

MP-DA24UHD

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



High-performance HDMI distribution with audio de-embedding and 4K down-scaling.

Distributes either one of two HDMI inputs to four HDMI outputs, supporting up to 4K@60Hz 4:4:4. Automatically down-scales 4K input to 1080P for compatibility and de-embeds audio to stereo RCA and Toslink SPDIF.

Key Features

2×4 HDMI Distribution	Select either of 2 HDMI sources and distribute to 4 HDMI displays.
4K@60Hz 4:4:4	HDMI 2.0 video support up to 4K×2K@60Hz 4:4:4 8-bit.
4K → 1080P Down-Scaling	Automatically down-scales 4K input to 1080P for compatibility.
Audio Breakout	De-embeds HDMI audio to stereo RCA and Toslink SPDIF.
18 Gbps Bandwidth	High-bandwidth HDMI 2.0 architecture.
Advanced EDID	Multiple preset and user-defined EDID settings.
CEC Control	Power and volume control for CEC-compatible displays.
Micro-USB Upgrade	Firmware upgrade through the Micro-USB port.

Core Specifications

Video Inputs	2 × female Type-A HDMI
HDMI Input Resolution	Up to 4K×2K@60Hz 4:4:4 8-bit
HDMI Input Standard	HDMI 2.0
HDCP Input	HDCP 2.2
CEC	Supported
Video Outputs	4 × female Type-A HDMI
HDMI Output Resolution	Up to 4K×2K@60Hz 4:4:4 8-bit
HDMI Output Standard	HDMI 2.0
HDMI Audio Pass-through	LPCM 7.1, Dolby Atmos®, Dolby TrueHD, Dolby Digital Plus, DTS:X™, DTS-HD® Master Audio™
De-embedded Audio	1 × RCA L/R + 1 × Toslink SPDIF
Analog Audio	PCM
Toslink Audio	PCM, Dolby Digital, DTS, DTS-HD

System Integration & Detailed Specifications

Typical 2-source / 4-display distribution with independent audio breakout.

HDMI Input Resolution	Up to 4Kx2K@60Hz 4:4:4 8bit
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 4Kx2K@60Hz 4:4:4 8bit
HDMI Standard	2.0
CEC	Supported
Audio	
De-embedded Output	(1) AUDIO OUT (1) SPDIF OUT
Output Connector	(1) RCA (L/R) jack (1) Toslink connector
HDMI Audio Format	LPCM 7.1 audio, Dolby Atmos®, Dolby® TrueHD, Dolby Digital® Plus, DTS:X™, and DTS-HD® Master Audio™ pass-through.
Stereo Analog L/R Audio Format	PCM
Toslink Digital Audio Format	PCM, Dolby Digital, DTS, DTS-HD

Audio & Electrical Performance

Frequency Response	20Hz ~ 20KHz, ±3dB
Max Output Level	2.0Vrms ±0.5dB
THD+N	<0.05% (-80dB), 20Hz ~ 20KHz, 1KHz sine
SNR	>80dB, 20Hz ~ 20KHz bandwidth
Crosstalk Isolation	>70dB, 10KHz sine at 0dBFS / maximum before clipping
L-R Level Deviation	<0.3dB at 1KHz
Frequency Response Deviation	<±0.5dB, 20Hz ~ 20KHz
Output Load Capability	1KΩ and higher; supports 10× paralleled 10KΩ loads
Stereo Channel Separation	>70dB @ 1KHz
Control	5 control buttons • 3-pin EDID DIP • 4-pin EDID DIP • Micro-USB
Bandwidth	18Gbps
Operating Temperature	-10°C ~ +55°C
Storage Temperature	-25°C ~ +70°C
Relative Humidity	10% ~ 90%
Power Supply	100~240V AC input; 12V DC 1A output
Power Consumption	12W maximum
Dimensions (W×H×D)	232 × 20 × 100 mm
Net Weight	Approx. 660g

Panel & Control Overview

Front 1	POWER LED	Red when power is applied.
Front 2	OUTPUT LEDs	Green when corresponding HDMI output is active.
Front 3	SOURCE	Manual selection; hold 3s to enable/exit auto switching.
Front 4	DISPLAY ON	CEC control to turn displays on.
Front 5	DISPLAY OFF	CEC control to turn displays off.
Front 6~7	VOLUME - / +	CEC display volume control; volume-down long press mutes.
Front 8	EDID	3-pin DIP switch for EDID setting.
Front 9	FW	Micro-USB firmware upgrade.
Rear 1	INPUTS	Two HDMI source inputs.
Rear 2	OUTPUTS	Four HDMI display outputs.
Rear 3	AUDIO OUT	RCA stereo analog audio output.
Rear 4	SPDIF OUT	Toslink digital audio output.
Rear 5	EDID	4-pin DIP switch for EDID setting.
Rear 6	DC 12V	Power adapter input.

Applications: 4K AV Distribution • Conference & Meeting Rooms • Classrooms • Digital Signage • Multi-display Presentation Systems • Audio Extraction
Source: Supplied MP-DA24UHD User Manual, Version MP-DA24UHD_2019V1.1. Product image is taken from the manual cover; the system diagram is based on the manual's System Connection page.