 18" detachable gooseneck condenser microphone has a reading light for the podium top. The built-in Dual Channel VHF wireless receiver & two nos. of VHF wireless handheld microphones and a combo socket for connecting a wired microphone through a 6.3mm (1/4") phone plug or a line source through an XLR male plug. With an auxiliary source through a 6.3mm (1/4") phone plug for enhanced connectivity enabled with a digital MP3 recording, playback and Bluetooth facility. Recording or playback can be done by using a USB pen drive or an SD card. Wireless microphones & gooseneck podium microphones have switchable voice priority over all other inputs. MIX OUT through a 6.3mm (1/4") phone socket, allowing the lectern system can be connected to external amplifiers for further amplification if required. ASL-3000R has a USB outlet on the podium top for charging Mobile phones. The lectern system with rugged & stable floor-standing base enabled with mounting clamps for fixing the product to the floor.



Exhibitor: Ahuja Radios, Hall No: 1 | Booth No: H09



Axient Digital Wireless Systems

The Axient Digital offers unprecedented signal stability and audio clarity, plus flexible hardware options, advanced connectivity, and comprehensive control. Axient Digital is tougher in-built with the next-gen radio encryption that offers Quadversity and high-density modes. The digital wireless system delivers impressively low latency, flat frequency response, and multiple digital audio output options, the sound fills every corner of the space—clean and clear. Streamlined management is executed efficiently by giving more command & control.

Exhibitor: Sonotone Audio, Hall No: 1 | Booth No: A05

CS-Series Loudspeakers (CS7p, CS7, CS10, CS10n, CS10p, CS118, CS119)

The CS series of intelligent loudspeakers provides onboard amplification and DSP, plus Milan-ready AVB connectivity, with the same footprint as the acclaimed S-Series. CS-Series loudspeakers are available as standalone products or as an upgrade to existing S-Series products. CS Rack products include Gateway, Bridge, Network Distribution System, and Power Distribution System. And CS software upgrades your ability to design, deploy, control, and monitor in both mobile and installation environments. The new suite is designed with a professional audio workflow in mind: move from design & simulation, through a patch, control, metering, optimization, and system diagnostics without ever leaving the system. This is Adamson's legendary sound, evolved for the networked future of professional audio.

Exhibitor: Sonotone Audio, Hall No: 1 | Booth No: A05



dLive S7000



The S7000 is the largest control Surface in the dLive family, with 216 assignable fader strips. It features 36 faders over six layers, dual 12" capacitive touchscreens and the innovative Harmony UI for the fastest workflow in the industry. The screen is framed by a set of one knob / one function rotary controls, allowing the creativity and immediacy of tactile control over key processing functions, working in harmony with the visual feedback displayed on the screen. The rotary knobs have been prototyped 20+ times to achieve optimal grip and precision control, and feature RGB illumination, with colours mapped to functions for instant visual orientation. The dLive layout is fully customizable, allowing the user to create a mixing interface that matches their own mental map of the show.

Exhibitor: SunInfonet, Hall No: 1 | Booth No: J09



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with DSP and WebApp



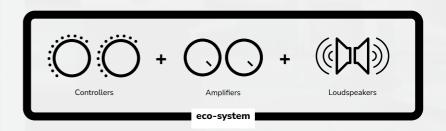
ZonePadZone wall controllers



WebAppIntuitive system set up
and control



SmartAmpAmplifiers with DSP



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CuboidOn-wall loudspeakers



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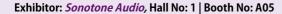


in Harman Professional India



G2 Professional UHF Wireless Microphone

G2 Professional UHF Wireless Microphone adopts intelligent cryptographic hardware to achieve unique sound and RF performance. The frequencies group, colourful display and humanized menu make it suitable for single or multi-sets installation. It is very easy to install and convenient to use and a display on the receiver and transmitter show frequency and battery condition. The G2 features optional UHF band 640-690MHz with Unique digital 16 bit ID pilot technology and no crosstalk disturbance in the same frequency. The UHF Microphone is suitable for stages, ballrooms, conference rooms, speech, and home entertainment providing ideal distances up to 80M in open space.





GST18-1500 Subwoofer Transducer



The GST18-1500 is an 18-inch diameter high performance very-low-frequency subwoofer transducer. The design utilizes a very large format five-inch nominal voice coil diameter with a very high power copper based coil configured in an inside/outside wind geometry. The large radiating area and deep bass performance ensure that GST18-1500 is capable of a very high impact low-frequency response. The transducer also offers a double silicone spider design that improves long term mechanical reliability and mechanical linearity. The large format ferrite based magnet structure produces very high conversion efficiency. The ferrite design includes a double stack permanent magnet geometry that increases maximum physical excursion capability. Inside/outside winding geometry assists in coil cooling and improves both transducer power handling and system reliability. The GST18-1500 also features a very long air gap height that improves transducer linearity.

The GST18-1500 offers a very smooth and controlled amplitude response and has a recommended high-frequency limit of 150Hz. The GST18-1500 features an aluminium die-cast chassis that includes d Cooling" design that minimizes coil and magnet roves system performance.s.

Exhibitor: Sonotone Audio, Hall No: 1 | Booth No: A05

Hurricane Beam 12R

The Hurricane Beam 12R has a Philips MSD Platinum 250W Light SED with a voltage of AC100V-240V, 50/60Hz. The beam supports 16/20 DMX Channels with up to 300W Power and provides a two-degree beam angle. Hurricane Beam 12R features a mechanical shutter 0.5-13 times/seconds with adjustable speed..

Exhibitor: Sonotone Audio, Hall No: 1 | Booth No: A05



HTI Lok it!

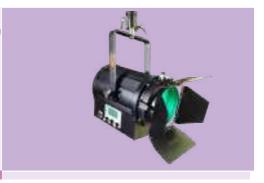
OSRAM Lok-It! comes in a compact design and short arc gap for use in smaller and brighter fixtures with eXtreme Seal (XS) technology. With up to 450°C at the pinch seal and consistent lumen output over the life of the lamp. The Robust design in-built with a ceramic base allows high voltage up to 35 kV. HTI Lok it! allows handling only by the base and insertion into the fixture from the back of the reflector, so there is less risk to the quartz capsule during installation or removal. HTI Lok it!.

Exhibitor: Osram Lighting, Hall No: 1 | Booth No: B03

Led Fresnel Colour Tunable

The Colour Tunable LED Fresnel lighting fixture uses advanced LED featuring four-colour mixing to deliver high precision CCT from 2,700K to 10,000K with high CRI. Other features are RGBW colours with HSI control, green, magenta colour correction, colour correction mechanism compatible for all camera makes, adjustable system settings, USB support and onboard firmware up-gradation, multiple DMX mode, strobe effects and special effects, 50 fixed colour presents, low fan noise and CE certified. This lighting fixture is available in 100W and 200W models.

