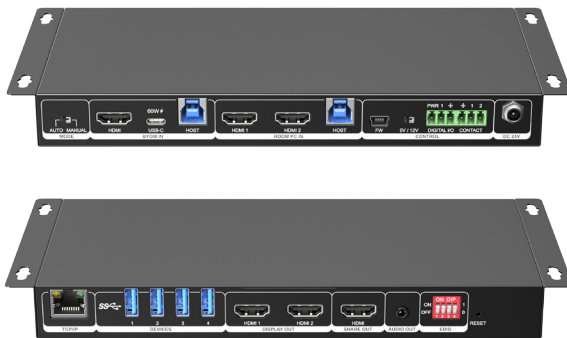


AVS-VC43-KVMWC

18G 4x3 VC Switcher w/ Charging



The ABtUS AVS-VC43-KVMWC HDMI 2.0 Web-Conferencing Room Switcher. The matrix switcher simplifies meeting room and presentation space system integration by providing two video mode (BYOM mode and Standard mode) with three HDMI inputs, one USB-C input and three HDMI output. The USB-C input supports video, data and power charging up to 60w. There is a 4 port USB client hub built with 3 USB host ports that can be switched independently.

The matrix switcher supports resolution up to 4K@60Hz@4:4:4, is HDCP 2.2 compliant and has a built in USB 3.0 switching hub for control and integration of USB devices such as USB cameras and microphones.

The matrix switcher supports auto switching, allows users to control the system functionality via TCP/IP, Digital I/O, contact and front panel.

Features

- HDMI 2.0 and HDCP 2.2 compliant.
- Video resolution up to 4K@60Hz 4:4:4, 8bit deep color.
- Supports auto switching.
- USB-C input supports power charging up to 60w.
- Provides an audio outputs for audio de-embedding.
- Automatically switch between the dedicated room system and bring your own meeting (BYOM).
- Supports audio output volume control.
- Use the same Laptop cable between wired screen sharing and bring your own meetings.
- Send CEC signals to the room displays via events and built-in scheduler.
- Supports EDID management.
- Occupancy sensor integration.
- Controllable via TCP/IP, Digital I/O, contact and front panel.

Technical specification

Video

Input	3 x HDMI 1 x USB-C
Input Connector	3 x Type-A female HDMI 1 x USB-C
input Video Resolution	Up to 4K@60Hz 4:4:4, HDR

Video

Output	3 x HDMI
Output Connector	3 x Type-A Female HDMI
Output Video Resolution	Up to 4K@60Hz 4:4:4, HDR
HDMI Version	Up to 2.0
HDCP Version	Up to 2.2
Bandwidth	18Gbps

Audio

Output	1 x Audio Out
Output Connector	1 x 3.5mm Audio Jack
Frequency Response	20Hz to 20kHz, ± 3 dB
Max Output Level	2.2 ± 0.1 Vrms
THD+N	< 0.1%, 20Hz to 20kHz bandwidth, 1 kHz sine at 0dBFS level (or max level)
SNR	> 80dB, 20Hz to 20kHz bandwidth
Crosstalk Isolation	< -70 dB, 10kHz sine at 0dBFS level
L-R Level Deviation	< 0.3 dB, 1kHz sine at 0dBFS level (or max level before clipping)
Output Load Capability	1k Ω and higher (supports 10x paralleled 10K Ω loads)
Noise Level	- 75dB

Control

Control Port	1 x TCP/IP, 1 x Digital I/O, 2 x Contact, 2 x USB Host, 4 x USB Device
Control Connector	1 x RJ45, 2 x 3-pin terminal blocks, 2 x Type-B USB, 4 x Type-A USB

