User Manual

MP-DA-2UHD-H2

4K Splitter 1x2 w/ Down-scale

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Preface

Read this user manual carefully before using the product. Pictures shown in this manual are for reference only. Different models and specifications are subject to real product.

This manual is only for operation instruction, please contact the local distributor for maintenance assistance. The functions described in this version were updated till Oct, 2025. In the constant effort to improve the product, we reserve the right to make functions or parameters changes without notice or obligation. Please refer to the dealers for the latest details.

SAFETY PRECAUTIONS

To ensure the best from the product, please read all instructions carefully before using the device. Save this manual for further reference.

- Unpack the equipment carefully and save the original box and packing material for possible future shipment
- Follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- Do not dismantle the housing or modify the module. It may result in electrical shock or burn.
- Using supplies or parts not meeting the products' specifications may cause damage, deterioration or malfunction.
- Refer all servicing to qualified service personnel.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Do not put any heavy items on the extension cable in case of extrusion.
- Do not remove the housing of the device as opening or removing housing may expose you to dangerous voltage or other hazards.
- Install the device in a place with fine ventilation to avoid damage caused by overheat.
- Keep the module away from liquids.
- Spillage into the housing may result in fire, electrical shock, or equipment damage. If an object or liquid falls or spills on to the housing, unplug the module immediately.
- Do not twist or pull by force ends of the cable. It can cause malfunction.
- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.
- Unplug the power cord when left unused for a long period of time.

Information on disposal for scrapped devices: do not burn or mix with general household waste, please treat them as normal electrical wastes

Table of Contents

1. Product Introduction

Thanks for choosing the HDMI 2.0 1x2 Splitter, which can distribute one HDMI input to two outputs. The splitter supports HDMI video resolution up to 4K@60Hz 4:4:4, 1080P 3D, and multichannel audio formats. Besides passing EDID information from the display, there are multiple built-in EDID settings can be selected by the 4-pin DIP switch on the front panel. Moreover, the splitter supports convenient firmware upgrade through Micro-USB port.

1.1 Features

● Supports HDMI 2.0 and the video resolution up to 4K@60Hz 4:4:4.

● HDMI input supports HDCP 2.2 and the outputs support HDCP Active or HDCP Passive mode.

● Supports video resolution down-scaling, the 4K input can be automatically degraded to 1080P output for compatibility with 1080P display.

● 18Gbps high bandwidth.

● Advanced EDID management: multiple built-in EDID settings can be selected.

● Built-in equalizer for signal enhancement to avoid signal attenuation in transmission.

● Supports CEC pass-through.

● Provides LEDs to indicate the current operating status.

● Firmware upgrade by Micro-USB port.

1.2 Packing List

● 1x HDMI 2.0 1x2 Splitter

● 2x Mounting Ears with 4 Screws

● 4x Plastic Cushions

● 1x Power Adapter (5V DC 1A)

● 1x User Manual

Note: Please contact your dealer immediately if any damage or defect in the components is found.
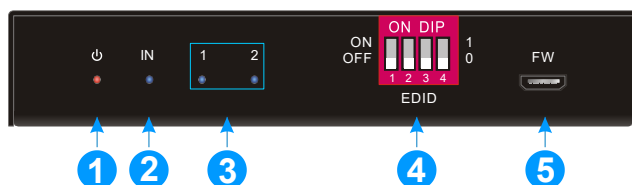
2. Technical Specification

Video Input	
Input	(1) HDMI
Input Connector	(1) Type-A female HDMI
HDMI Input Resolution	Up to 4Kx2K@60Hz 4:4:4 8bit
HDMI Standard	2.0
HDCP Version	2.2, 1.4 compliant
CEC	Supported
Video Output	
Output	(2) HDMI
Output Connector	(2) Type-A female HDMI
HDMI Output Resolution	Up to 4Kx2K@60Hz 4:4:4 8bit
HDMI Standard	2.0
HDCP Version	2.2, 1.4 compliant
CEC	Supported
Control	
Control Part	(1) EDID 4-pin DIP switch, (1) Micro-USB port
General	
Bandwidth	18Gbps
HDMI 2.0 Cable Length	4K@60Hz 4:4:4 ≤ 5m, 4K@60Hz 4:2:0 ≤ 15m, 1080P ≤ 20m
Operation Temperature	-10℃ ~ +55℃
Storage Temperature	-25℃ ~ +70℃
Relative Humility	10%-90%
Power Supply	Input:100V~240V AC; Output: 5V DC 1A
Power Consumption	1.5W (Max)
Dimension (W*H*D)	96.0mm x 17.6mm x 70.4mm
Net Weight	185g

Note: Please adopt high-qualified HDMI cable fully compliant with HDMI 2.0 for reliable transmission and connection.
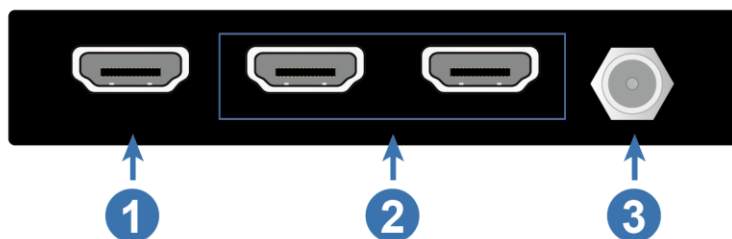
3. Panel Description

3.1 Front Panel

① **POWER LED:** The LED illuminates red when power is applied.

