HDMI Splitter

Quick Start Guide

What's included

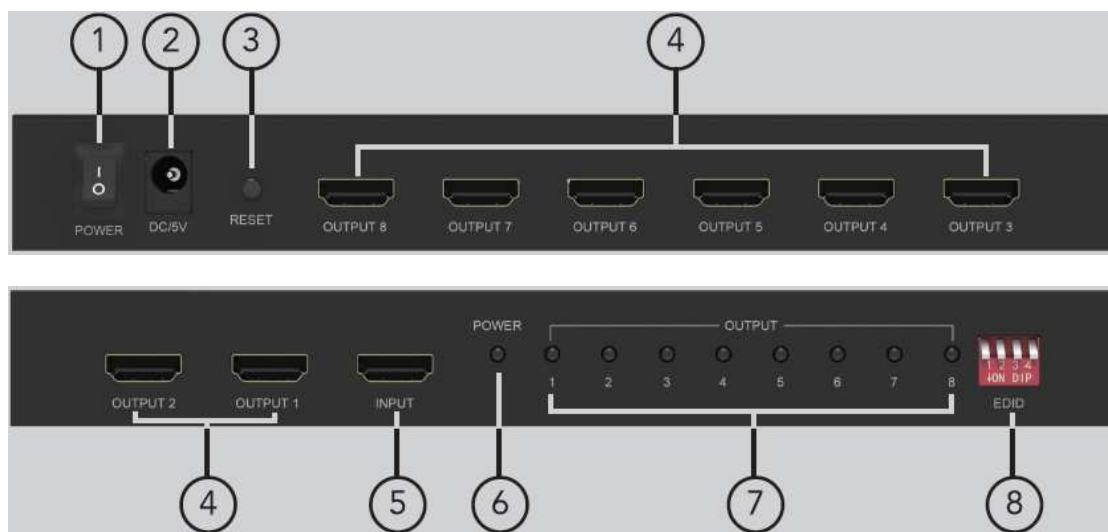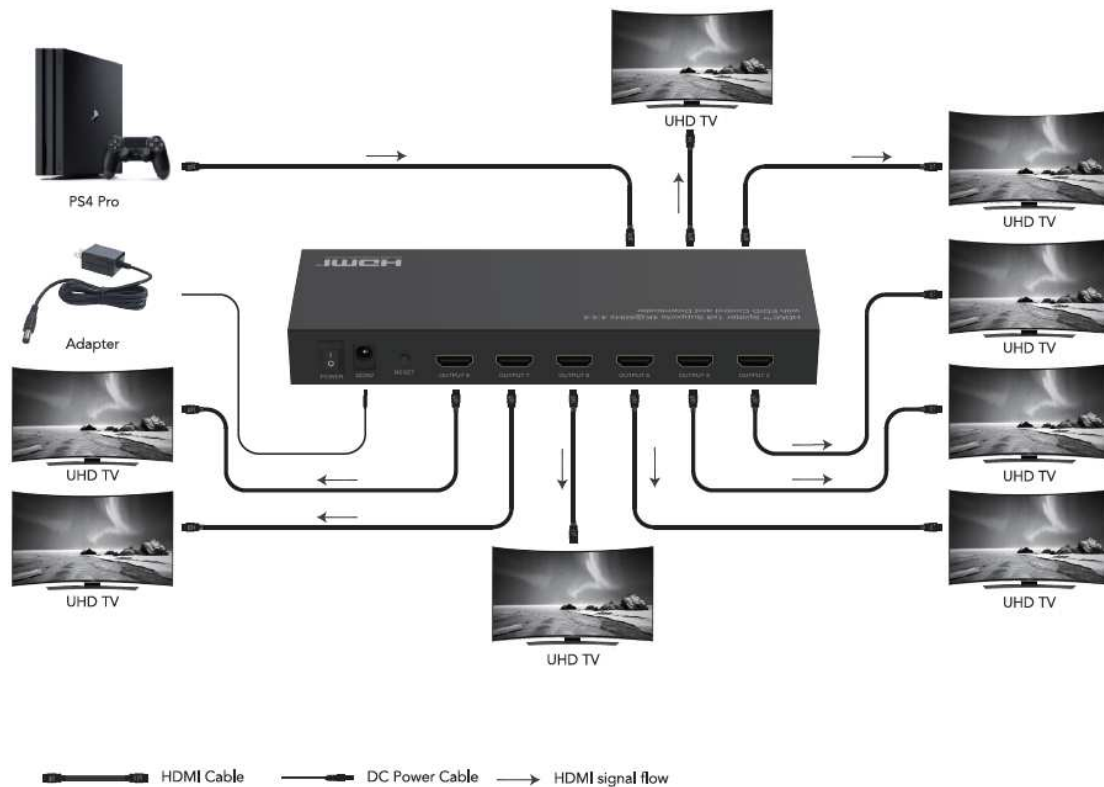Main Unit

Adapter

Ports and Interfaces

1. POWER: Power on/off Button

2. DC/5V: DC 5V Input

3. RESET: Reset to default State

4. Output 1-8: HDMI Output 1-8 port

5. Input: HDMI Input port

6. POWER: Power LED

7. Output 1-8: HDMI Output 1-8 LED Indicator

8. EDID: EDID mode Select DIP-Switch

Connection Diagram

HDMI Cable --- DC Power Cable → HDMI signal flow

Introduction

The HDMI™ 4K splitter 1x8 lets you share eight HDMI™ displays or projectors with an HDMI™-enabled audio / video source device. With support for Ultra HD (4K@60Hz) the HDMI™ splitter ensures astonishing picture quality, four times the resolution of HD 1080p@60 Hz. The 4K splitter is also backward compatible with previous HDMI™ revisions, supporting 1080p / 720p HDMI™ video resolution devices. Even if you don't require 4K video today, the HDMI™ 4K Splitter 1x**8** ensures you'll be ready to take advantage of tomorrow's display technology.

