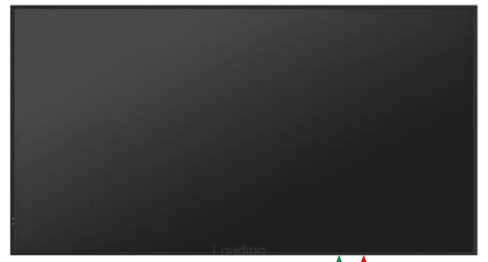

INTERACTIVE ROOM DISPLAY

ALF-10XUSB

ALF-TSC6

LAPTOP

ALF-UC1-GEN2

ALF-WMP4

LAPTOP

AILF-USBC-D (GEN2)

LAPTOP

AILF-HDMI-D (GEN2)

CLIENT NETWORK

ALF-WMP4
Wireless
Microphone 1

ALF-WMP4
Wireless
Microphone 2

ALF-WMP4
Wireless
Microphone 3

ALF-WMP4
Wireless
Microphone 4

ALF-WMP4 - ALF-UC1-GEN2
SMALL TO MEDIUM MEETING INETERACTIVE ROOM BYOM UC AUDIO

HDMI

LAN

DANTE

USB 30

USB 2.0

USB-C

HDBT

SPEAKER

AUDIO

The Solution

This solution delivers a flexible wireless conferencing and collaboration system designed for small to medium meeting rooms, centred around the Alfatron ALF-UC1-GEN2 wireless conferencing hub and the ALF-WMP4 wireless microphone system. The ALF-UC1-GEN2 enables seamless BYOM (Bring Your Own Meeting) operation, allowing users to run conferencing applications from their own laptop while leveraging the room's professional camera, microphones, and display. Participants can share content wirelessly using the UC1 application, or connect using optional USB-C or HDMI wireless dongles for secure one-touch presentation.

The ALF-UC1-GEN2 supports both wired and wireless presentation workflows. A direct USB-C input allows users to connect laptops using Alt-DisplayPort for video, while simultaneously providing USB host connectivity for conferencing peripherals. An HDMI input is also available for presentation-only sources such as guest laptops or media devices. These options ensure compatibility with a wide range of devices while maintaining a clean, cable-free meeting environment.

Wireless collaboration is enhanced through multiview sharing, allowing multiple participants to present simultaneously. Content can be shared via the UC1 app, USB-C dongles, HDMI dongles, or the wired USB-C input, providing flexible connection methods depending on user preference. The system routes video to the room display while also interfacing with the USB conference camera, enabling full BYOM conferencing with platforms such as Teams, Zoom, Webex, and Google Meet.

Interactive collaboration is supported through USB touchback functionality. By connecting a USB cable between the interactive room display and the USB touchback port on the ALF-UC1-GEN2, presenters can control their laptop directly from the touchscreen. This enables annotation, whiteboarding, and application control from the front of the room, improving engagement during meetings and training sessions.

Room audio is handled by the ALF-WMP4 wireless microphone processor, supporting up to four wireless tabletop microphones. These microphones provide clear voice pickup across the meeting table without requiring cabling, making them ideal for flexible room layouts. Integrated echo cancellation ensures natural communication for both local and remote participants, while wireless microphone placement allows the system to adapt to changing furniture configurations.

Together, the ALF-UC1-GEN2 and ALF-WMP4 create a complete wireless conferencing solution that combines BYOM conferencing, multi-source wireless presentation, USB touchback interaction, and flexible wireless audio capture, delivering a clean and highly collaborative meeting environment.

ALF-WMP4 Overview

The ALF-WMP4 is a compact wireless microphone processor designed for small to medium meeting rooms, delivering high-quality audio for BYOM conferencing environments. It connects to a host laptop via USB and integrates seamlessly with platforms such as Microsoft Teams, Zoom, Webex, and Google Meet.

Supporting up to four wireless tabletop microphones, the ALF-WMP4 adapts easily to different room layouts while providing clear voice pickup across the meeting space. Built-in digital signal processing with Acoustic Echo Cancellation (AEC) ensures natural, echo-free communication. The wireless microphones eliminate table cabling, charge in approximately 3 hours, and provide up to 14 hours of operation, making the system ideal for flexible and reliable meeting room deployment.

ALF-10XUSB2C Overview

The ALF-10XUSB2C is a professional USB conference camera designed for meeting rooms, collaboration spaces, and BYOM conferencing environments. It connects directly to a host laptop via USB for simple plug-and-play operation and supports platforms such as Microsoft Teams, Zoom, Webex, and Google Meet.

