

MP-SUH41MV

4K 4x1 Seamless Switcher with Multi-view



4K seamless switching + multi-view processing

A compact 4-input / 1-output HDMI switcher and video scaler designed to display multiple 4K sources on a single display, with flexible multi-view layouts, audio embedding/mixing, de-embedding and comprehensive control options.

Key Features

• 4 × HDMI inputs and 1 × HDMI output	• Supports up to 4K@30Hz 4:4:4 input and up to 4K@30Hz RGB output
• HDMI 1.4b with HDCP up to 2.2	• Seamless switching between four input sources
• Auto scaler on each source input	• Audio embedding, mixing and de-embedding
• Auto-switching for single-window operation	• 16 predefined multi-view layouts
• Three window-size options; FPGA-based customizable layout handling	• Front-panel, IR remote, web GUI and RS232 control

Applications

Presentation & Collaboration Multi-source presentation, meeting rooms and collaboration spaces.	Control Rooms Four source views on one display with rapid source selection.	Education & Training Flexible multi-view monitoring and classroom presentation.
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Technical Specifications

Detailed electrical, video, audio, control and environmental specifications.

VIDEO	
Video Input	(4) HDMI IN (1–4)
Input Connector	Type-A female HDMI
Input Resolution	Up to 4K@30Hz 4:4:4
Video Output	(1) HDMI
Output Connector	Type-A female HDMI
Output Resolution	Up to 4K@30Hz RGB
HDMI Standard	HDMI 1.4b
HDCP	Up to HDCP 2.2

AUDIO INPUT	
Audio Inputs	(1) LINE IN, (1) MIX IN
Connector	(2) 3-pin terminal connectors
Frequency Response	20 Hz – 20 kHz, ± 3 dB
Maximum Input Level	-10 dBV (316 mV) nominal consumer line-level signal
Input Impedance	> 10 k Ω
Audio Format	PCM 2CH

AUDIO OUTPUT	
SPDIF Output	(1) SPDIF via Toslink
SPDIF Frequency Response	20 Hz – 20 kHz, ± 1 dB
SPDIF THD+N	< 0.05%
SPDIF SNR	> 90 dB
Analog Audio Output	(1) 3.5 mm mini jack
Analog Frequency Response	20 Hz – 20 kHz, ± 1 dB
Analog Maximum Output	2.0 Vrms ± 0.5 dB
Analog THD+N	< 0.05%
Analog SNR	> 80 dB
Output Load Capability	1 k Ω and higher

CONTROL & GENERAL	
Control Ports	(1) RS232, (1) TCP/IP
Control Connectors	(1) 3-pin terminal connector, (1) RJ45

CONTROL & GENERAL	
Operating Temperature	-5°C to +55°C
Storage Temperature	-25°C to +70°C
Relative Humidity	10% – 90%
Power Supply	Input: AC 100–240V, 50/60Hz; Output: 24V DC, 1.25A
Power Consumption	13 W (Max.)
Dimensions (W × H × D)	285 × 27 × 172.5 mm
Net Weight	1.24 kg

Important Note

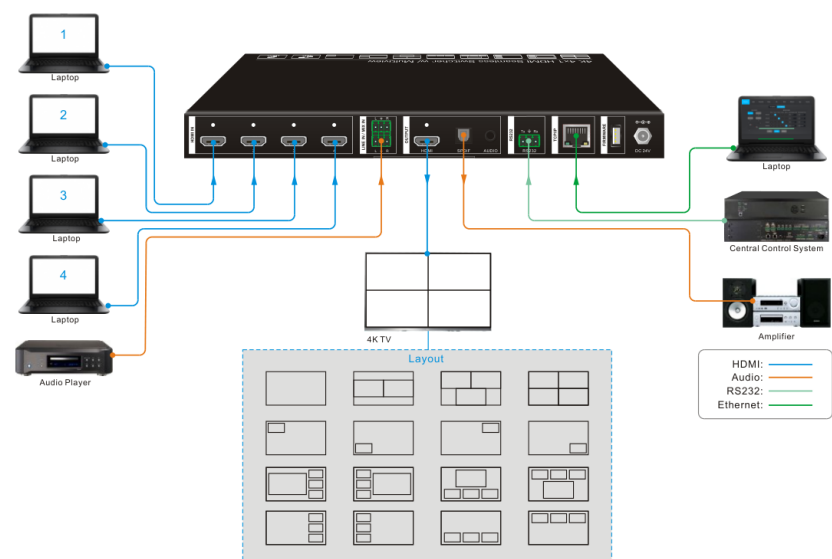
The manual notes that 1080i 60Hz and HDR are not supported. Specifications are based on the supplied MP-SUH41MV user manual (Version MP-SUH41MV_2019V1.0).

Connectivity & System Integration

Typical signal flow, panel connectivity and control interfaces.

System Diagram

4.2 System Diagram



Typical system shown in the supplied manual: four HDMI source devices feed the switcher; audio can be embedded or mixed; HDMI output feeds a 4K display; SPDIF/analog audio can feed an amplifier; RS232 and TCP/IP provide control integration.

Panel Connectivity

123456 POWER LED: The LED illuminates green when it is working, and the LED illuminates red when it is standby. IR LED: Built-in IR sensor, receive IR signal sent from IR remote. FOUR INPUT LEDS/AUDIO SELECTS: Press the buttons to selected corresponding HDMI input, its LED illuminates yellow when there is a video sign it will illuminates blue when the video signal is chosen as input source. AUTO LED: Press the button to Auto Switching or Manual Switching exchange mode, its LED illuminates blue in auto-switching mode, and it will be off when the auto-switching mode.	1234567 ① HDMI IN: Four type-A female HDMI input ports to connect HDMI source devices. ② LINE IN: 3-pin terminal block to connect audio source device like mobile phone or computer to embed in HDMI audio sources. MIX IN: 3-pin terminal block to connect audio source device like mobile phone or computer to mix HDMI audio sources. ③ HDMI OUTPUT: Type-A female HDMI output port to connect display device. SPDIF OUTPUT: Toslink for audio de-embedding from HDMI output.
Front panel Power/IR indicators, four input selections, auto switching, full-screen selection, configuration controls and multi-view selection.	Rear panel 4 × HDMI IN, LINE IN, MIX IN, HDMI OUT, SPDIF OUT, AUDIO OUT, RS232, TCP/IP, firmware USB and DC 24V power.

Package Contents

• MP-SUH41MV 4K 4x1 Seamless Switcher ×1	• IR Remote ×1
• Plastic Cushions ×4	• Mounting Ears ×2 and Mounting Screws ×4

• 3-pin Terminal Blocks ×2	• RS232 Cable (3-pin terminal block to DB9) ×1
• 24V DC 1.25A Power Adapter ×1	• User Manual ×1