

# ALL WAVE AV SYSTEMS TRANSFORMS KPIT TECHNOLOGIES, PUNE, INDIA

## *Revamping Auditoriums with Advanced Audiovisual Solutions*

*All Wave AV Systems, one of the leading systems integrators specializing in flexible workplace solutions, recently completed a cutting-edge AV installation at KPIT Technologies, an Indian multinational corporation which provides engineering research and development services to automotive companies. This transformative project improved KPIT's ability to connect, collaborate, and communicate efficiently. The dedicated team at All Wave AV shared a detailed case study with AV-ICN Expo Magazine, highlighting how they upgraded the venue with cutting-edge AV technology.*

The client envisioned an advanced auditorium equipped with state-of-the-art audiovisual technology to facilitate immersive learning experiences, dynamic presentations and seamless collaboration.

As **Rajesh Vaidya**, FLM Director, KPIT put it, "The communication within the project team was excellent and the coordination among support teams was also good. The project team did a great job at coordination, ensuring that the project timelines were well-maintained."

### CHALLENGES FACED

#### 1. Outdated audiovisual equipment



*KPIT's Auditorium integrated with leading brands' comprehensive audiovisual solutions*

### **hindering effective communication:**

Prior to the intervention, the client's auditorium was equipped with outdated audiovisual systems that struggled to deliver clear and immersive communication experiences. This limitation hindered the effectiveness of presentations and lectures, impacting audience engagement and understanding.

### **2. Lack of coordination among different audiovisual components resulting in inefficiencies:**

The disparate nature of the existing audiovisual setup led to coordination challenges, resulting in inefficiencies during events and presentations. Without seamless integration and coordination among components, the client faced difficulties in managing and operating their audiovisual infrastructure efficiently.

### **3. Inadequate support for modern presentation techniques and interactive sessions:**

The existing setup lacked support for modern presentation techniques and interactive sessions, limiting the client's ability to engage their audience effectively. Without the necessary tools and technology, the client struggled to deliver dynamic and engaging presentations that met the evolving needs of their audience.

## **PROVIDED SOLUTIONS**

Working closely with the client, the team developed a comprehensive audiovisual solution tailored to their specific requirements. Here's an overview of the key components installed:

### **Display System:**

The team integrated a high-resolution LED wall processor by **Novastar (4K Prime)** to drive the LED wall, ensuring vibrant and crisp visuals along with a 65" Sidefill Display with custom brackets for optimal viewing angles.

### **Display Support System:**

Installing cutting-edge AV solutions at the venue, the team integrated a custom-designed floor box with HDMI, data, and power connectivity, providing seamless integration with the auditorium setup. All-WAVE AV's team also recommended a **Cisco network switch** with 48 ports for robust network connectivity.

### **Video Conferencing (VC) System:**

The team deployed **Sony PTZ Cameras** (SRG-A12 for Trainer, SRG-A40 for Audience) with **IP-based Joystick Controller**

(**Sony RM-IP500**) for versatile camera control while utilizing **Inogeni HDMI to USB Capture Card** for efficient video capture. They also supplied a thin client PC for wireless presentation capabilities.

### **Audio System:**

All Wave AV's committed team installed amplifiers and DSP for pristine audio output and sophisticated signal processing along with **Sennheiser's** wireless microphones and receivers for clear and reliable audio transmission, a **StuDiomaster AIR16U Analog Mixer** for versatile audio control, and **KME ILS 64 FOH speakers**, mounted in the walls of the auditorium.

### **Lectern**

The integrators provided a custom-designed lectern with USB charging, power sockets, LED light, and an openable flap for convenience during presentations.

### **Control System**

They also implemented **Cue Systems Versatile D AV controller** for centralized control of audiovisual devices and installed custom wall mounts for iPads to streamline user interaction and control.

### **Cables & Connectors**

The team supplied high-quality bulk cables for audiovisual and collaboration needs, ensuring reliable connectivity.

### **Services**

The team offered comprehensive installation, testing, and commissioning services, along with system development and one-year onsite support. They also programmed DSPs to enable complete AV control via iPads, enhancing user experience and convenience.

## **RESULTS ACHIEVED**

### **1. Enhanced communication and collaboration among presenters and**

**The solutions installed included Inogeni HDMI to USB Capture Card for efficient video capture and Sennheiser's wireless microphones and receivers for clear and reliable audio transmission.**

### **audience members:**

By upgrading to state-of-the-art audiovisual technology, the team facilitated clear and immersive communication experiences within the auditorium. The high-resolution LED wall processor and strategically placed displays ensured that visuals were vibrant and crisp, capturing the audience's attention and enhancing comprehension. Additionally, the deployment of advanced VC systems enabled seamless remote collaboration, allowing presenters to engage with remote participants effectively.

### **2. Streamlined operation and control of audiovisual devices, leading to smoother presentations:**

Through the implementation of a comprehensive control system and custom-designed floor boxes, the efficient team addressed the coordination challenges faced by the client. Centralized control of audiovisual devices simplified operation, allowing presenters to focus on delivering their content without disruptions. The integration of network switches and high-quality cables ensured reliable connectivity, minimizing technical glitches and downtime during presentations.

### **3. Modernized infrastructure supporting a wide range of interactive teaching and presentation techniques:**

The revamped audiovisual infrastructure provided the client with the flexibility to adopt modern presentation techniques and interactive sessions. The inclusion of wireless presentation capabilities, custom-designed lecterns, and advanced audio systems empowered presenters to deliver engaging and interactive content. Additionally, the provision of essential accessories such as trolleys, tripods, and AV racks enhanced the versatility and functionality of the auditorium, enabling the client to accommodate diverse event requirements seamlessly.

## **CONCLUSION**

In conclusion, the team's collaborative efforts resulted in a transformative upgrade of their auditorium audiovisuals, addressing key challenges, and unlocking new possibilities for enhanced collaborative experiences. By meticulously analyzing client's pain points and tailoring the solution to their specific requirements, All Wave AV's team successfully modernized their infrastructure while ensuring seamless integration and operation.