

ALF-TSC6

ALF-WMP4

ALF-10XUSB

ROOM DISPLAY

LAPTOP

ALF-WMP4 Wireless Microphone 1



ALF-WMP4 Wireless Microphone 2

ALF-WMP4 Wireless Microphone 3

ALF-WMP4 Wireless Microphone 4



ALF-WMP4  
SMALL TO MEDIUM MEETING ROOM BYOM UC AUDIO SOLUTION

-   
HDMI
-   
LAN
-   
DANTE
-   
USB 3.0
-   
USB 2.0
-   
USB-C
-   
HDBT
-   
SPEAKER
-   
AUDIO

## The Solution

This solution provides a flexible Bring-Your-Own-Meeting (BYOM) audio platform designed for small to medium sized meeting spaces. The system is centred around the ALF-WMP4 wireless microphone processor, enabling simple integration with most modern conferencing platforms such as Microsoft Teams, Zoom, Webex, or Google Meet through a connected laptop.

The ALF-WMP4 acts as the core audio interface for the room, managing wireless microphones, audio processing, and USB connectivity to the host computer. Between one and four ALF-WMP4 wireless tabletop microphones can be deployed within the meeting space, depending on the room layout, furniture arrangement, and the number of meeting participants. This flexibility allows the system to be optimally adapted to different table sizes and seating configurations while ensuring clear voice capture from all participants.

The wireless microphones communicate directly with the WMP4 processor, eliminating the need for complex cabling across the meeting table while providing stable, low-latency audio transmission. The ALF-WMP4 incorporates advanced digital signal processing including Acoustic Echo Cancellation (AEC) to ensure clear and natural voice reproduction during conferencing sessions. The AEC processing removes echo caused by room loudspeakers or far-end audio playback, allowing remote participants to hear local participants clearly without feedback or echo artifacts.

Audio from the wireless microphones is processed by the ALF-WMP4 and delivered to the host laptop via USB, allowing the computer to recognise the system as a standard USB audio device. This enables seamless use with any UC platform without requiring additional drivers or software configuration.

For video conferencing, a USB conference camera (ALF-10XUSB) connects directly to the laptop, providing high-quality video capture for remote participants. The laptop's video output is simultaneously routed to the room display, ensuring that meeting content and remote participants are clearly visible to everyone in the room.

Cable management and connectivity are provided through the ALF-TSC6 table box. Installed within the meeting room table, it provides convenient access to power outlets for laptop chargers, as well as HDMI, USB, and Ethernet connections for simple laptop integration during meetings.

This architecture delivers a clean meeting table environment with minimal visible cabling, while maintaining reliable professional audio performance. The use of USB connectivity and wireless microphones ensures the system remains simple to deploy, scalable, and compatible with a wide range of conferencing workflows.

The result is a compact, easy-to-operate collaboration solution that provides high-quality audio capture, simple user operation, and seamless integration with modern unified communication platforms.

## ALF-WMP4 Overview

The ALF-WMP4 is a compact wireless microphone processor designed for small to medium sized meeting rooms, providing high-quality audio for Bring-Your-Own-Meeting (BYOM) conferencing environments. The system integrates easily with platforms such as Microsoft Teams, Zoom, Webex, and Google Meet via a simple USB connection to a host laptop or conferencing computer.

The ALF-WMP4 manages wireless microphone connectivity, audio processing, and USB audio interfacing. Between one and four wireless tabletop microphones can be used simultaneously, allowing the system to be adapted to different room layouts and participant numbers. Integrated digital signal processing with Acoustic Echo Cancellation (AEC) ensures clear and natural speech while eliminating echo from room audio playback.

The wireless microphones communicate directly with the processor, removing the need for cables across the meeting table. Microphones fully charge in approximately 3 hours and provide up to 14 hours of operating time depending on usage.

With plug-and-play USB connectivity, the ALF-WMP4 is recognised as a standard USB audio device, enabling seamless integration with modern unified communication platforms.

## ALF-10XUSB2C Overview

The ALF-10XUSB2C is a professional USB conference camera designed to deliver high-quality video for meeting rooms, collaboration spaces, and BYOM conferencing environments. Supporting modern platforms such as Microsoft Teams, Zoom, Webex, and Google Meet, the camera connects directly to a host laptop or conferencing computer via USB, providing simple plug-and-play operation without requiring additional drivers.

Equipped with a high-performance imaging sensor and 10x optical zoom, the ALF-10XUSB2C delivers clear, detailed video that ensures meeting participants remain visible even in larger meeting spaces. The camera's PTZ (Pan-Tilt-Zoom) functionality allows flexible framing of the meeting area, making it suitable for boardrooms, training rooms, and medium-sized conference environments.

The camera integrates easily with existing AV systems and can be positioned to capture the entire meeting space or focus on specific participants when required. Its USB connectivity and professional imaging performance make it an ideal companion for modern meeting room solutions where reliable video quality and simple deployment are essential.

Designed for reliability and ease of use, the ALF-10XUSB2C provides a flexible and high-quality video capture solution for today's unified communication and hybrid meeting environments.

## 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-WMP4 USB-Wireless microphone system
- 1 x ALF-10XUSB2C Camera
- 1 x ALF-TSC6 Table box
- 1 x ALF-HDMI 35ft HDMI Cable
- 1 x ALF-USB 2.0 USB 35ft Extension cable
- 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 utilize 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.