Featuring a high-performance imaging sensor with 10x optical zoom and PTZ functionality, the camera delivers clear, detailed video and flexible framing for boardrooms, training rooms, and medium-sized conference spaces. Its reliable USB connectivity and professional video quality make it an ideal solution for modern hybrid meeting environments.

ALF-UC1-GEN2 Overview

The ALF-UC1-GEN2 is a wireless BYOM conferencing and presentation hub designed to simplify collaboration in small to medium meeting rooms. It enables users to run meetings from their own laptops while utilising the room's USB camera, microphones, and display, creating a seamless wireless conferencing experience. Content can be shared wirelessly via the UC1 application, or through optional USB-C and HDMI wireless dongles, providing flexible and secure connection options for both regular users and guests.

The unit supports direct USB-C input with Alt-DisplayPort for video and USB host connectivity, allowing a single cable to carry presentation content and connect to room peripherals. An additional HDMI input is available for presentation-only sources such as guest laptops or media players. Multiview capability allows multiple presenters to share content simultaneously, improving collaboration during meetings and workshops.

The ALF-UC1-GEN2 also supports USB touchback functionality, enabling control of a connected laptop from an interactive room display by linking the display's USB connection to the UC1 touchback port. This allows presenters to annotate, navigate, and interact with content directly from the touchscreen.

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-UC1-GEN2 Wireless conferencing system
- 1 x ALF-WMP4 USB-Wireless microphone sytem
- 1 x ALF-10XUSB2C Camera
- 1 x ALF-TSC6 Table box
- 1 x ALF-HDMI 35ft HDMI Cable
- 1 x ALF-USBC-16.5FT
- 1 x ALF-USB 2.0 USB 35ft Extension cable (optional)

Third Party Equipment

- 1 x Display
- 1 x Display mounting bracket

Solution Use Cases

1. Small Meeting Rooms (Huddle Spaces)

In small meeting rooms or huddle spaces, the ALF-WMP4 provides a simple and effective audio solution for small teams conducting hybrid meetings. One or two wireless tabletop microphones can be placed on the meeting table to capture voices clearly from all participants. The system connects to a user's laptop via USB, enabling seamless BYOM conferencing with platforms such as Microsoft Teams or Zoom. The wireless design eliminates cables on the table, maintaining a clean workspace while ensuring clear communication between in-room and remote participants.

2. Medium Meeting Rooms

For medium-sized meeting spaces, the ALF-WMP4 can utilise two to four wireless microphones simultaneously, providing broader coverage across larger tables or multi-seat layouts. Microphones can be positioned strategically around the table to ensure consistent voice pickup for all participants. Integrated AEC processing removes echo from room loudspeakers, ensuring natural and intelligible conversations for remote attendees. This setup is ideal for team collaboration meetings, client presentations, and hybrid project discussions.

3. Training Rooms with Group Discussions

In training rooms or workshop environments where multiple participants may speak from different positions, the ALF-WMP4 provides flexible microphone deployment to support active discussions. Up to four wireless microphones can be distributed across tables or group seating areas, ensuring every participant can be heard clearly during Q&A sessions or group exercises. The wireless design allows microphones to be easily moved as participants change seating arrangements or form breakout groups.

4. Flexible Meeting Spaces and Reconfigurable Rooms

In meeting environments where furniture layouts change frequently—such as multi-purpose rooms or collaborative workspaces—the ALF-WMP4 offers adaptable audio coverage. Because the microphones are wireless and support 1 to 4 simultaneous units, they can be repositioned quickly depending on the room configuration, whether the layout is boardroom-style, classroom-style, or small group clusters. This flexibility ensures reliable audio capture regardless of how the space is arranged, making the system ideal for dynamic collaboration environments.

5. Interactive Meeting Rooms with Touchback Collaboration

In meeting rooms equipped with an interactive touchscreen display, the ALF-UC1-GEN2 enables full USB touchback control, allowing presenters to operate their laptop directly from the room display. By connecting the display's USB touch interface to the UC1 touchback port, users can annotate presentations, navigate documents, and control conferencing applications directly on the screen. This is particularly useful for brainstorming sessions, design reviews, and interactive training, where presenters can move to the front of the room and actively engage with content. Combined with the ALF-WMP4 wireless microphones, both in-room and remote participants can clearly follow discussions while the presenter interacts dynamically with shared material.