Exhibitor: Canara Lighting, Hall No: 1 | Booth No: E37



LPP-260A Digital Speaker Management System

The LPP-260A is a High End 2-IN/6-OUT digital speaker management system with highly improved DSP processes and an FIR filtering tool set. LPP-260A is designed for maximum versatility and provides all the processing and control necessary for live and fixed installation. Proving for any crossover configuration, it offers two analog inputs, six analog outputs and one AES/EBU input, managed by two powerful MARANI DSP Engines, for a full 96kHz processing, in addition to 24 Bit AD/DA Converters.

Exhibitor: *Sonotone Audio,* Hall No: 1 | Booth No: A05



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MT2201 Amplifier



MT2201 Amplifier delivers up to 3600+3600W at four Ohms load per channel, compatible with power-hungry Dual 21" 6" VC Subwoofers. The class D amplifiers represent the zenith of amplifier efficiency and use pulse width modulation to rapidly switch the output devices between off and on states at a switching rate of 50MHz. D Class uses less heat sinking and is usually lighter than other amplifiers to ensure RF/EMI rejection with an LF filter. Nx Audio's D Class Amplifiers have performed well in field tests and are used for dynamic range and headroom at extreme power levels.

Exhibitor: Narain Audio and Lighting, Hall No: 1 | Booth No: B09

MX801 Monitors

The MX Series is a system of audio building blocks that allows architects and venue designers to create a seamless full range audio presence, without compromising on aesthetics. The range is based around a 6" or 8", two-way, full range, wall or ceiling mountable loudspeaker and can be augmented with a very compact subwoofer system.

Exhibitor: SunInfonet, Hall No: 1 | Booth No: J09





NBA-30WL Amplifier Set

NBA-30WL is an elegant and compact portable neckband PA amplifier Set with a max output power of 10W. Ideal for teaching, tour guides, yoga classes, playschools and small group presentations. Built-in high capacity rechargeable battery, that lasts for more than 10hrs operations. The UHF wireless transmission technology is suitable for long operation range incorporated with rare earth material speaker, lightweight, and high volume. Wireless playing function to link with cell phone/PC/Pad to play music via Bluetooth and TF card for audio playing in MP3/WAV format. Recording function to record an audio file in WAV format with Automatic FM stations searching, which saves more than 50 channels. Supplied with a headband microphone, a neck strap, and a USB micro charging cable and a 3.5mm Mic input socket for connecting the headband microphone and for connecting a DVD, CD or an MP3 player.

Exhibitor: Ahuja Radios, Hall No: 1 | Booth No: H09

NBB-1616/NBB-1616E

The NBB-1616 is a fully digitized 16 x 16 Break-in/Break-out box which bidirectionally streams multi-channel audio throughout off-the-shelf Ethernet cables and switches. NBB-1616 is a Dante-enabled networked break box or stage box supporting Layer three of IEEE 802.3 Ethernet standard with a daisy-chain networking mode for easy coverage extending. Featuring 24-bit PCM coding with a sample rate up to 192KHz and the option to double channel capacity with an expansion box.

Exhibitor: Sonotone Audio, Hall No: 1 | Booth No: A05





QM3 / QM 4 Bass Reflex Speakers

The QM3 12" and QM4 15" powered 2-way loudspeaker is tough, reliable, speaker system that delivers performance way above its class. The QM3/QM4 has all the features sound audio professionals demand for fast and dependable mobile sound. The heart of the QM3 is the Quest Hybridtec Amplifier System has a lightweight amplification package that combines the best features of both analogue and digital technologies...

Exhibitor: SunInfonet, Hall No: 1 | Booth No: J09

R-4 System Wireless Microphone System

R-4 is designed with JTS's newest generation wireless technology. To cope with the squeezed radio spectrum the system provides more compatible channels within limited bandwidth. The R-4 is a four-channel system in a 19" one U case. Antenna outputs and AC power supply are designed to be cascaded. It provides great convenience for installation. JTS patented REMOSET feature sends all microphone data by pushing one button. Moreover, all four microphones can receive correspondent data at the same time after one push. JTS provides detailed and full adjustments for the best audio and radio performance.

Exhibitor: Sonotone Audio, Hall No: 1 | Booth No: A05



LD SYSTEMS ELEVATES AMAANZA POOLS AMBIENCE

Chhattisgarh's first-ever temperature-controlled pool, Amaanza Pools & Fountains in Raipur re-cently wanted to enhance its customer experience with an excellent sonic system for which they reached out to 8MM, to install a comprehensive audio setup. Understanding these demands 8MM deployed LD Systems DQOR 8 TB weatherized speakers to elevate the pool's ambience.

The Raipur based audio consultation and system integrator- 8MM provides a one-stop audio so-lution to customers and serves them with world-class quality products. **Deepak Gupta** of 8MM installed 8 black finish DQOR 8-inch loudspeakers have been distributed and installed around the pool.

Deepak shares, "The DQOR series



2-way DQOR 8 TB speakers enhance the acoustics at Amaanza Pool

loudspeakers are known for delivering superb sound and the sort of feel-

good atmosphere that puts anyone in a great mood, which made it the

perfect choice for Amaanza pools. The 2-way DQOR 8 TB speakers fit in harmoniously with Amaanza's decor, due to their clever slide-andlock wall mount with concealed integrated connections; and it is protected against any splash from the pool, thanks to its IP55 rating and corrosion-resistant alu-minium front grille! The output power of each speaker can be adjusted with just a power tap, making it very easy for the employees to play background music or even announcements at the sound level they require. The management is delighted with the balanced sound and coverage provided by their new audio system which has encouraged their customers and guests to linger for longer with great sound."

NEHRU SCIENCE CENTRE INSTALLS ALLEN & HEATH AVANTIS

After Covid enforced two-year closure, Nehru Science Centre reopened to welcome all upcoming events at the venue. The management at NSC wanted to bring the in-house audio system that would energise the acoustic and enlisted local Audio Consultancy OdBle to specify a system capable of serving NSC's needs well into the future. Understanding this demand of the management, Odble reached out to SunInfonet to supply the Allen & Heath Avantis mixer.

Set in eight acres of sprawling parkland in Worli, Mumbai, Nehru Science Centre (NSC) is the largest interactive science centre in India with over 750,000 visitors passing through the doors each year. As well as a science park, planetarium, and numerous educational facilities, the NSC houses a 917 capacity auditorium regularly used for conventions, live music, theatre and lectures.

"Nehru Centre Auditorium is a prestigious venue for the presentation of

concerts, plays, conferences and other cultural events" commented an **NSC official**. "We asked OdBle to specify a mixer capable of the highest quality sound whilst retaining ease-of-use and based on their recommendation we purchased the Allen & Heath Avantis."

