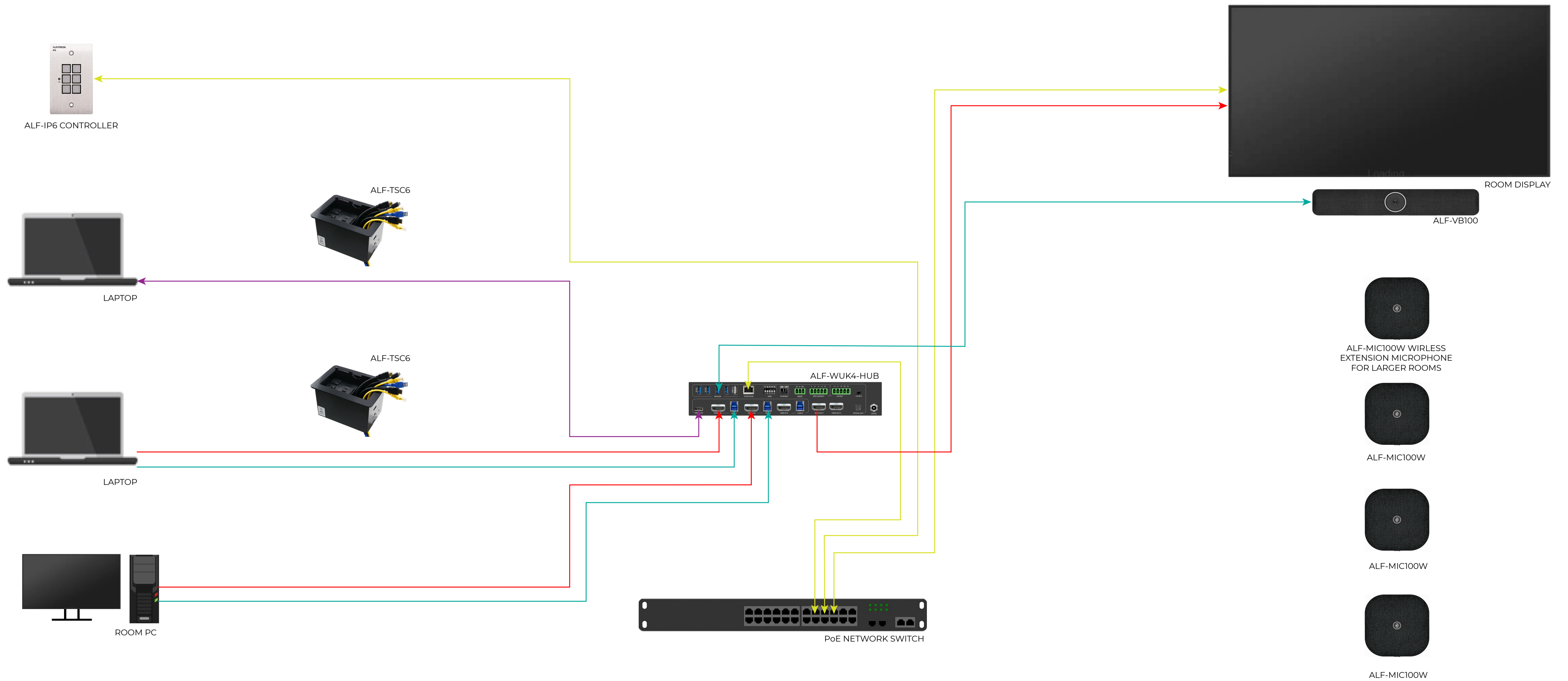




ALF-VB100 MEDIUM TO LARGE MEETING ROOM BYOM UC SOLUTION



HDMI



LAN



DANTE



USB 3.0



USB 2.0



USB-C



HDBT



SPEAKER



AUDIO

The Solution

This meeting room solution provides a flexible and intuitive conferencing environment built around the Alfatron ALF-VB100 video collaboration soundbar and the ALF-WUK4-HUB collaboration hub, enabling seamless support for both dedicated room PC conferencing and bring-your-own-device (BYOD) laptop meetings. The ALF-VB100 integrates a 4K AI-driven camera, beamforming microphone array with up to 5 m voice pickup range, and built-in loudspeaker into a single soundbar-style device mounted beneath the room display, delivering high-quality video and clear audio for conferencing platforms such as Microsoft Teams, Zoom, and other UC applications.

At the core of the system, the ALF-WUK4-HUB manages video, USB, and peripheral connectivity within the room. Multiple sources including the room PC and user laptops can be connected simultaneously, allowing participants to present content or host meetings from their preferred device. The hub provides seamless switching between connected sources, automatically routing video, audio, and USB peripherals such as the VB100 camera and microphones to the active device, ensuring smooth transitions between presenters without manual reconfiguration.

