

MP-SC-21

2x1 4K Scaler Switcher



PRODUCT OVERVIEW

The MP-SC-21 is a professional 4K scaler switcher designed to select and scale HDMI/VGA video signals to an HDBaseT output. It supports selectable output resolutions from 720p to 4K, HDBaseT transmission, bidirectional PoH, IR/RS232 pass-through, and built-in EDID management.

KEY FEATURES

- 1 HDMI input and 1 VGA input with auxiliary audio input.
- Selectable output resolution up to 3840 × 2160 @ 30Hz.
- HDBaseT transmission: 4K up to 40 m and 1080p up to 70 m.
- Automatic or manual source switching with video sensing.
- Bidirectional IR and RS232 pass-through for remote/control integration.
- Bidirectional PoH for compatible HDBaseT receiver/powered operation.
- Built-in EDID management and HDCP 2.2 compliance on HDMI input.
- Front-panel volume control and output-resolution selection via OSD.
- Supports HDMI/VGA table grommets for source switching and black-screen control.

MP-SC-21 — TECHNICAL SPECIFICATIONS

Category	Specification
Inputs	(1) HDMI; (1) VGA; (1) AUDIO
Input Connectors	(1) Type A female HDMI; (1) female VGA (15-pin); (1) 3.5 mm mini jack
Output	(1) HDBaseT
Output Connector	(1) female RJ45 with LED indicators
Control	(1) IR IN; (1) IR OUT; (1) RS232; (1) GR1; (1) GR2
Control Connectors	(2) 3.5 mm mini jacks; (3) 3-pin Phoenix connectors
HDMI Input Resolution	Up to 4K @ 60Hz 4:2:0; HDMI 1.4; HDCP 2.2 compliant
VGA Input Resolution	Up to 1920 × 1200 @ 60Hz
Output Resolution	3840 × 2160 @ 30Hz; 1920 × 1080 @ 60Hz; 1280 × 720 @ 60Hz
Transmission Distance	4K ≤ 40 m; 1080p ≤ 70 m with high-quality Cat5e/6/7 cable
Bandwidth	10.2 Gbps
EDID	Built-in EDID management
Power Supply	Input: 100–240V AC; Output: 12V DC, 2A
Power Consumption	8 W max.
Operating Temperature	-10°C to +40°C (+14°F to +104°F)
Storage Temperature	-15°C to +55°C (+5°F to +131°F)
Relative Humidity	10%–90%
Dimensions (W × H × D)	195 × 23.6 × 100 mm
Net Weight	303 g

CONTROL & CONNECTION FEATURES

Front Panel — Power LED; AUTO/HDMI/VGA signal LEDs; auto-switching selector; volume up/down; output-resolution OSD button; Micro USB firmware port.

Rear Panel — HDMI IN; VGA IN; AUDIO IN; IR IN/OUT; RS232; GR1/GR2; HDBaseT OUT; DC 12V.

RS232 — Default: 9600 baud, 8 data bits, 1 stop bit, no parity. Supported baud rates: 2400, 4800, 9600, 19200, 38400, 57600, 115200.

Switching — Manual or automatic switching. In auto mode, the unit detects newly connected/removed sources and uses HDMI-to-VGA priority when selecting an available signal.

EDID — Default EDID, display EDID management, and user-defined EDID file upload via U-disk are supported.

Product imagery is taken directly from the supplied MP-SC-21 manual cover. The complete front and rear product views are retained without cropping the device.