Avantis is a 64 channel, 42 bus mixer built around the XCVI FPGA processing core, delivering 96kHz operation with ultra-low 0.7ms latency, and is compatible with the full Everything I/O range of audio expander hardware. With a massive 206 square inches of screen space operating at 1080p Full HD resolution, Continuity UI offers a seamless connection between the physical controls and the displays: the faders react on touch to immediately highlight the active channels for instant visual feedback: the channel rotaries let you work gains or pans, then at the touch of a button, dynamically fold the display to show EQ or compressor parameters across the whole bank; and each screen also features a FastGrab tab on the



Avantis mixer are compatible with the full Everything I/O range of audio expander hardware.

right-hand side, giving you split-second access to key freely-assignable parameters like aux sends, EQ, compressor and FX on the currently selected or specific channel

The Avantis was called into musical action shortly after installation, mixing a show by renowned Marathi Singer **Rahul Deshpande** and his band for the annual **Vasantotsav** event celebrated throughout India.

"The in-house technical team enjoyed the on-site training we delivered and were quickly up and running with the console," says **Jagdish Mutke**, Senior Application Engineer at Allen & Heath Distributor Sun Infonet. "The staff at NSC appreciated the improved audio quality and ease of operation with the new mixer. The Avantis' tag line 'It's a Small Step to a Giant Leap' seems very fitting for the upgrade at Nehru Science Centre!"



SOUND EFFECTS CRAFTS SOUND IMPRESSIVE ACOUSTIC AT ELLORA CAVES

The Aurangabad circle of the Archaeological Survey of India (ASI) hosted an elaborate programme to celebrate World Heritage Day; with the organization choose the visually stunning and historically compelling Ellora Caves as the host venue. With the heritage nature of the venue and the lineup of musicians invited to perform with their brand of music, it was vital to have an audio reinforcement that would deliver an optimum audience experience that would befit the theme of the event and the objective that it looked to achieve. Field Production assisting the production responsibilities of Trikaal reached out to Uday Shah, Director of Sound Effects, to execute the acoustic design

The Ellora Caves is a UNESCO World Heritage site that was built during 600 to 1000 CE; comprising Hindu, Buddhist, and Jain temples in addition to over 100 caves which at one point in history acted as lodging and abode to the travelling Buddhist and Jain monks.

Since this year i.e. 2022, coincides with the 'Azaadi Ka Amrit Mahotsav' i.e. the celebration of 75 years of India's independence – the ASI Aurangabad circle decided to spotlight a rather detailed photo exhibition, along with an extensive 'cultural festival' that emphasized the exceptional diversity in Indian classical music and the several transcendent artists that have left an indelible mark on the art form. The aim of doing so, according to the ASI Aurangabad Circle, was to adopt a unique

way to not just educate the youth to carry forward the legacy and do their bit to safeguard the rich culture of our country, but also inform the masses about the hard work and efforts that architects, engineers, geographers, civil engineers, artists and archaeologists put in towards constructing and conserving

maestros like **Ustad Fazal Qureshi** on the tabla, **vocalist Anand Bhate**, **Rakesh Chaurasia** on the flute, **Dilshad Khan** on the sarangi, **Sridhar Parthasarthy** on the mridangam, **Sangeet Haldipur** on the keyboard, **Gino Banks** on drums and **Sheldon D'Silva** on the bass guitar. The musical spectacle was hosted by special that the technical requirements in terms of sound would be well taken care. They did do a fabulous job indeed. The event was flawless – the music experience was impeccable, and everyone was really pleased!"

Uday reveals that his team designed and commissioned the entire technical



Trikaal Festival energized with JBL VTX V25-II line array modules of the stage

various heritage sites.

The Cultural Festival – titled 'Trikaal' (which literally translates to past, present and future) – was organized in collaboration with artistic Director **Birwa Qureshi**, and was accentuated by stellar performances from music virtuosos and

guest artist Sachin Khedekar, was held in front of the famous rock-cut Kailas Temple, leveraging the awe-inspiring façade to act as a truly enchanting backdrop for the musical wizardry that captivated the audience till the very end.

As **Aditya Gupte**, from Field Produc-

tion, shares, "A live concert has three important aspects ··· stage, lights and perhaps the most important – sound. We wanted to have Lakir Mehta as the Monitor Engineer for this event, as we trust him to be an excellent sound engineer. His understanding of the various nuances of his craft is unparalleled, and this is what made our work easier in terms of the kind of approach we needed to take with the sound reinforcement For this festival, reputed Pune based rental services company Sound Effects by **Uday** Shah, came on-board along with Lakir; and we found that the Sound Effects team's level of commitment to the event was as high as we expected it to be. Their inventory is up to date with all the latest equipment; and so, as organizers, we knew

setup with the utmost amount of care and caution, keeping in mind the 'world heritage' stature of the venue, and the fact that the site has its own set of limitations and sensitivity when it came to possibilities of putting together a formidable sound architecture.

"While the famous rock-cut Kailas Temple added to the beauty of the stage and the classical fusion genre of the music – we had to ensure that the loudspeaker system was designed and placed in a manner that would not compromise the visual appeal of the stage yet enhance the aural experience for the audience. This coincidentally, was also the brief provided by the show producer; and so, we had to spend a fair bit of time analyzing the site to account for various architectural and spatial factors that could impact overall sound experience, and go about putting together a system that would reproduce even the most nuanced musical notes that could be expected from the line-up of world class musicians who graced the event stage. We began setting up at the site in the wee hours of the morning, as we knew we had to be extra careful and extra precise with every single move. However, as the day progressed and the temperature soared to almost 43°C, it did make the process

Continued on page 70



SC-48 mixing AVID console was used to fulfil the artist monitor mixing needs



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JBL AND CROWN AMPS UP NH7 WEEKENDER MUSIC FESTIVALS

The **NH7 Weekender** music festivals successfully re-launched itself after a two-year break from the pandemic at Mahalakshmi Lawns in Pune on the 26th and 27th March 2022 with **HARMAN**.

NH7 Weekender festival has focused on the community it has created, giving audiences unique and safe experiences for the past 11 years. The on-ground event featured a fully Indian line-up of music and comedy enforced with safety measures, due to the third wave. NH-7 Weekender entertained over 25000 music fans in two days with an ultimate music festival with HARMAN Professional Solutions.

Sound effects, Harman Profes-

sional Solutions's Touring sound rental partner reinforced sound for three out of five stages at NH-7 Weekender Music Festival. The JBL VTX system with Crown Amplifiers was deployed on Casa Bacardi, Redbull Off the Roof & Comedy Stages.

"This NH7 was super special for everyone involved as it was being held after a gap of Two years due to the pandemic. We and the client knew from day one that we wanted to make this experience extra special for everyone. We were assigned 4 stages – Redbull off the Roof, Casa Bacardi, Comedy Stage & Camp Tinder," said Uday Shah, owner Sound effects.