② **INPUT LED:** The LED illuminates blue when there is HDMI input.

③ **OUTPUT LEDs:** The LED illuminates blue when there is HDMI output on the corresponding channel.

④ **EDID:** 4-pin DIP switch for EDID setting and HDCP mode selection. Please refer to the ***5.1 EDID Management*** for more details.

⑤ **FW:** Micro-USB port for firmware upgrade.

3.2 Rear Panel

① **INPUT:** Type-A female HDMI input port to connect a HDMI source.

② **OUTPUTS:** Two type-A female HDMI output ports to connect HDMI displays.

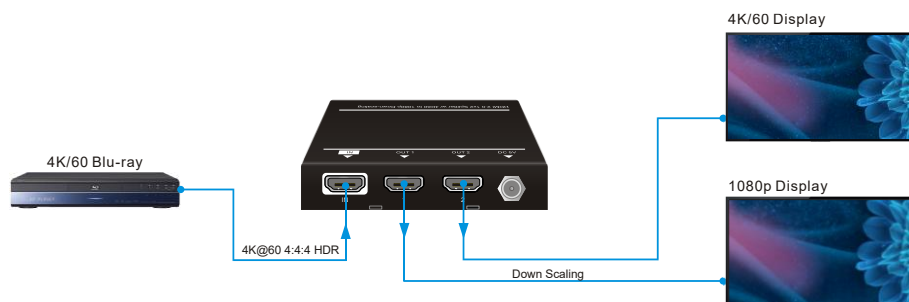③ **DC 5V:** DC barrel port to connect an AC power adapter.

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4. System Connection

4.1 Usage Precaution

● Ensure all components and accessories included before installation.

● System should be installed in a clean environment with proper temperature and humidity.

● All of the power switches, plugs, sockets, and power cords should be insulated and safe.

● All devices should be connected before power on.

4.2 System Diagram

The following diagram illustrates the typical input and output connection of the splitter:

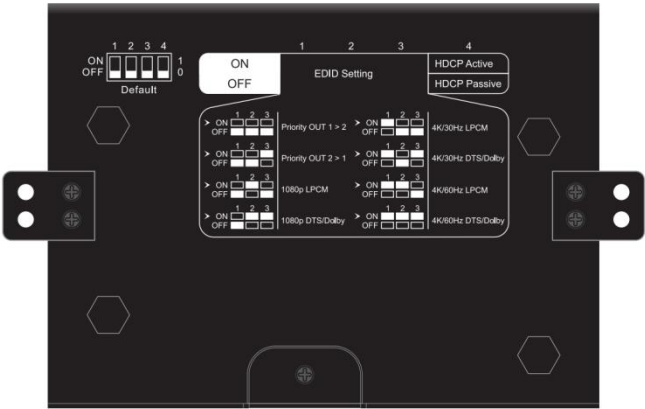
5. DIP Switch Operation

5.1 EDID Management

The Extended Display Identification Data (EDID) is used by the source device to match its video resolution with the connected display. By default, the source device obtains its EDID from the first connected display. Meanwhile, since the displays with different capabilities are connected to the splitter, the DIP switch on the front panel can be used to set the EDID to a fixed value to ensure the compatibility in video resolution.

The switch represents "**0**" when in the lower (**OFF**) position, and it represents "**1**" while putting the switch in the upper (**ON**) position.

Switch 1~3 are used for EDID setting. The DIP switch status and its corresponding setting are shown at the back of the product.

Switch Status	Video Resolution	Audio Format
000	Obtains EDID from the first detected display starting at HDMI output 1>2.	
001	Obtains EDID from the first detected display starting at HDMI output 2>1.	
010	1080P	LPCM
011	1080P	DTS/Dolby
100	3840x2160@30Hz HDR	LPCM
101	3840x2160@30Hz HDR	DTS/Dolby
110	3840x2160@60Hz HDR	LPCM
111	3840x2160@60Hz HDR	DTS/Dolby

5.2 HDCP Mode

Put the switch 4 on the "**ON**" position to select **HDCP Active** mode, or on the "**OFF**" position for **HDCP Passive** mode.

Switch Status	Mode	HDCP
OFF (0)	Passive (Default)	Automatically follows the display's HDCP version.
ON (1)	Active	Automatically removes the HDCP content of HDMI output for broader video solution.

6. Video Resolution Down-scaling

The product supports video resolution down-scaling, the 4K input can be automatically degraded to 1080P output for compatibility with 1080P display, shown in the below chart.

	Input			Output	
#	Resolution	Refresh	Color Space	Downscale	1080P Specs
1	3840x2160	60	4:4:4	Support	1080P@60Hz 4:4:4
2	3840x2160	30	4:4:4	Support	1080P@30Hz 4:4:4
3	3840x2160	24	4:4:4	Support	1080P@24Hz 4:4:4
4	3840x2160	60	4:2:0	Support	1080P@60Hz 4:4:4
5	3840x2160	30	4:2:0	Support	1080P@30Hz 4:4:4
6	3840x2160	24	4:2:0	Support	1080P@24Hz 4:4:4
7	3840x2160	60	4:2:2	Not Support	N/A
8	3840x2160	30	4:2:2	Not Support	N/A
9	3840x2160	24	4:2:2	Not Support	N/A