This product can support EDID control (management) function, comes with Multiple kinds of EDID mode, the users can choose according to their own needs.

Features

* Support full 3D video format
* Support high resolution up to 4K@60Hz YUV 4:4:4
* Support HDCP 2.2 and HDCP 1.4
* Support High Dynamic Range (HDR) video
* Support 600MHz/6Gbps per channel (18Gbps all channels) bandwidth
* Support 12bit per channel (36bit all channels) deep color
* Support uncompressed audio such as LPCM
* Support compressed audio such as DTS, Dolby Digital (including DTS-HD Master Audio™ and Dolby TrueHD)
* Support EDID control (management) function

EDID Control Mode Description

Mode	Binary Code	4 3 2 1	EDID Information	↓=LOW ↑=HIGH
Mode1	1111	↑ ↑ ↑ ↑	4Kx2K/60Hz, 24bit, 2D, 2.0CH	
Mode2	1110	↑ ↑ ↑ ↓	1080p/60Hz, 24bit, 3D, 2.0CH	
Mode3	1101	↑ ↑ ↓ ↑	1080p/30Hz, 1080i/60Hz, 720p/60Hz, 24bit, 2D, 2.0CH	
Mode4	1100	↑ ↑ ↓ ↓	1080p/30Hz, 1080i/60Hz, 720p/60Hz, 24bit, 2D, 7.1CH	
Mode5	1011	↑ ↓ ↑ ↑	1080p/60Hz, 36bit, 2D, 2.0CH	
Mode6	1010	↑ ↓ ↑ ↓	1080p/60Hz, 36bit, 2D, 7.1CH	
Mode7	1001	↑ ↓ ↓ ↑	1080p/60Hz, 24bit, 2D, 2.0CH	
Mode8	1000	↑ ↓ ↓ ↓	1080p/60Hz, 24bit, 2D, 7.1CH	
Mode9	0111	↓ ↑ ↑ ↑	Copy Output1	
Mode10	0110	↓ ↑ ↑ ↓	Copy Output2	
Mode11	0101	↓ ↑ ↓ ↑	Copy Output3	
Mode12	0100	↓ ↑ ↓ ↓	Copy Output4	
Mode13	0011	↓ ↓ ↑ ↑	Copy Output5	
Mode14	0010	↓ ↓ ↑ ↓	Copy Output6	
Mode15	0001	↓ ↓ ↓ ↑	Copy Output7	
Mode16	0000	↓ ↓ ↓ ↓	Compose Downscale	

Note:

1. Compose Downscaler: Get lowest audio format of the outputs, and compose downscale of video. Downscale function means the product can downscale the input 4K resolution to 1080p by the FHD (1080p) displays and 4K resolution to the 4K displays simultaneously.

2. If only connect one output display the product only read the display`s EDID directly and send back to the source device without the downscaler function, the downscaler function works with two or above displays connected with the products.

3. The downscaler function only support the 4K@60Hz 4:4:4 and 4:2:0 (HDR 10) signal downscaler to 1080p signal, or there will not have picture output to the FHD TV and normal picture to 4K HDR supported TV simultaneously.

Specification

Input Ports	HDMI x 1
Output Ports	HDMI x 8
Vertical Frequency Range	50/60Hz
Video Amplifier Bandwidth	6.0Gbps/600MHz per channel(18Gbps all channels)
Interlaced(50&60Hz)	480i,576i,1080i
Progressive(50&60Hz)	480p,576p,720p,1080p,4K@24/30Hz,4K@50/60Hz

Limited Warranty	1 Year Parts and Labor
Operating Temperature	0℃ to 70℃
Storage Humidity	5% to 90% RH non-condensation
Power Supply	5V DC
Power Consumption (Max)	5W
Splitter Unit Cert	FCC, CE, RoHS
Power Supply Cert	FCC, CE, RoHS
Power Adapter Standard	US, EU, UK, AU Standard etc.
Dimension(LxWxH)	210x66x26.5mm
Net Weight	350g
Material	Metal
User Manual	English Version

Troubleshooting

Problems	Causes	Solutions
Power light is off and product is not working	Is the power adapter properly connected and the power on/off button is on	Please check if the power adapter is connected properly and switch on the power on/off button
Screen splash	HDMI cable may not be HDMI 2.0 specification or the cable is too long	Please use the standard HDMI 2.0 cable, the input/output cable length does not exceed 5M 4K/60Hz 4:4:4, 4K@30Hz/1080p can reach 10M to 10M
No picture out of some outputs	Maybe these outputs can't support the resolution to show the pictures	Change the EDID mode to the lower resolution mode or select the mode to copy the no picture outputs' TV EDID information to get suitable signal to show
No picture out to a FHD TV when connecting a 4K@60Hz source, and have normal picture to the 4K HDR supported TV at the same time at the downscaler mode	Maybe the downscaler function can`t support the input signal, such as 4K@60Hz 4:2:2 HDR signal(Dolby Vision) or when connect one FHD TV with a fixed 4K@60Hz output device	The downscaler function only support the 4K@60Hz 4:4:4 and 4:2:0(HDR 10) signal downscaler to 1080p signal, or there will not have picture output to the FHD TV, the customer need change a supported downscaler signal input.

HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

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