Casa Bacardi was equipped with 18

JBL VTX V25-II on each side for the FOH



NH-7 comes alive with JBL VTX system and Crown Amplifiers

enforcement, 18 JBL G28 subs for FOH, eight JBL VRX915M Floor monitors, two JBL STX825 side fills, two JBL STX828s side fills, four JBL VRX932LA front fills, JBL VRX918s for Drum fill, eight Crown IT 12000HD VRacks, and six Crown MA5000i amplifiers.

Redbull Off the Roof had 12 JBL VTX V25 at FOH, 12 JBL VTX S28 FOH, six JBL VRX 915M Floor Monitors, JBL VRX 918s Drum fill, four JBL VRX 932LA, six Crown IT12000HD VRacks and four Crown XTi6002 amplifiers for amplifi-

Comedy Stage enforced with eight JBL VRX 932LA FOH, four JBL STX 828s, FOH, four JBL VRX 915M Floor Monitors, four JBL SRX 835 for Out fills, four CROWN MA5000i amplifiers, three Crown XTi6002 amplifiers with one DBX

DRIVERack 360DSP.

Sound Effects was able to able to finish the set up & sound checks two days prior the festival. The sound design was executed safely to ensure there was no spill-over or sound bleed onto the other stages. "Like every festival the most challenging part is keeping the sound volume in check, along with the length and throw of the sound. Thanks to the JBL LAC (line array calculator) all this was achieved easily," comments Uday.

"It has always been a matter of joy and pride for our company to work on NH7. A special thanks to **Manish Chandnani**, Head- Live, Nodwin Gaming for giving us this opportunity yet again," concludes Uday.



SOUND EFFECTS CRAFTS SOUND IMPRESSIVE... Continued for page 68

a little more challenging for the team," explains Uday.

For the event, the Sound Effects team deployed a comprehensive JBL loudspeaker system, with the FOH comprising six units of the JBL VTX V25-II line array modules with 4 units JBL VTX G-28 on either side of the stage, complemented by four units of the versatile JBL VRX932LA line array modules that acted as the center fill reinforcement. Rounding off the audio system were a total of ten units of the JBL VRX915M wedges that were placed strategically on stage to act as the stage-monitoring system. The entire loudspeaker system was powered through multiple units of Crown IT12000HD power amplifiers. Alongside, the Sound Effects team also

provided the Backline system for the event, which comprised world-class gear like a Markbass Little Mark 800 Tube with 104HR, a Pearl Masters 7 Piece Drum Kit, and a keyboard each of the Yamaha Montage 6 and Montage 8; in addition to two sets of the 6000 series wireless microphone system from Sennheiser along with mix of several corded and cordless microphones from Shure and Sennheiser respectively. And to enable unparalleled control over the sound output, the Sound Effects team offered the leading-edge SD10 full-format mixing console from DiGiCo at FOH that was operated by sound engineer Jayakrishnan Nalinkumar (JK), while a unit of the ever-reliable SC-48 mixing AVID console was provided

by Lakir to fulfil the artist monitor mix exigencies.

......

Recounting his personal experience of the event, Lakir shares, "Since it was a large-scale classical fusion concert with some of the most noted music maestros of India, and that too at a venue that's regarded as a world heritage site – it was indeed an overwhelming experience. But thanks to the Sound Effects team, everything went smoothly. Their backline was amazing, and the artists too were all praise about the quality and performance of the equipment. JK -who was at FOH did an amazing job to sort inputs and output patch-list, and so it was extremely easy for me to work my part. Overall, my experience was great and looking forward to doing more

work with the team."

It's safe to note that the several stunning performances at Trikaal played a vital role in the qualitative and quantitative success of the overall endeavor. As Uday sums up, "At the end of it all, it is so heartening to receive a flurry of compliments from the artists, organizers and audience members for a job well-done. I'm extremely proud of the efforts that every single member of Sound Effects has put into bringing this magnificent event together, and I would like to express my sincerest gratitude to the immensely talented Lakir Mehta for his unwavering support throughout the entire project. This is an event that will hold a special place in my memories for years to come!"

May - June 2022





EXPRESSES IT'S SINCERE APPRECIATION AND GRATITUDE TO

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AUDIOCENTER ANNOUNCES AERONS INDIA EXIM PVT LTD AS DISTRIBUTION PARTNER FOR INDIA

Audiocenter, to keep improvising on its positive momentum, the brand recently announced New-Delhi based pro audio stalwart Aerons India Exim Pvt Ltd, as their exclusive national distributor in India. Audiocenter entered the Indian market in the early-mid 2010s and has consistently built its user base across the country in application segments such as live sound, portable sound reinforcement and install sound.

The partnership agreement between Aerons and Audiocenter





Audiocenter product family

was finalized on 15th March 2022 and now heralds Aerons India Exim with exclusive rights to distribute Audiocenter's entire portfolio of products, technologies, and solutions to users all over India through its vast network of dealers, sub-dealers, and channel-partners.

Established in 1962 – Aerons India Exim forayed into the professional audio industry in 2008; with a focus on delivering value for money products, technologies and solutions to industry users, and further reinforcing the customer experience with an unparalleled after sales service. Over the years, Aerons has connected users with their

desired professional entertainment technologies and products.

Since 2011, Aerons has evolved into a comprehensive solutions company –boasting past partnerships with brands such as Behringer and Fane. The

company now represents brands like Audible Avenue, FaitalPRO, Fidek, SR

SunRise products and now Aerons.

"Aerons has a rich legacy within the Indian pro audio industry dynamic; and the kind of

impact that the company has had on all the vertical markets that Audiocenter is present in,

is undeniable. These segments include Live Sound, Portable Sound and Install Sound; and

we recognize the fact that Aerons shares a strong connection with industry experts in these verticals from all over the country. We are proud to be working with such an established distributor with such a rich history in professional audio; and feel that this partnership comes in at the perfect time, where our portfolio has expanded to now include diverse products and technologies that offer precision, versatility and high quality performance to precisely meet the needs of a larger user demographic. It is therefore gratifying for us to know that Aerons will be drawing on its long history and strong relationships in the market to focus their efforts on the qualitative proliferation of Audiocenter products and technologies all over India," expresses Simon Qiu, Sales & Marketing Manager of

Audiocenter, as he confirms that Aerons India Exim have already begun taking charge of key responsibilities like sales strategy, account management and technical support duties for Audiocenter in India.

The inclusion of Audiocenter into Aerons' current distribution portfolio plays perfectly into the company's current focus for the Indian market, which emphasizes a methodical approach towards building a strong nationwide distribution network with the perfect mix of products and technologies that



Ankit Gupta, Director of Aerons India Exim

appeal to a diverse user demographic.

