

MP-DA24UHD-4K

HDMI 2.0 2×4 Splitter with Audio Breakout and 4K to 1080P Down-Scaling



PRODUCT OVERVIEW

The MP-DA24UHD-4K is an HDMI 2.0 2×4 splitter that distributes either one of two HDMI inputs to four HDMI outputs. It supports video up to 4K@60Hz 4:4:4, 1080P 3D and multichannel audio. HDMI digital audio can be de-embedded to stereo analog L/R and Toslink SPDIF outputs for connection to external audio equipment.

KEY FEATURES

- HDMI 2.0 support with video resolution up to 4K@60Hz 4:4:4.
- HDMI inputs support HDCP 2.2; outputs support HDCP 1.4.
- 18Gbps high bandwidth.
- Automatic 4K-to-1080P down-scaling for compatibility with 1080P displays.
- RCA L/R and Toslink connectors for audio de-embedding.
- Advanced EDID management with multiple presets and user-defined EDID.
- Built-in equalizer for signal enhancement.
- CEC control for display power and volume functions.
- Front-panel LEDs for operating status and troubleshooting.
- Firmware upgrade through Micro-USB.

TECHNICAL SPECIFICATIONS

Video & Audio

VIDEO INPUT

Input	2 × HDMI
Input Connector	2 × Female Type-A HDMI
HDMI Input Resolution	Up to 4K×2K@60Hz 4:4:4 8-bit
HDMI Standard	2.0
HDCP Version	2.2
CEC	Supported

VIDEO OUTPUT

Output	4 × HDMI
Output Connector	4 × Female Type-A HDMI
HDMI Output Resolution	Up to 4K×2K@60Hz 4:4:4 8-bit
HDMI Standard	2.0
CEC	Supported

AUDIO

De-embedded Outputs	1 × AUDIO OUT; 1 × SPDIF OUT
Output Connectors	1 × RCA (L/R) jack; 1 × Toslink connector
HDMI Audio Format	LPCM 7.1, Dolby Atmos®, Dolby® TrueHD, Dolby Digital® Plus, DTS:X™, DTS-HD® Master Audio™ pass-through
Stereo Analog L/R	PCM
Toslink Digital Audio	PCM, Dolby Digital, DTS, DTS-HD
Frequency Response	20Hz–20kHz, ±3dB
Max Output Level	2.0Vrms ±0.5dB
THD+N	<0.05% (–80dB), 20Hz–20kHz bandwidth, 1kHz sine at 0dBFS
SNR	>80dB, 20Hz–20kHz bandwidth
Crosstalk Isolation	>70dB
L-R Level Deviation	<0.3dB
Frequency Response Deviation	<±0.5dB, 20Hz–20kHz
Output Load Capability	1kΩ and higher
Stereo Channel Separation	>70dB @ 1kHz

CONTROL & GENERAL SPECIFICATIONS

Control, Physical & Environmental

CONTROL

Control Part	5 × control buttons; 1 × EDID 3-pin DIP switch; 1 × EDID 4-pin DIP switch; 1 × Micro-USB port
Source Selection	Manual source selection or automatic switching mode
CEC Functions	Display ON/OFF; Volume UP/DOWN; mute
Firmware Upgrade	Micro-USB

