

User Manual

AR-40-109 1x4 HDMI 2.0 Splitter



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Version: AR-40-109_2020V1.0

Product Introduction

Thanks for selecting the 1x4 HDMI splitter for your A/V solutions. This device lets you simultaneously distribute one HDMI input signal to up to 4 HDMI displays. It supports HDMI video resolutions up to 4K@60Hz 4:4:4, HDR10, Dolby Vision, firmware upgrades, and is HDCP 2.3 compliant. A built-in signal equalizer provides you with the option of using longer range HDMI cables. Other features include EDID pass-through and 4K to 1080p downscaling.

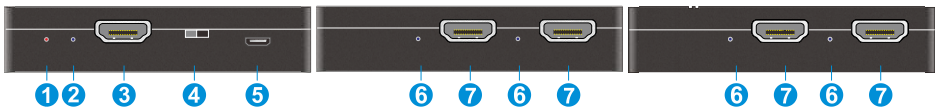
Features

- Supports HDMI video resolutions up to 4K/60Hz 4:4:4, HDR10 and Dolby Vision.
- HDCP 2.3 compliant.
- Built-in signal equalizer allows for the use of longer range HDMI cables.
- EDID copy priority follows Output1>Output2>Output3> Output4.
- Supports 4K to 1080p down-scaling for each independent output, the 4K input can be automatically degraded to 1080p output for compatibility with 1080p displays.
- Supports convenient firmware upgrades.

Packing List

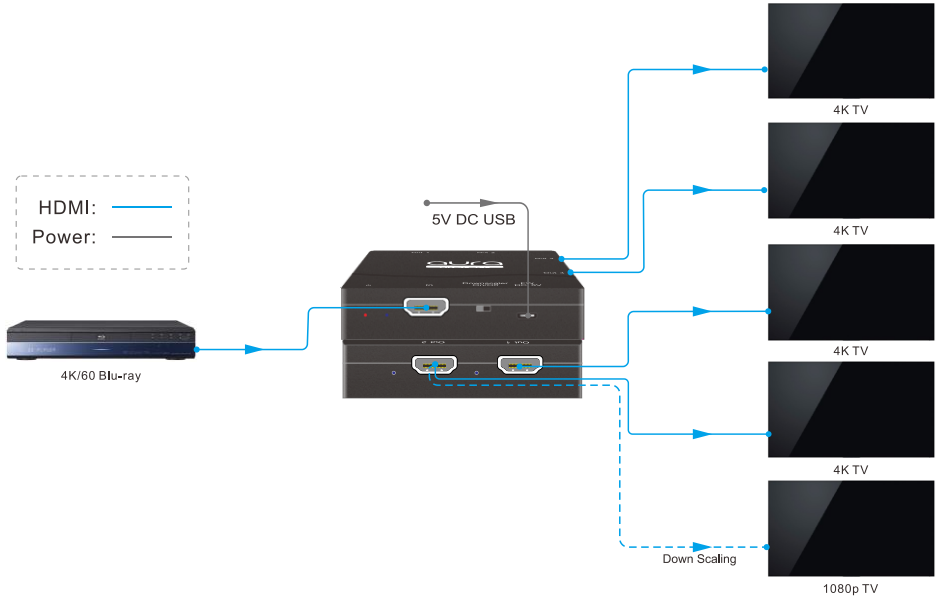
- 1x 1x4 HDMI 2.0 Splitter
- 1x Power Adapter (5V DC 1A)
- 1x User Manual

Panel Description



- ① **POWER LED:** Red light appears when device is powered on.
- ② **HDMI INPUT LED:** Blue light indicates a connected HDMI input device.
- ③ **HDMI INPUT:** Type-A female HDMI input port to connect the HDMI source.
- ④ **Downscale ON/OFF:** Enable/disable down-scaling function.
- ⑤ **FW/DC 5V:** Micro USB port for firmware upgrades or power connection.
- ⑥ **OUTPUT LEDS:** Blue lights indicate connected HDMI outputs.
- ⑦ **HDMI OUTPUTS:** Four type-A female HDMI output ports to connect HDMI displays.

System Connection



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	60Hz	4:4:4	Support	1080p@60Hz 4:4:4
2	3840x2160	30Hz	4:4:4	Support	1080p@30Hz 4:4:4
3	3840x2160	24Hz	4:4:4	Support	1080p@24Hz 4:4:4
4	3840x2160	60Hz	4:2:0	Support	1080p@60Hz 4:4:4
5	3840x2160	30Hz	4:2:0	Support	1080p@30Hz 4:4:4
6	3840x2160	24Hz	4:2:0	Support	1080p@24Hz 4:4:4
7	3840x2160	60Hz	4:2:2	Not Support	N/A
8	3840x2160	30Hz	4:2:2	Not Support	N/A
9	3840x2160	24Hz	4:2:2	Not Support	N/A

Firmware Upgrade

Here are the steps to install firmware upgrades using the Micro-USB port:

- 1) Connect the splitter to the PC with USB cable.
- 2) Power on the splitter, and then the PC will automatically detect a U-disk named of "BOOTDISK".
- 3) Double-click to open the U-disk, a file named of "READY.TXT" will be showed.
- 4) Copy the latest upgrade file (.bin) to the "BOOTDISK" U-disk directly.
- 5) If the filename "READY.TXT" automatically turns to "SUCCESS.TXT", the firmware was upgraded successfully. If the firmware upgrade failed, please check the file (.bin) and then follow the above procedure to operate again.
- 6) Remove the USB cable after firmware upgrade.

Specification

Video Input	
Input	(1) HDMI
Input Connector	(1) Type-A female HDMI
HDMI Input Resolution	Up to 4K@60Hz 4:4:4
HDMI Standard	2.0
HDCP Version	2.3
CEC	Supported
Video Output	
Output	(4) HDMI
Output Connector	(4) Type-A female HDMI
HDMI Output Resolution	Up to 4K@60Hz 4:4:4
CEC	Supported
Control	
Control Part	(1) Micro-USB port
General	
HDMI 2.0 Cable Length	4K@60Hz 4:4:4 ≤ 5m, 4K@60Hz 4:2:0 ≤ 10m, 1080p ≤ 15m
Operation Temperature	-10°C ~ +55°C
Storage Temperature	-25°C ~ +70°C
Relative Humidity	10%-90%
Power Supply	Input:100V~240V AC; Output: 5V DC 1A
Power Consumption	2.6W
Dimension (W*H*D)	85mm x 85mm x 18mm
Net Weight	75g

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