"When we established Aerons India Exim Pvt Ltd as a pro audio technologies distribution company in 2008, we did so with the goal of growing the presence of high-quality brands in the rapidly growing Indian market – the tier two, tier three, and tier four cities respectively – while reinforcing users in advanced metropolitan cities. Over the years we have been able to work consistently towards achieving our goal, and we now aim to capitalize on the progress that we have made thus far. We are absolutely honoured

Continued on page 74

L-ACOUSTICS INTRODUCES NEW GLOBAL SALES DIRECTOR TEAM

L-Acoustics recently announced the creation of a team dedicated to the Asia-Pacific region, the manufacturer now announced that it has created and filled three key Sales Director positions to match its regional operational structure: **BJ Shaver** for the Americas, **David Cooper** for Asia-Pacific (APAC), and Jacob Barfoed for Europe, Middle East, and Africa (EMEA). All three directly report to L-Acoustics Global Director of Business Development Jochen Frohn. BJ and David will also be developing regional sales strategies in close collaboration with Americas CEO Alan Macpherson and APAC CEO Tim Zhou respectively.

Based in, Arkansas, L-Acoustics Sales Director, Americas BJ Shaver has been with the company for over nine years, first serving as a regional sales manager for the southeastern US, and then later as an installation business development director, Install for the Americas. Before joining L-Acoustics, he spent six years with an AVL integrator.

Recently relocating from the United Kingdom to L-Acoustics APAC office in Singapore, David Cooper has also been promoted to a role as L-Acoustics Sales Director, APAC. Like Shaver, Cooper has spent more than nine years with the manufacturer as a sales manager and is well known throughout the industry for his prior 20-year association with Midas.

Jacob Barfoed, L-Acoustics Director of Sales, EMEA, is based in Copenhagen. Barfoed comes to the manufacturer from Sony Professional, where he spent nearly two decades in various leadership capacities.

"To properly ensure that our clients are supported regionally with the highest level of experience, business



(L-R) Laurent Vassié, David Cooper, BJ Shaver, Jacob Barfoed and Jochen Frohn. Photo credit: Owen Kolasinski

acumen, and integrity, we've turned to three incredibly sharp professionals: BJ, David, and Jacob. While they'll lead sales teams with a local focus, they will also be working in tandem with our application teams to ensure highest level of support to customers around the globe."

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CELTO ACOUSTIQUE LLP, APPOINTS SUSHIL S. JOHN AS EXECUTIVE DIRECTOR - SAARC

CELTO Acoustique LLP appoints Sushil S. John as Executive Director, SAARC with the aim to grow and expand Sales, Service & Marketing support to the SAARC Region. In India, CELTO Acoustique LLP was incorporated in 2017 with the aim to grow and offer Sales, Service & Marketing support to the SAARC Region.

"CELTO is strongly committed to invest and grow in the SAARC region and we are extremely pleased that Sushil will be bringing his leadership, experience and direction to our team in the SAARC region" said *Moshe*' **Aston**, Country Head, CELTO Acoustique LLP.

"Sushil brings a record of exceptional leadership, growing companies and deep experience in the SAARC region" Moshe' added. "We look forward to working with Sushil as CELTO executes the near-term growth strategy to become a leading brand in the SAARC's pro audio markets."

Most recently, for the past three years, Sushil was the Executive Director – APAC for OHM UK. He previously



Sushil S. John as Executive Director, SAARC

served as SAARC Business Director for QSC in India for seven years. Sushil has also worked very closely with Harman, OHM, Electro-Voice, and Martin Audio, in the past.

"His industry knowledge and priority to customer experience, relationship management will be well complimented by CELTO's SAARC expansion plans. He has indeed contributed significantly to the Pro Audio Industry within the region, building a strong reputation for himself," concludes *Moshe*.

NOVASTAR INVESTS IN INDIA'S GROWING AV INDUSTRY

NovaStar a control system manufacturer and solution provider in the LED control system industry. With the goal of achieving customer-centric service and a spirit of continuous innovation, NovaStar has provided high-end LED solutions such as high resolution and correction technology to customers all around the world. Since entering the Indian market in 2015, NovaStar has gradually built and improved a mature channel system and localized services. For example, customized some cost-effective products such as VX4S, VX5S, **4K-Prime** and **TCC** series for the Indian market. These products saved a lot of cost for the local display rental and engineering industry while ensuring high quality, which also created more

product value. NovaStar has helped the local LED industry develop rapidly by enriching and creating applications for the LED display industry, providing easy-to-use software/hardware and free training sessions.

In 2021, NovaStar organized five online training and a special online Q&A session in India. Almost all the customers in the LED industry participated in these training, and the contents are mostly related to technologies and solutions, such as HD, calibration, XR, smart city solutions, etc. From the feedback, many local businesses have enriched the knowledge reserve and skills of their employees through the training. NovaStar also joins the Super big- Massive outdoor display of 2500

SQM LED powered with 12 pcs of NovaStar 4K-PRIME - 4K all-in-one controller in Trichy, India.

In 2022, NovaStar is going to attend both Palm Expo and Infocomm India. And continue to bring new technologies and products, such as New All in One, H series control and visualization platform, XR, etc. with more training sessions (both offline & online) to improve local services in India.



2500 SQM LED powered with NovaStar 4K-PRIME - 4K all-in-one controller installed in Trichy, India

AUDIOCENTER ANNOUNCES AERONS INDIA EXIM PVT LTD... Continued from page 72

to be chosen as Audiocenter's exclusive distribution partners for India, and we are confident of augmenting their success and market position, with a focus on steady growth and enhanced customer experiences. We really do believe that Audiocenter is a perfect match for us. Their vision to innovate and produce world-class and industry-leading equipment matches our values of providing the best in professional audio technology to our customers. And we are truly excited by what the future holds for the partnership between Audiocenter and

India" affirms **Ankit Gupta**, Director of Aerons India Exim

Ankit affirms that the market shall have its first glimpse of the Audiocenter

– Aerons India partnership in May 2022 at the **PALM Expo**, which is revered as India's only premier exposition for world-class professional entertainment technologies. Aerons India will be present on the exhibit floor with a plush booth that shall emphasize products from all the brands that Aerons India Exim Pvt Ltd represents in the country.

"At the PALM Expo this year, we plan to emphasize the Aerons India – Audiocenter partnership in a big way. We plan to spotlight products from ranges like the L series, SA 3 series, MA series active speakers, K-LA Series Line Arrays and Pro series amplifiers – with the view to appeal to a wider audience profile", informs Ankit, also revealing that Aerons India will also be adding some of Audio-

center's active and Bluetooth enabled commercial install range of products to the distribution portfolio in the future i.e., as soon as the BIS certification procedures for the respective products are completed.

Describing the long-term partnership between Audiocenter and Aerons India, Ankit confirms that Aerons India will have a dedicated sales and service strategy for Audiocenter. Aerons India will extend special care, support, and attention to all existing Audiocenter users and potential customers in India while strengthening efforts that promote transparent and quick logistics with efficient after-sales service and support.

