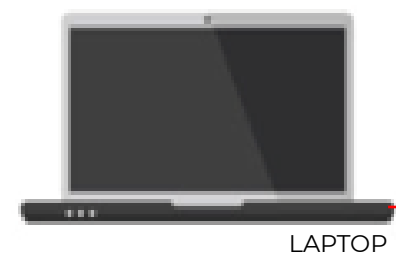
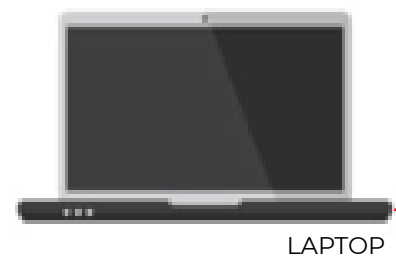




LAPTOP



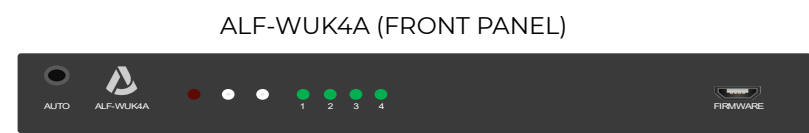
LAPTOP



LAPTOP



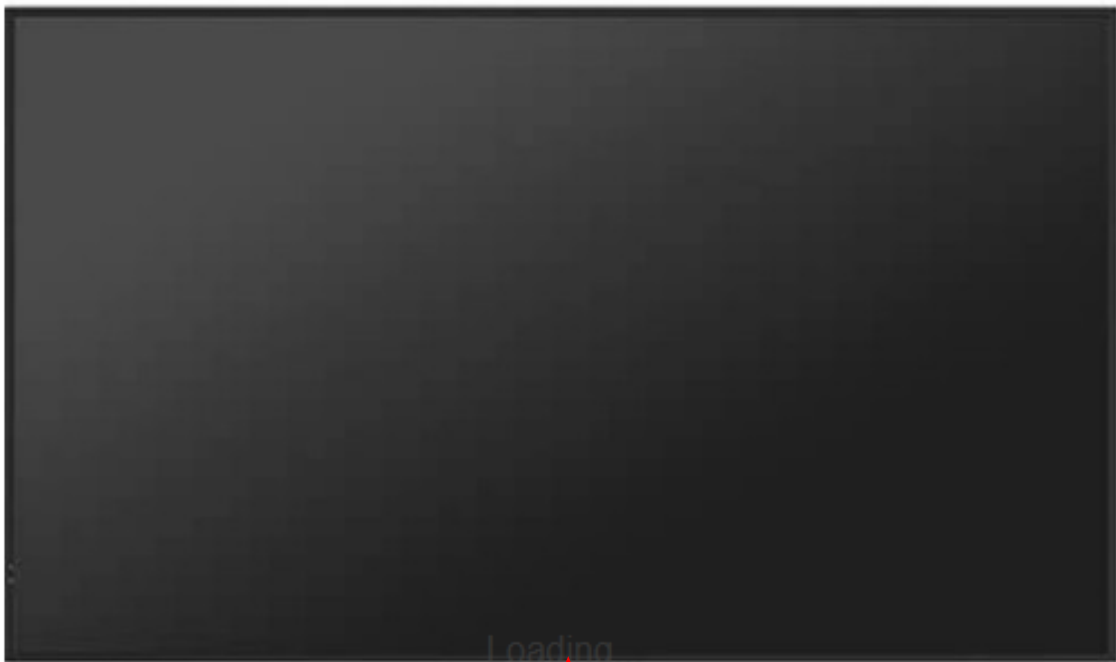
ROOM PC



ALF-WUK4A (FRONT PANEL)



ALF-WUK4A (REAR PANEL)



ROOM DISPLAY WITH AUDIO



ALF-WUK4A
VIDEO VIDEO SWITCHING SOLUTION



HDMI



LAN



DANTE



USB 3.0



USB 2.0



USB-C



HDBT



SPEAKER



AUDIO

The Solution

This solution provides a simple and reliable wired AV presentation system built around the ALF-WUK4A, a 4x1 HDMI switcher designed to manage multiple input sources and deliver a single, high-quality output to a display. It is ideal for meeting rooms, classrooms, and small presentation spaces where users need to connect multiple devices and switch between them quickly and efficiently.

The system supports up to three HDMI input sources, such as a laptop, media player, or room PC, allowing multiple devices to remain connected at all times. The ALF-WUK4A offers both automatic and manual switching modes, automatically selecting an active input when a source is connected or powered on, or allowing users to manually select the desired input for greater control. This flexibility ensures smooth operation in both simple plug-and-present environments and more controlled presentation scenarios.

With support for 4K resolution, the ALF-WUK4A ensures sharp, high-quality video output, making it suitable for modern displays and detailed content such as presentations, spreadsheets, and video playback. The switcher maintains signal integrity across all inputs, delivering consistent performance for both static and dynamic content.

The selected source is output via HDMI to the main display, while the system remains easy to operate with straightforward input selection and minimal user intervention. This simplicity reduces setup time and ensures reliable operation in environments with frequent device connections.

Overall, this solution delivers a clean and efficient wired switching setup. With the ALF-WUK4A at its core, it provides reliable multi-source connectivity, flexible switching options, 4K video support, and consistent performance, making it a practical solution for everyday AV presentation needs.

ALF-WUK4A Overview

The ALF-WUK4A is a compact and reliable 4x1 HDMI switcher designed to simplify multi-source connectivity in professional AV environments. It allows up to three HDMI input devices—such as laptops, media players, or room PCs—to be connected simultaneously and switched to a single display output, making it ideal for meeting rooms, classrooms, and huddle spaces.

The unit supports both automatic and manual switching modes, providing flexibility for different use cases. In auto mode, the switcher detects and selects the active input when a device is connected or powered on, enabling a seamless plug-and-present experience. In manual mode, users can select inputs directly, offering greater control in structured presentation or controlled environments.

With support for 4K video resolution, the ALF-WUK4A ensures sharp and detailed image quality, making it suitable for modern displays and high-resolution content. It maintains stable signal performance across all inputs, ensuring consistent and reliable operation for both static and dynamic media.

Designed for ease of use and quick installation, the ALF-WUK4A provides a straightforward solution for managing multiple HDMI sources. Its compact form factor and intuitive operation make it a practical and efficient choice for everyday AV switching applications.

Solution Bill of Materials

- 1 x ALF-WUK4A HDMI switcher
- 4 x ALF-HDMI 6ft HDMI Cables
- 1 x ALF-HDMI 16.5ft Cable

Third Party Equipment

- 1 x Room Display
- 1x Room display mounting bracket

Solution Use Cases

1. Small Meeting Rooms (Plug-and-Present)

The ALF-WUK4A allows multiple users to connect laptops via HDMI, with automatic switching selecting the active source instantly. This creates a seamless plug-and-present experience with no manual input selection required.

2. Classrooms and Training Rooms

Instructors can connect a PC, document camera, and laptop, using manual switching to control content flow. 4K support ensures clear display of presentations and video content.

3. Boardrooms with Multiple Presenters

Multiple presenters can stay connected, with manual switching used to control which source is shown. This is ideal for structured meetings and professional presentations.

4. Digital Signage and Media Switching

The switcher can toggle between a media player, PC, and live source using auto or manual switching. 4K output ensures high-quality visuals for signage and content display.