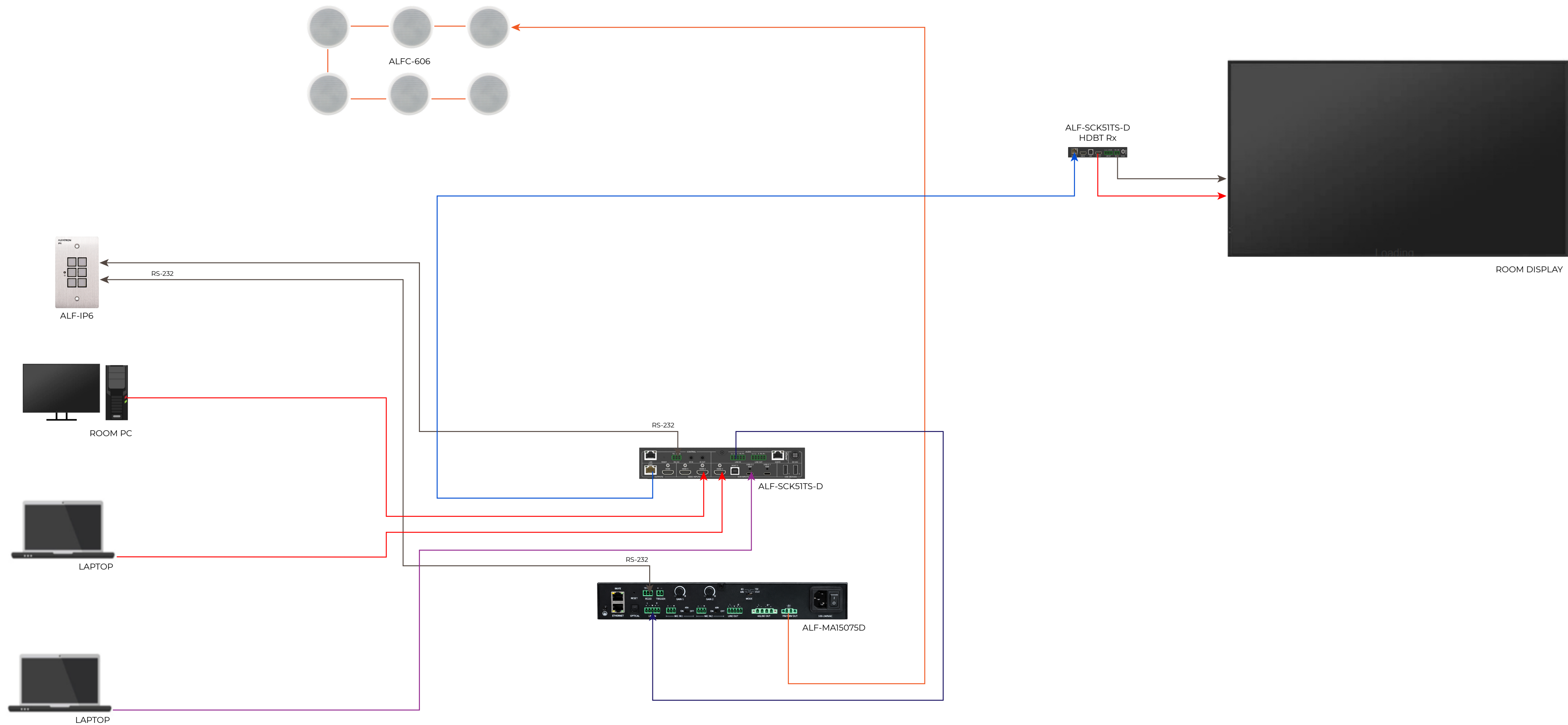




ALF-SCK51TS-D SINGLE-WINDOW PRESENTATION SYSTEM WITH AUDIO AND CONTROL



HDMI



LAN



DANTE



USB 2.0



USB-C



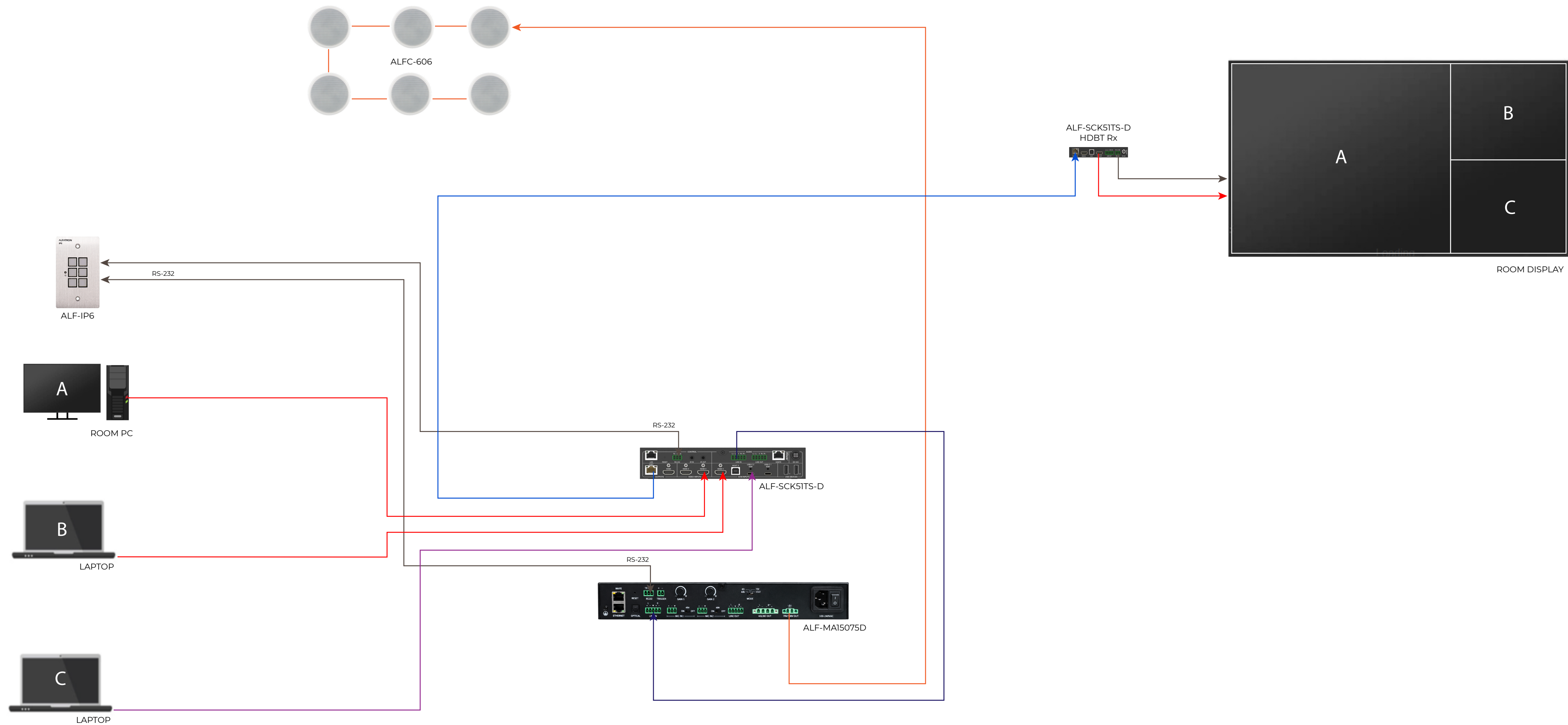
HDBT



SPEAKER



AUDIO



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- HDMI
- LAN
- DANTE
- USB 2.0
- USB-C
- HDBT
- SPEAKER
- AUDIO

The Solution

This solution centres around the ALF-SCK51TS-D, which acts as the primary presentation, scaling, and control hub for modern meeting rooms, training spaces, and collaborative environments. Multiple presentation sources including a room PC and guest laptops connect directly to the unit, where advanced internal scaling ensures all incoming signals are automatically adjusted to a common output resolution. This guarantees consistent image quality regardless of source format and eliminates the need for users to manually configure display settings.

The SCK51TS-D supports both single-window and multi-window presentation modes, allowing the display to show one full-screen source or multiple sources simultaneously in flexible layouts. This enables side-by-side comparisons, collaborative discussions, or multi-participant presentations. Seamless switching technology ensures transitions between sources occur instantly without screen blanking, flicker, or signal resynchronisation, providing a smooth and professional user experience during live presentations.

Video output is delivered via integrated HDBaseT, allowing the system to transmit video, audio, and control over a single category cable to a remote receiver located near the display. This simplifies installation while maintaining signal integrity over long distances. The HDBaseT receiver converts the signal back to HDMI for connection to the room display, ensuring reliable and high-quality content delivery.

Control of the system is handled via both UART and IP-based control using the ALF-IP6, allowing users or third-party control systems to manage source switching, window layouts, and volume adjustments. This provides flexible integration into automated environments while also offering simple wall-mounted user control for everyday operation.

Audio from presentation sources can be mixed within the SCK51TS-D, then routed to the ALF-MA15075D power amplifier. The amplifier drives multiple ALFC-606 ceiling speakers, providing even audio coverage throughout the space. Independent volume control and audio mixing capabilities ensure balanced sound between speech and program audio, eliminating the need for a dedicated external mixer in most applications.

Together, these components create a complete presentation and audio solution that combines high-performance scaling, multi-window display capability, seamless switching, HDBaseT extension with receiver, UART and IP control, and integrated audio mixing with amplification and ceiling speakers, delivering a streamlined and user-friendly system suitable for collaborative meeting and training environments.