"Even though Aerons India is headquartered in New Delhi, we enjoy an extensive network of partners and teams all across the country that are wellequipped and adept enough to ensure that Audiocenter customers receive quick and efficient support, irrespective of which part of the country they're in. Aerons India and Audiocenter will work closely together to ensure we offer top class support and only the highest level of customer experience to all Audiocenter users in India" states Ankit emphatically, while also informing that Aerons India will plan to commission special sales campaigns on a regular basis in addition to conducting training workshops and seminars to keep users updated on the latest developments in Audiocenter's pro audio products and technologies.

May - June 2021

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BHAPPI SOUND INVESTS IN ALLEN & HEATH AVANTIS

Over the last 7 years, Amritsar based rental firm Bhappi Sound has forged a reputation for working with many Punjabi artists including Master Saleem, Yasir Hussain, Gulrez Akhtar, Dilprit **Dhillon** and many more. With an increasing number of clients and events on their books, Bhappi Sound wanted to expand their inventory. Rajan Kumar, Sound Engineer and owner of Bhappi Sound, visited Mohali based AV supplier **SOUNDXPERTS** with a shopping list of the desired features. After a demo by the SOUNDXPERTS team, Rajan decided to invest in an Avantis and GX4816 Expander.

The 64 channel, 42 bus Avantis is built on Allen & Heath's XCVI FPGA core, providing a 96kHz audio path with variable bit depth and studio-quality internal processing, all with a class-leading latency figure of 0.7ms. A pair of 15.6" Full Hd touchscreens deliver over 206 square inches of screen space, running at a crisp 1080p, to offer a seamless con-



Bhappi Sound Team

nection between the physical controls and the displays. The GX4816 is a 96kHz audio expander that provides 48 mic preamps, 16 line outputs in a 5U chassis. A pair of DX sockets enable additional expansion via the DX range of expanders from Allen & Heath's Everything I/O ecosystem of remote expanders.

"We are seeing more and more mid-size rental companies investing in Allen & Heath consoles like Avantis and dLive to take their business to the next level" says **Amninder Waraich**, Owner of SOUNDXPERTS. "These mixers tick all the boxes when it comes to ease-of-use, reliability, and return on investment."

Post-sales support was provided by SOUNDXPERTS in conjunction with Allen & Heath's Indian distributor **Sun Infonet**, including a training visit from **Kallol Nath**, Senior Applications Engineer at Sun Infonet.

"We're seeing Avantis gaining traction in the Indian market due to the winning combination of features and workflow" Kallol says. "And, with the onboard DEEP Processing and dPack option, the team at Bhappi Sound have all the processing they need without any requirement for external hardware."

"There are several features that we fell in love with, even after just one show" concludes Kumar. "The sound quality and FX options place it above the competition, and the mixer is incredibly easy to use. We are very happy with our choice."

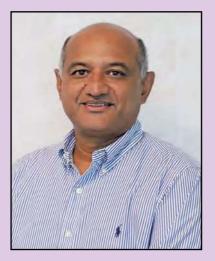
AMAR G SUBASH TO LEAD INDIA BUSINESS FOR HARMAN PROFESSIONAL SOLUTIONS

HARMAN Professional Solutions has annouced the appointment of Amar G Subash to lead the India

business for HARMAN Professional Solutions. He continues his role as the Vice President and General Manager, Asia Pacific. Amar reports to Jaime Albors, Senior Vice President, Global Sales, HARMAN Professional Solutions.

In his expanded role, Amar will lead the India team in serving the region's customers with comprehensive integrated systems, including solutions for corporate, education, government, hospitality, large venues, tour sound and lighting, cinema, broadcast, retail and ecommerce.

Amar has been leveraging the strength of HARMAN's iconic brands including JBL Professional, AKG, AMX, Martin lighting, Crown, Soundcraft, BSS and dbx, to drive growth throughout the APAC region. By leading teams across HARMAN Professional offices in Singapore,



Amar Subash, Vice President and General Manager, HARMAN Professional Solutions APAC.

Japan, Korea, Australia, and now India, Amar will bring the organization closer to channel partners and end customers, and chart a course for further expansion in Asia Pacific territories.

"Amar's exemplary record and global experience has been lauded across HARMAN and also externally amongst our channel partners and end customers. With the example that he has set by leading the APAC region and taking our industry-leading brand to places, we are confident that he will strengthen our India business further. We are hopeful to see some upward momentum in growth and achieving more success in the region," said Jaime.

"I am delighted to take on the additional responsibility of leading the charter for HARMAN Professional Solutions in India. Our legacy in creating iconic brands, integrated solutions across audio, lighting, video and control applications, and association with esteemed partners makes us stand out in the industry. I look forward to elevating experiences of our stakeholders while taking the game a notch higher," said

Amar is based in Singapore at the HARMAN Professional Solutions Asia Pacific headquarters. He is a seasoned business and finance leader with more than 20 years of industry experience and expertise in controllership, sales,

strategy, mergers & acquisitions in consumer goods, industrial, retail, manufacturing, telecommunications and services. Amar joined HARMAN in 2017 as Finance Director for Professional Solutions APAC. In 2019, he became the Director for Channel Management and Operations and in 2020, his responsibilities expanded to lead the Audio Solutions portfolio for Asia-Pacific. In May 2021, he was promoted to VP & GM for Professional Solutions, APAC. Amar started his finance career at Lucent Technologies and later held leadership positions across domains in Tyco Fire and Security India (now Johnson Controls), Ariston Thermo,

Amar holds a Bachelor of Commerce degree from Nagpur University, India and is a member of the Institute of Cost and Management Accountants of India. Amar also participated in an executive management program at Berkeley-Haas, University of California.

av-icnx.com/magazine/Industry-News.aspx

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SW CASES

FLIGHT CASES:

AMP CASE

RACK CASE

LIVE MIXER CASE

CONTROLLER CASE

SURGICAL CASE

INSTRUMENTAL CASE

MIC CASE

LED PAR CASE

MOVING HEAD SHARPY CASE

DRUM KIT CASE

V RACK CASE

DJ PLAYER & MIXER CASE

LCD TV CASE

MONITOR CASE

KEYBOARD CASE

SPEAKER CASE

GENSET JOINT BOX CASE

DRAWER CASE

TOOLBOX & ACCESSORY CASE

CUSTOMIZED CASE









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THREE PHASE BOARD

SINGLE PHASE BOARD **WITH VOLTAGE PROTECTION UNIT**

THREE PHASE BOARD WITH VOLTAGE PROTECTION UNIT

NEUTRAL CUT PROTECTION UNIT

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Sound Waves Cases is a manufacturing company managed by a team having a good experience over years in the Flight Case & Distribution Board industry. Team at Sound Waves Enterprises can engineer & manufacture tough, various size, durable flight cases to protect anything in transit. We offer are typified by a choice or foam line or partitioned interiors recessed spring-loaded handle and case catches, numerous case style ranging from hinged lids to removable single or double lids, front, top or rear loading and a stout aluminium skeletal structure that will both support and protect your valuable components inside.

