

MP-SCUD

18Gbps HDMI 2.0 Full Scaler w/ Audio Breakout

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PRODUCT OVERVIEW

MP-SCUD is a compact HDMI full scaler with audio breakout, delivering full 18Gbps HDMI 2.0 performance with HDCP 2.2 compliance. It supports upscaling to 4K@60Hz 4:4:4, downscaling to 640×480@60Hz, digital and analog audio de-embedding, EDID management and RS-232 control.

KEY FEATURES

- 18Gbps HDMI 2.0, HDCP 1.4/2.2 compliant
- Upscaling up to 4K@60Hz 4:4:4
- Downscaling to 640×480@60Hz
- Audio de-embedding to S/PDIF or analog L/R
- Switchable output resolution via DIP/RS-232
- Advanced EDID management
- CEC passthrough
- No-signal color pattern and freeze-frame functions
- Screen rotation and horizontal/vertical flip via RS-232

TECHNICAL SPECIFICATIONS

Video Input	1× HDMI 2.0 Type-A female port
Input Resolution	Up to 4K@60Hz 4:4:4, HDR
Video Output	1× HDMI 2.0 Type-A female port
Output Resolution	Up to 4K@60Hz RGB 8-bit
HDMI Version	HDMI 2.0
HDCP Version	Up to 2.2
HDMI Audio Signal	LPCM 2.0
Digital Audio Output	1× S/PDIF; LPCM 2.0; 48kHz
Analog Audio Output	1× analog L/R via 3.5mm audio jack; LPCM 2.0
Frequency Response	20Hz–20kHz, ±1dB
Max Output Level	2.0Vrms ±1dB
THD+N	<0.05%, 20Hz–20kHz
SNR	>80dB
Crosstalk Isolation	< -80dB

GENERAL & CONTROL

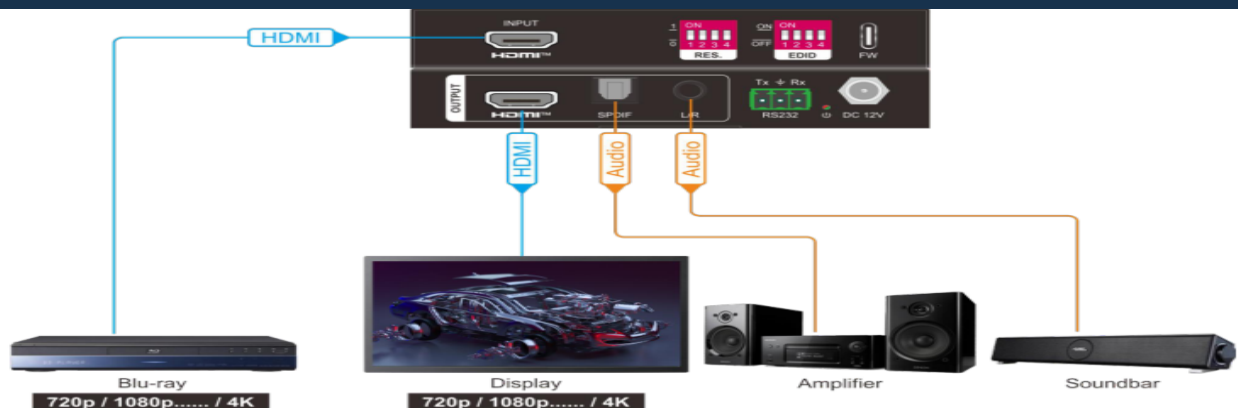
Control	1× 3-pin RS-232 serial port
Bandwidth	18Gbps
Power Supply	AC 100–240V, 50/60Hz input; DC 12V/1A output
Power Consumption	≤4.5W
Operating Temperature	-5°C ~ +55°C
Storage Temperature	-25°C ~ +70°C
Relative Humidity	10% ~ 90%
Dimensions (W×H×D)	110 × 21 × 80mm

Net Weight	215g
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MP-SCUD — SYSTEM & INSTALLATION

Application diagram, panel connectivity and included accessories

SYSTEM CONNECTION DIAGRAM



6

The system connection diagram on page 6 of the manual shows an HDMI source connected to the scaler, with HDMI video output to a display and audio breakout to an amplifier and soundbar.

PANEL CONNECTIVITY

Front Panel	HDMI VIDEO IN; 4-position RES. DIP switch for output resolution; 4-position EDID DIP switch; USB-C FW upgrade port.
Back Panel	HDMI VIDEO OUT; Toslink S/PDIF digital audio output; 3.5mm L/R analog audio output; 3-pin RS-232 terminal; Power LED; DC 12V input.

EDID & OUTPUT RESOLUTION

EDID Presets	Display EDID, 1080p@60, 4K@30, 4K@60 4:2:0, 4K@60 4:4:4 8-bit, and 4K@60 4:4:4 10-bit HDR (including DV), plus user-defined/EDID management modes.
Output Resolutions	Preset selections include 3840×2160@60, 1920×1080@60, 2560×1440@60, 3840×2160@30/50 and multiple PC resolutions. RS-232 provides an extended 39-resolution list down to 640×480@60 and up to 4096×2160@60.

RS-232 CONTROL

Communication	RS-232; 57600 baud default, 8 data bits, 1 stop bit, no parity.
Functions	Power/standby, auto-standby, output resolution, baud rate, mirror/flip/rotate, analog/digital audio mute, color-space conversion, EDID management, no-signal pattern, freeze-frame, status and factory reset.

PACKAGE CONTENTS

Included	1× MP-SCUD; 1× 3-pin to DB9 serial cable; 2× mounting ears + 2 screws; 4× rubber feet; 1× 12V/1A power adapter; 1× user manual
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Manual version: MP-SCUD_2026V1.0 • Specifications reproduced from the supplied user manual.