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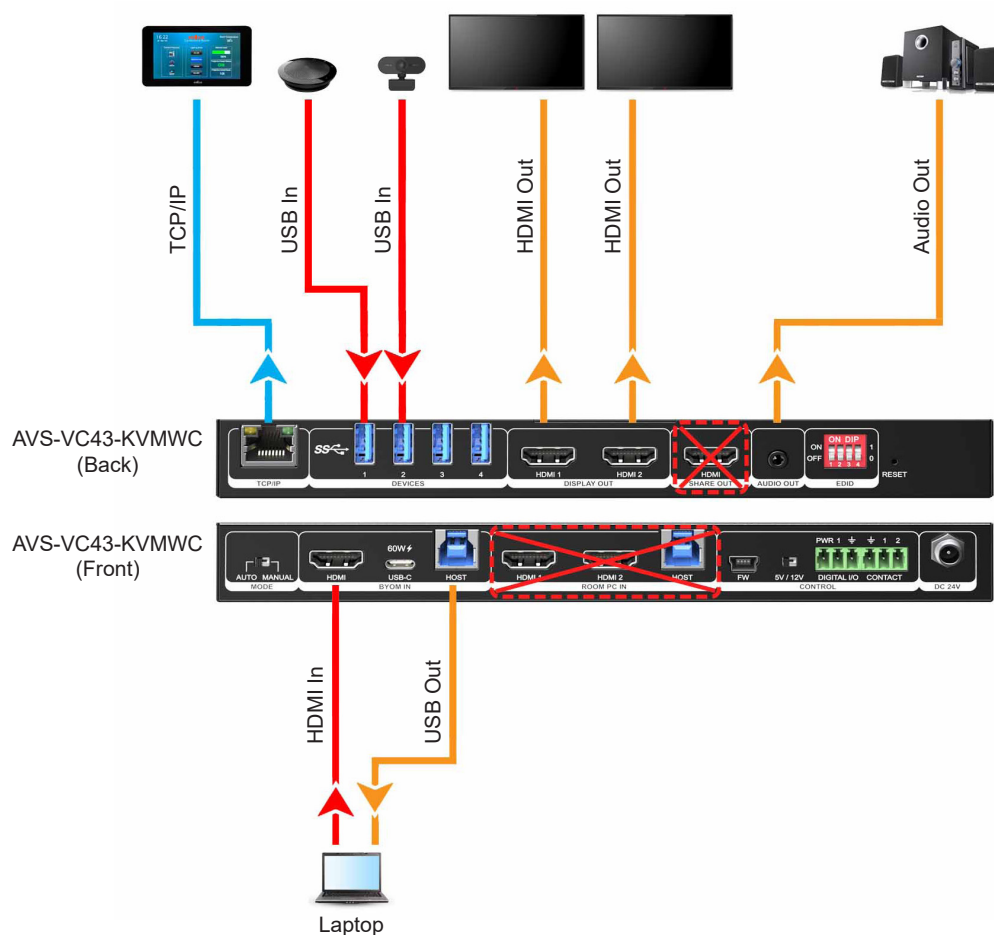
Technical Specification

General

Operation Temperature	-5 to +55° C (+23° to +131°F)
Storage Temperature	-25 to +70° C (-13° to +158°F)
Relative Humidity	10% to 90%, Non-condensing
External Power Supply	24V DC 5A
Power Consumption	70W (Max)
Dimension (W*H*D)	220mm x 25mm x 110mm
Net Weight	0.55KG

Diagram

BYOM Mode



BYOM (Bring Your Own Meeting) mode allows users to connect their own laptop and utilize the room's AV peripherals for online meetings.

1. The video signal from the LAPTOP BYOM IN interface (USB-C or HDMI) is routed to both DISPLAY OUT HDMI outputs.
2. Connected USB peripherals (e.g., camera, microphone, speakerphone, touch display, keyboard, and mouse) automatically switch to the active laptop source:
 - USB-B host when the HDMI input is selected.
 - USB-C host when the USB-C input is selected.
3. Audio from the selected LAPTOP BYOM IN source (USB-C or HDMI) is de-embedded and routed to the audio output.