We manufacture flight cases, racks, distribution boards and supply case hardware over the years with integrity, professionalism excellent price philosophy to win the trust of customers, products are sold all over the country. Company is committed best value product deliverv.

Our experience, design skills, use of quality material and service sets us apart. Products manufactured by the group meet the highest quality standards. Located at Katraj in Pune, the company has excess to ultra modern tool room facilities as well as CNC machinery.



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ASEES KAUR AND NITIN CHANDILA NAMED BRAND AMBASSADOR OF KRYSTALS CABLES & KWIK TRUSS

Krystal recently announced their brand ambassador, Ms. Asees Kaur for their Wires & Cable and Mr. Nitin Chandila- Mr. India 2022 for KWIK Truss Range of Aluminium Trusses.

Sandeep Mohan, Managing Director, Krystals Cables & Kwik Truss says, "The high strength and the agility of Nitin Chandila match with the high strength, satin silver finish and ease

vey a message that the best bodybuilder of India 2022, represents the best aluminium truss company of India" Asees Kaur is a recognized artist in the Bollywood music industry with the

of use of our Trusses. By joining hands

with Nitin, the company wants to con-

Asees Kaur is a recognized artist in the Bollywood music industry with the most streamed songs and featured on New York Times Square twice in 2021. She is eminently known for hits such as

> 'Raataan Lambiyaan' (Shershah), 'Ve Maahi' (Kesari), 'Ankh Lad Jave' (Love Yatri), 'Chogada, 'Bolna' (Kapoor & Sons) etc. Asees has received the Filmfare Award 2021 for the Best Female Playback Singer and Mirchi Music Awards 2022 for Best Song (Raataan Lambiyan) and Best Album of the Year 2022.

> > "The me-



Nitin Chandila, Mr. India 2022 Brand Ambassador for KWIK Truss Range of Aluminium Trusses

lodious voice of Asees Kaur and the high-quality transmit ability of our cables ensure a mesmerizing experience for the audience. By announcing Asees Kaur its brand ambassador, Krystals wants to ensure its customers that their products are as melodious, crisp, and high end as Asees Kaur's voice," said Sandeep.

Krystals also announces the Vision

of the company for the years to come. Krystals is looking forward to expanding its wings into the International Market, with their wide product portfolio of Microphone cables, Speaker cables, Snake cables, Lighting cables and Mains cables. Krystals have been serving the industry by providing cables to the Indian standards and international standards and specifications.

Krystals has been catering to all the segments of the industry including Concerts, Cinema Halls, Auditoriums, Hotels, Schools, Hospitals, Places of Worship etc.

For the year 2022, Krystals will be introducing its fully indigenous XLR Connectors by mid-June and will further add other connectors like Mono Jack, Stereo Jack, and Powercon periodically.

Krystals is also into the manufacturing of **Aluminium Trusses**. The Satin Silver finish of the KWIK TRUSS-ES Pro Series gives an aesthetic look to the trusses and minimizes the mess of oxidation in the mill finish provided by various competitors including the Chinese ones.



Sandeep Mohan, MD, Krystals Cables & Kwik Truss with Brand Ambassador Asees Kaur, Bollywood Singer





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May - June 2022



ALL INDIA ELECTRONICS ASSOCIATION (W.Z.)

(Formerly... All India Radio & Electronics Association (WZ)) CIN: U74999MH1941GAP003320

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- AIEA promotes and protects the interests of the Electronics Trade and Industry.
- AIEA promotes co-operation among companies connected with the electronic trade and industry.
- AIEA arranges and provides facilities for conferences, exhibitions, demonstrations, lectures, excursions and other functions.

VISION

- The vision of the Association since inception has been focused for the growth and welfare of the Trade and Industry.
- The association aims to help members to expand their business horizons beyond boundaries.
- In a developing country, the policy of the government is shaped by the representation and suggestions made by the Trade and Industry bodies. We aim to continue dedicated service to members in years to come.

MISSION

- AIEA promotes co-operation among its members, connected with various sections of the electronic trade and industry, and represents the views of the members on any matters affecting the electronic trade and industry to the Government of India or the Local Government, Chamber of Commerce and other public/private authorities.
- AIEA arranges and provides facilities for conference, exhibitions, lectures and other functions relating to the Trade and Industry. AIEA's experienced members guide fellow members in aspects of technical issues various trade laws and legal matters.
- To foster better fellowship both socially & business wise.
- Expand membership to 25000 members by 2025 & expand activities in tier II and tier III cities.

activities at a glance



ROE VISUAL PRESENTS LIGHTWEIGHT GRAPHITE LED PANEL

ROE Visual announces the release of Graphite LED panel, this LED panel is targeting the indoor event market. The launch offers a durable yet lightweight LED solution that provides quick installation through its intuitive smart-lock system. Graphite is ideal for building large LED walls and ceilings fast and efficiently for any indoor event space.

The launch is designed to offer a lightweight LED solution for builds where reducing weight can be a decisive factor. Weighing in at just under 17 kg/m2, Graphite is durable yet lightweight, meaning there aren't any compromises made to either the panel design or the visual performance. So, you can expect brilliant visual performances and high-grade LED quality every time.

Fast and effortless installation is achieved through Graphite's clever

panel design. The weightless panels are combined with integrated magnet-assisted assembly and a smart-lock system. The smart-lock system saves up to 40% of the assembly time compared to standard LED panels.

Graphite allows for various installation options and configurations for any indoor event. You have the choice of building an LED wall, ceiling, or curved LED displays. Furthermore, Graphite offers easy solutions for building your LED display at raked angles or double-sided with the inclusion of full or half panels.

The Graphite panel assures an eye-catching visual performance through its dazzling brightness, reaching 1500 nits and fitted with fine pitch, black-body LEDs. The 16-bit grayscales translate into an accurate and vivid color representation, while the panel stands out with a stable and reliable performance. Graphite is available in a

2.6 as well as a 3.1-pixel pitch.

Graphite will secure its place in the indoor rental market based on its unique blend of features. This innovative LED display is a solution for users looking for a reliable, efficient, and fine pixel pitch LED display.

"Now that the global rental market for LED display is fast-paced recovering, Graphite fills the gap for the growing demand for an efficient indoor LED display. Graphite possesses all features required in the rental market and more. The panel design focuses on fast and efficient installation while providing an excellent visual performance," states **Grace Kuo**,

Sales Director at ROE Visual, "We believe that Graphite will be soon favored by



Graphite LED provides quick installation through its intuitive smart-lock system

rental houses globally for its unparalleled features in the space."

SHURE UNVEILS SBC210LM PORTABLE BATTERY CHARGING HOUSING

Shure has recently announced the launch of **SBC210LM**, a compact, portable, standalone charging housing compatible with Shure's SBM910, SBM920, SBM910M and SBC-AX battery charging modules.