Table-mounted ALF-TSC6 connection boxes provide convenient HDMI and USB connectivity directly at the meeting table, enabling users to easily connect their laptops for content sharing or conferencing. A PoE network switch provides network connectivity for the system components and control infrastructure, while the ALF-IP6 wall controller offers simple control of system power, display on/off, and source selection.

For larger meeting rooms or boardroom environments, the system can be expanded using ALF-MIC100W wireless extension microphones, allowing flexible microphone placement without the need for additional cabling. Up to four wireless microphones can be deployed within a single room to extend audio pickup coverage across large meeting tables, and microphones can also be paired with different ALF-VB100 systems in separate rooms depending on room size or meeting requirements.

Overall, the solution delivers a clean, scalable, and easy-to-operate meeting room environment, combining high-quality conferencing technology, flexible connectivity, seamless source switching, intuitive room control, and expanded wireless microphone coverage for larger collaboration spaces.

ALF-IP6 Controller 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-VB100 Overview

The Alfatron ALF-VB100 is an all-in-one video collaboration soundbar designed for meeting rooms, huddle spaces, and training environments. The unit integrates a 4K AI camera, beamforming microphone array, and loudspeaker into a single compact device that connects to a room PC or conferencing appliance via USB, providing a simple and efficient conferencing solution for platforms such as Microsoft Teams, Zoom, and other UC applications.

The system features intelligent camera modes including Speaker Tracking, Auto Framing, and Auto Tiling, allowing the camera to automatically adjust the view to ensure meeting participants remain clearly visible and properly framed throughout the meeting. The VB100 includes a built-in microphone array with a voice pickup range of up to 5 meters, supported by advanced audio processing such as acoustic echo cancellation, noise reduction, and automatic gain control, ensuring clear and natural speech during calls. For larger rooms or boardroom environments, the system also supports optional expansion microphones (wired or wireless) to extend audio pickup coverage further across the meeting space when required.

ALF-MIC100W Overview

The Alfatron ALF-MIC100W is a wireless expansion microphone system designed to extend the audio pickup range of compatible Alfatron conferencing solutions such as the ALF-VB100 video collaboration soundbar. The system includes wireless tabletop microphones and a receiver, allowing flexible placement around a meeting table without additional cabling, making it ideal for medium to large meeting rooms, boardrooms, and training spaces. It provides clear voice capture for participants seated further from the main device while supporting flexible pairing with ALF-VB100 systems in different rooms, allowing microphones to be reassigned between spaces as needed.

ALF-TSC6 Overview

The ALF-TSC6 is a versatile table-mounted connectivity hub that combines power outlets, USB charging, HDMI, USB-C, networking, and audio cables in a sleek, durable, easy-to-install enclosure. Its slidable cover and brushed aluminum design make it ideal for maintaining a clean, professional conference table surface.

Solution Bill of Quantities

- 1 x ALF-IP6 Controller
- 2 x ALF-TSC6 Table Box/AV Interface
- 1 x ALF-WUK4-HUB
- 1 x ALF-VB100 Video Bar
- ALF-MIC100W
- 2 x ALF-HDMI 6ft HDMI Cable
- 1 x ALF-HDMI 16ft HDMI Cable
- 1 x ALF-HDMI 35ft HDMI Cable

Third Party Equipment

- 1 x Display
- 1 x Display mounting bracket
- 1 x PoE Network Switch

Solution Use Cases

1. Corporate Meeting Rooms

This solution is ideal for corporate meeting rooms where teams need a reliable platform for hybrid collaboration. The ALF-VB100 provides high-quality video and audio for remote participants, while the ALF-WUK4-HUB allows users to easily connect their laptops for presentations or conferencing. Seamless switching between the room PC and BYOD devices ensures meetings can transition smoothly between presenters without technical interruptions, while the ALF-IP6 wall controller allows simple control of system power and source selection.

2. Boardrooms

In boardroom environments where multiple participants regularly present content, the system enables quick switching between different laptops or the room PC through the collaboration hub and table connection points. The 4K camera and intelligent framing features of the VB100 ensure that all participants remain visible during discussions, while the optional ALF-MIC100 extension microphone improves audio pickup across larger meeting tables.

3. Training and Collaboration Spaces

For training rooms and collaborative workspaces, instructors or presenters can easily connect their laptops through the table connection boxes to display content on the main screen while maintaining conferencing capabilities. The system supports both local presentations and remote training sessions, allowing instructors to interact with in-room participants while engaging remote attendees.

4. BYOD Video Conferencing Rooms

The solution is well suited for flexible BYOD conferencing environments where users may run meetings from their own laptops. By connecting their device through the table interface, users gain instant access to the room’s camera, microphones, display, and audio system, allowing them to host professional-quality meetings using their preferred conferencing platform without needing to configure additional hardware.