ALF-IP6 Overview

The ALF-IP6 is a programmable wall-mounted keypad controller designed for simple and intuitive AV system control. Featuring six configurable buttons, it allows users to manage key room functions such as display power, input selection, volume control, and system on/off. The unit communicates over IP and includes RS-232 and dual IR ports for flexible integration with displays, switchers, and amplifiers. Its clean, low-profile design makes it ideal for meeting rooms, training spaces, classrooms, and hospitality environments requiring reliable, straightforward control.

ALF-SCK51TS-D Overview

The ALF-SCK51TS-D is a multi-format presentation switcher designed for meeting rooms, training spaces, and collaborative environments. Integrated scaling automatically adjusts all connected sources to a common output resolution, while single and multi-window display modes allow flexible content layouts. Seamless switching ensures smooth transitions between presenters. The unit includes two USB-C inputs supporting DisplayPort Alt Mode, USB host functionality, and up to 60W charging, along with a USB-B host paired with HDMI input 3. USB device connections on both the main unit and HDBaseT receiver enable shared access to conferencing peripherals and flexible USB routing. This allows presenters to connect using a single cable while maintaining access to shared room USB devices.

Video is delivered via mirrored HDMI and HDBaseT outputs for simultaneous local and extended display connectivity, with the HDBaseT receiver supporting switchable USB host functionality. Integrated audio processing allows mixing of Line-in, Dante network audio, and embedded HDMI audio with independent volume control. UART and IP control capabilities enable third-party system integration, making the SCK51TS-D a compact all-in-one solution combining scaling, multi-window processing, seamless switching, USB-C connectivity, and flexible audio and control. This combination simplifies installation while providing a scalable and user-friendly presentation platform.

ALF-MA15075D Overview

The ALF-MA15075D is a compact 1U Class-D digital mixing amplifier designed for both low- and high-impedance systems. It delivers 2 × 75W at 4/8Ω or 150W at 70/100V, making it ideal for distributed commercial audio applications. Its Class-D design ensures energy efficiency, low heat output, and reduced inrush current, with automatic standby to minimize power consumption. It features Dante, optical, balanced analogue inputs, and two microphone inputs with phantom power support, along with stereo low-impedance, 70/100V, and balanced line-level outputs. Integrated DSP includes a five-band graphic EQ, TCP/IP web control, trigger input, and front-panel status LEDs, ensuring flexible control and efficient system integration.

ALFC-606 Overview

The ALF-C606 is a 2-way 6" in-ceiling loudspeaker with integrated backbox, designed for distributed audio in seminar rooms, classrooms, training spaces, and lecture venues. It delivers clear sound for both speech and background audio and supports 70V/100V constant-voltage systems with selectable power taps of 30W / 15W / 7.5W, as well as 30W at 8 Ω. The speaker provides a frequency response of 70Hz–20kHz with 90dB (1W/1m) sensitivity, ensuring consistent and reliable audio coverage while maintaining a discreet, low-profile ceiling installation.

Solution Bill of Quantities

- 1 x ALF-SCK51TS-D Scaler switcher
- 1 x ALF-MA15075D Amplifier
- 1 x ALF-IP6 Keypad Controller
- 6 x ALFC-606 Celing Loudspeakers
- 4 x ALF-HDMI 6ft HDMI Cables
- 1 x ALF-USB-C 6ft Cable

Third Party Equipment

- 1 x Display
- 1 x Display mounting bracket

Solution Use Cases

1. Medium Meeting Room – Collaborative Presentations

In a standard meeting room, multiple participants connect laptops via USB-C or HDMI for quick content sharing. The SCK51TS-D enables seamless switching between presenters or displays multiple sources simultaneously using multi-window mode for comparison or discussion. USB peripherals such as a conference camera and microphone are shared automatically via USB routing, while audio from all sources is mixed and sent to the room sound system, creating a smooth and efficient meeting experience.

2. Training Room – Instructor + Student Interaction

In a training environment, the instructor’s PC is displayed as the primary source while student laptops can be brought onto screen using multi-window layouts. The system allows instant switching between instructor and participant content without interruption. USB connectivity enables integration with conferencing platforms, while mixed audio from HDMI, line-in, and Dante ensures clear playback and communication throughout the room.

3. Seminar Room – Dual Display with Overflow Support

For seminar or lecture spaces, the mirrored HDMI and HDBaseT outputs allow content to be shown on a main display and extended to a secondary screen or projector. Presenters can switch seamlessly between sources or display multiple inputs side-by-side for panel discussions. The HDBaseT receiver enables long-distance signal extension, while USB device sharing allows presenters to use room cameras or peripherals without reconnecting cables.

4. Hybrid Collaboration Space – BYOD Conferencing

In hybrid meeting spaces, users connect via USB-C for a single-cable BYOD experience, gaining access to room display, camera, and audio systems. The switchable USB host functionality ensures that conferencing peripherals follow the active presenter automatically. Audio from multiple sources—including Dante network audio—is mixed and controlled centrally, while IP or UART control allows integration with automation systems for a fully managed and user-friendly collaboration environment.

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