

BUILDING SMARTER, MORE FLEXIBLE CONFERENCING SYSTEMS WITH ERTHPOT'S OPEN-ARCHITECTURE DSP

*An Excerpt from the Session "Reimagining AV Control Through Open Architecture DSP" by **Vikram Yadav**, Founder & Director, Erthpot*

*This feature captures the key points shared by **Vikram Yadav**, Founder and Director, Erthpot, at AV-ICN Conference and Seminar, on the company's journey, its conferencing portfolio, and its focus on open-architecture DSP solutions for increasingly complex AV integrations.*

The session provided an overview of Erthpot's broader conferencing ecosystem, including its NCS conferencing microphone range, PTZ cameras, ceiling and column speakers, Arch wireless microphones, antenna distribution systems, Vector wired microphones and Flexifeather headset microphones. The NCS conferencing system includes chairman and delegate microphones, with the system's controller capacity recently expanded in response to market requirements.

Emphasising on the key technologies provided by Erthpot, a brand established in India 2022 with a vision to provide DSP processor and conferencing microphones as a global brand, **Vikram Yadav** remarked, "We are continuously evolving our products and doing research after taking input from the market. The NCS conference system, for instance, had a capacity of up to 110 microphones. Now we can connect up to 150 microphones in the same device."



The brand has also developed discreet audio solutions for conferencing and background music applications. Its ceiling speakers offer both Dante and analogue connectivity, while its column speakers are designed to support conferencing requirements in a compact form factor.

For wireless applications, Erthpot's Arch range includes single- and dual-channel microphone systems with handheld, bodypack, lavalier and headset configurations. Its antenna distribution systems are intended for complex integrations where reliable RF connectivity is required.

WHY OPEN-ARCHITECTURE DSP MATTERS

A major focus of the session was the company's recently launched **Kyro series** of open-architecture DSP solutions. The discussion centred on the product family, its software and installation process, reliability, device capabilities and applications.

Explaining the need for such solutions, Vikram pointed to the increasing complexity of AV integration and the need for Kyro Series DSP in India. "Now the integration business is so complex. It is very plug-and-play. It works great for all kinds of audio

installations. The Kyro family currently comprises the **Kyro Connect IO**, **Kyro Connect 128D** and **Kyro 44D**, along with a paging station. The range is positioned to address different requirements, from modular and complex integrations to more compact installations."

MODULARITY, REDUNDANCY AND PROCESSING CAPACITY

One of the key features highlighted during the session was the modular architecture of the **Kyro Connect IO**. Vikram mentioned, "Kyro Connect IO is a modular conferencing DSP with a capacity of eight slots. Each slot has a four-channel IO card, and it has a dual backup. So, it is AC and DC."

He further explained that the dual-power arrangement is intended to provide continuity in installations where power reliability is critical. "If you are running our device on electricity, at the same time you can connect it with your DC so that if you fail, it switches over."

The DSP platform also supports Dante connectivity, low latency and media storage, while its modular cards can accommodate different project requirements, including microphone inputs, line inputs, hardware AEC, IO and USB connectivity.

COMPACT SOLUTIONS FOR FLEXIBLE DEPLOYMENTS

Alongside the modular DSP, **Kyro 44D** presents a smaller solution designed to complement the wider Kyro family. Vikram states, "It is a four-channel in, four-channel out with 4x4 Dante connectivity. It runs over PoE, so you don't actually need an external power supply. You can install it anywhere."

The session also emphasised on the **Kyro Connect 128D**, which offers 128-in/128-out Dante connectivity in a compact form factor, alongside low latency, media storage

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SIMPLIFYING DESIGN, SIMULATION AND DEPLOYMENT

Beyond hardware capabilities, the discussion focused on making DSP configuration and deployment easier for integrators. The workflow is designed to take users from device discovery through system design and simulation to deployment. Vikram stated, "You need to connect our device through LAN and just go to discover, then design it and then connect, simulate and then just deploy. It's very, very fast in use."

He further added, "Customers with specific preferences for their control interface can request customised UI designs. If somebody wants their own preference or their own design, then they can always ask us to design the UI for them. We can design whatever they need."

FROM BOARDROOMS TO LARGE MULTI-ROOM ECOSYSTEMS

The Kyro platform is intended for a range of applications, including conference and boardrooms, distance education and training, UC rooms, multi-room routing, paging, playback and certain third-party integrations.

One of the broader applications discussed during the session was multi-room routing, particularly for institutions such as

universities and colleges, where multiple classrooms, conference rooms and auditoriums may need to operate as part of a connected audio ecosystem. Vikram said, "Let's take an example of a university or college where you have a small conference room and classrooms, and then there are auditoriums. They want background music somewhere, and they want to give all the control to the IT manager. So, the manager sitting in the IT room can handle all these devices. He need not go to each room to configure the systems or audio equipment."

This centralised approach, Vikram explained, can bring multiple spaces under one platform and give IT teams greater control over the AV environment. "If somebody is using our product, basically the Kyro, we can take an entire university in one platform and give all the control to IT. IT managers want all the control of AV because they hate to go to individual classes and auditoriums when they need to. They want all their control in their system."

A FOCUS ON EVOLVING WITH INTEGRATION REQUIREMENTS

The session ultimately reflected Erthpot's approach towards developing conferencing and DSP solutions around evolving integration requirements. From expanding microphone capacity based on market feedback to offering modular DSP configurations, redundant power options, Dante connectivity and centralised control, the company is positioning its portfolio for increasingly interconnected AV environments.

Vikram concluded, "Erthpot's focus remains on building solutions that can adapt to different applications while giving integrators and end users greater flexibility in deployment and control. The company also invited attendees to explore its solutions through demos and its partner network across India."

EPSON'S HARISH A K ON SHAPING THE FUTURE PROJECTION.... *Continued from page 25*

mance. We've maintained our leadership position with one of the world's smallest 30,000-lumen projector, and at this year's **AV-ICN Expo**, we showcased one of the world's smallest 20,000-lumen projector.

Our product evolution demonstrates

a clear trend: projectors are becoming progressively smaller and brighter while simultaneously becoming easier to handle and install. We've incorporated sophisticated features such as built-in cameras for automated colour calibration, advanced image processing technology, compre-

hensive colour matching capabilities, and extensive technical support features that professional installers and systems integrators depend on. These technological advancements represent what we believe will be the defining characteristics of the next market phase.