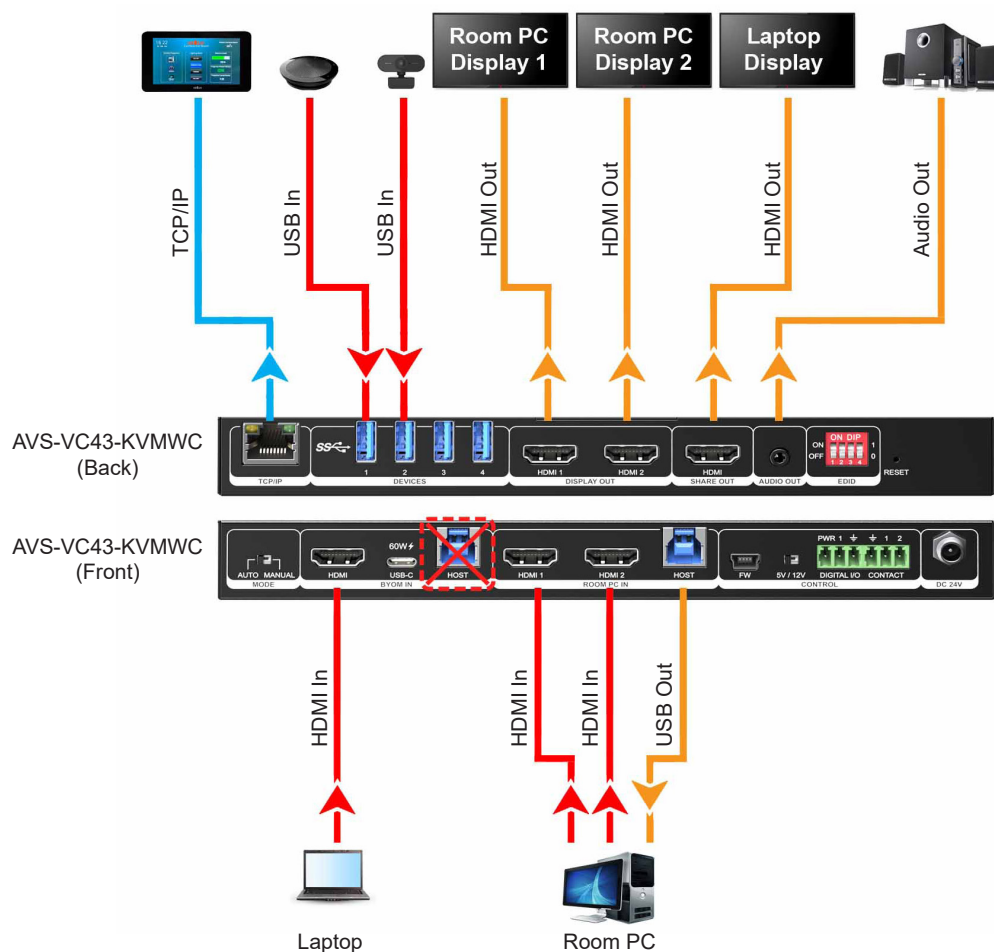
Note: If both USB-C and HDMI connections are detected simultaneously, the HDMI input will take priority and be selected automatically

AVS-VC43-KVMWC

18G 4x3 VC Switcher w/ Charging

Diagram

Standard Mode (Dedicated Room PC with Laptop)



Standard Mode is designed for meeting rooms with a dedicated room PC while allowing users to connect a laptop for content sharing.

1. The two ROOM PC-IN HDMI inputs are routed independently to their respective DISPLAY OUT outputs.
2. The LAPTOP IN interface (USB-C or HDMI) is routed to the SHARE OUT output for content sharing locally.
3. Connected USB peripherals (e.g., camera, microphone, speakerphone, touch display, keyboard, and mouse) are assigned to the USB-B host of the ROOM PC-IN.
4. Audio is de-embedded from HDMI 1 of the ROOM PC-IN and routed to the audio output.