GENERAL

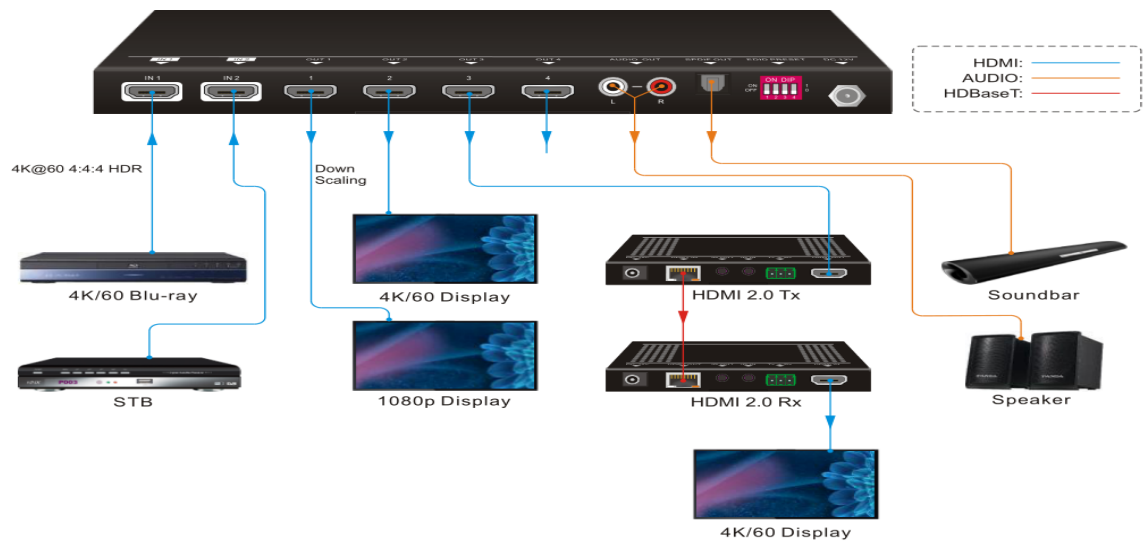
Bandwidth	18Gbps
Operating Temperature	–10°C to +55°C
Storage Temperature	–25°C to +70°C
Relative Humidity	10%–90%
Power Supply	Input: 100–240V AC; Output: 12V DC 1A
Power Consumption	12W (Max)
Dimensions (W×H×D)	232 × 20 × 100mm
Net Weight	Approx. 660g

PANEL DESCRIPTION

Front Panel	Power LED; four output LEDs; source button/LEDs; Display ON/OFF; Volume DOWN/UP; 3-pin EDID DIP switch; Micro-USB FW port
Rear Panel	2 × HDMI inputs; 4 × HDMI outputs; RCA L/R audio output; Toslink SPDIF output; 4-pin EDID DIP switch; DC 12V input

SYSTEM CONNECTION & EDID MANAGEMENT

Application Diagram and Configuration



SYSTEM CONNECTION

The system diagram on page 7 of the supplied manual illustrates two HDMI sources feeding the splitter, four HDMI display/output paths including 4K/60 and 1080P displays, and audio de-embedding to a soundbar and speaker system. It also shows a 4K/60 HDR source and down-scaling to a 1080P display.

EDID MANAGEMENT

L.RES	Reads EDID information from all connected displays and passes the lowest-resolution EDID to the source.
PRESET	Uses the rear 4-pin DIP switch to select predefined EDID values or a customized EDID.
H.RES	Reads EDID information from all connected displays and passes the highest-resolution EDID to the source.

PREDEFINED EDID

0000	EDID from HDMI output port 1
0001	EDID from HDMI output port 2
0010	EDID from HDMI output port 3
0011	EDID from HDMI output port 4
0100	720P / LPCM
0101	1080P / LPCM
0110	1080P / DTS/Dolby
0111	3840×2160@30Hz / LPCM
1000	3840×2160@30Hz / DTS/Dolby
1001	3840×2160@60Hz / LPCM
1010	3840×2160@60Hz / DTS/Dolby

VIDEO DOWNSCALING

4K input can be automatically down-scaled to 1080P. Supported examples include 3840×2160@60/30/24Hz in 4:4:4 and 4:2:0 color spaces. 4:2:2 down-scaling is not supported.

PACKAGE CONTENTS

1 × HDMI 2.0 2×4 Splitter; 2 × mounting ears with 4 screws; 4 × plastic cushions; 1 × 12V DC 1A power adapter; 1 × user manual.

Source: supplied MP-DA24UHD-4K User Manual, Version MP-DA24UHD-4K_2025V1.0.