Whether off doing location sound for a blockbuster film or in the field capturing audio for a sports broadcast, professionals across the industry require reliable, portable power for their gear.

The SBC210LM is a compact solution for any cart or bag used for location sound and can go anywhere mobile

broadcasting and wireless meet. It is also the ideal accessory for nearly all Axient Digital users who find themselves working on-the-go, including, but not limited to, those leveraging the portable capabilities of ADX5D.

Using the included mounting screws, audio professionals can simply choose the Shure charging module that matches their rechargeable batteries and install it directly into the SBC210LM. It is capable of charging batteries to 50% capacity in one and half hours and reaches full capacity in three and half hours.



ANALOG WAY UNVEILS 4K60 PRESENTATION SWITCHERS AND VIDEOWALL PROCESSORS

Analog Way introduces its new powerful multi-screen and multi-layer 4K60 presentation switchers and videowall processors- Alta 4Kline. The two products, Zenith 100 and Zenith 200 are designed for medium to large-scale live events and permanent LED video wall installations requiring the highest reliability and performance.

The Alta 4K presentation switchers are based on a robust and stable FPGA-based hardware platform and meet the needs of the most chal-

lenging applications in live corporate meetings, hybrid events, worship productions, or large-scale 24/7 LED video wall installations.

The Alta 4K switchers offer up to sixteen inputs with versatile 4K connectivity with a dedicated multi-viewer output to easily control all connected sources as well as Program & Preview screens. The video outputs of the Alta 4K series can be configured as single screens, edge-blended widescreens or scaled auxiliary outputs, and each screen can be composed of a live background with

native resolution and up to eight live layers.

The Alta 4K series features an HTML5-based user interface for easy setup and ensures flawless control of multi-screen presentations. The Alta 4K products can be operated by a comprehensive range of control solutions from compact presets shot boxes to the powerful event controller RC400T.



Alta 4K series features HTML5-based user interface for easy setup

May - June 2022

GROUND CONTROL REINFORCES LIGHTING AT BREEZER VIVID SHUFFLE

Breezer Vivid Shuffle is one of the biggest and first hip-hop leagues which has built a vast community and a platform to showcase talent, build skills and share the love for all things Hip Hop. The event sees the active participation of over 6,000 people and about 150 finalists all over India. BVS stands out as a unique event to find the country's best breakers, rappers, Graffiti artists and showcase crews. The show is judged and mentored by leading hip-hop artists such as Raja Kumari, Divine, Dino James, Poppin Pete and many more Indian as well as international names. BVS is hosted and supported by some of the biggest superstars such as Varun Dhawan, Kriti Sanon, Vijay Deverakonda, Raftaar and many more. The finals were shot at Famous Studio from 6 to 10 pm In Nov 2021.

Nodwin Gaming wanted to represent Breezer Vivid Shuffle's tagline 'Live life in colour' on the ground event. Manish Chandnani, Head of Live, Nodwin Gaming, visualised a colourful palette with minimal Led usage and to make this vision a reality, he reached out to Ground Control, to execute the lighting design with a massive play of colours that would differentiate each segment such as rap battles, dance, breaking, popping etc. The lighting designer, Naveen Deshpande who's also the Founder & Director of Ground Control suggested having Pixel tubes on a unique slant trussing design instead of using Pixel tubes just as



Pixel tubes on unique slant trussing design were used for Breezer Vivid Shuffle

lighting fixtures for effects.

"We focused on using a lot of video content on these pixel tubes. Using MA Lighting's Bitmap technology, we were able to stick to the tagline 'Live life in colour' by using various custom-made pixel mapped content making it a very unique design. We also successfully managed to achieve a lot of text content as well on these pixel tubes, something that hasn't been done before in the country making the stage look spectacular," said, Naveen.

Ground Control utilised Vector works to pre-visualise the whole rig using a GrandMA3 compact console at their studio. The team spent one month building the show in the studio, which helped them to keep the programming

time minimal on-site and focused on getting the set upright. Pixel Tubes, Single eye blinders, SGM Strobes and GrandMA3 full-size gears were used at BVS, which was supplied by Star Dimensions a Mumbai-based rental company.

The most challenging aspect was getting the rig ready, Ground Control had one day to lay out all the pixel tubes with the other fixtures. "We spent most of our time building the show in our studio hence managed to keep the programming time minimal on-site and focus all our time and energies on getting them set upright," said, Naveen.

The Ground Control team faced technical issues during the pre-check and realised a few of the single eye blinders were not working due to moisture and

had to replace them immediately.

"We had to take the whole slant truss rig down to replace the blinders. Thankfully the back-ups were available on-site and with SD's efficient team we were able to replace those very quickly," said Naveen.

"The team at Ground Control went out of their way to ensure the show looked lit. The lighting looked incredible with the limited time we had available to plan and execute the show. Naveen, Satvinder and his team of engineers have changed the way we look at lighting for live shows. This one had a great play on colours and various elements of design, which connected brilliantly with the various phases we had in the show with different styles of hip hop/dance during the competition. They get deeply involved in the look and feel of the show to ensure we get the best possible outcome," said, Manish.

"The experience was fabulous. We always wanted to keep a new and a fresh approach in our designs and this event was special as we were thinking of something completely out of the box and not driving it by a traditional box or goal post design. It clicked well with the client, and we are grateful for companies like Nodwin who understand this new approach to lighting design, and we are thankful to people like Manish Chandnani, Pratik Shah, Sukriti Chopra, Dharam Saraviya, Raashi Sanghavi and the rest of the Nodwin Team for giving us a free hand in this project," concludes Naveen.



Ground Control utilized Single eye blinders and SGM Strobes for Breezer Vivid Shuffle

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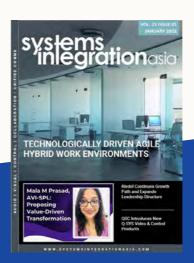
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Brands: APAGAR



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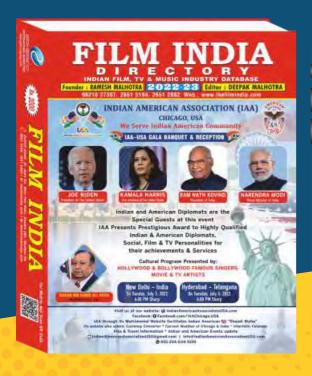
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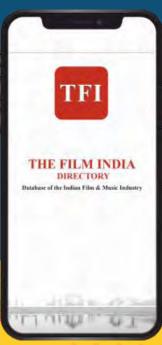
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Brands: First Light



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Brands: P.Audio, DynaTech, Mackie, JTS, Marani, UNiKA, Adamson, Volite



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E: arshad@soundland.in; info@soundland.in | W: www.soundland.in

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Email: staraudiosystem@gmail.com

Brands: Star Professional



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Brands: WinJoy

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