

CPLUS-V8E1 by 8 6G HDMI Splitter



HDR 4kx2k* HDCP 2.2

Operation Manual



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SAFETY PRECAUTIONS

Please read all instructions before attempting to unpack, install or operate this equipment and before connecting the power supply. Please keep the following in mind as you unpack and install this equipment:

- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Never spill liquid of any kind on or into this product.
- Never push an object of any kind into this product through any openings or empty slots in the unit, as you may damage parts inside the unit.
- Do not attach the power supply cabling to building surfaces.
- Use only the supplied power supply unit (PSU). Do not use the PSU if it is damaged.
- Do not allow anything to rest on the power cabling or allow any weight to be placed upon it or any person walk on it.
- To protect the unit from overheating, do not block any vents or openings in the unit housing that provide ventilation and allow for sufficient space for air to circulate around the unit.

REVISION HISTORY

VERSION NO.	DATE (DD/MM/YY)	SUMMARY OF CHANGE
RDV1	10/03/16	Preliminary release
	31/05/16	Add texts.



1. Introduction	1
2. Applications	1
3. Package Contents	1
4. System Requirements	1
5. Features	2
6. Operation Controls and Functio	ns 3
6.1 Front Panel	3
6.2 Rear Panel	4
7. Connection Diagram	5
8. Specifications	6
8.1 Technical Specifications	6
8.2 Supported Resolutions	7



1. INTRODUCTION

The 1 by 8 HDMI Splitter with HDCP 2.2 is an advanced solution for splitting a single HDMI input to 8 HDMI outputs. It provides high performance audio and video output up to 4K2K@60Hz (YUV444) resolution and is capable of provide high end of audio and video performance. This unit also support HDR (High Dynamic Range Imaging) function, which allows giving more luminance radiance contrasting and colourful pictures for better experience. It supports high resolution digital audio formats such as LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus, Dolby Atmos and DTS-HD Master Audio, audio sampling rate up to 192kHz. The System Reset function allows the unit to set the TV to its default HDMI input automatically.

2. APPLICATIONS

- Lecture Room/Hall Presentation
- Show Room/Demo Room
- Public Commercial Display

3. PACKAGE CONTENTS

- 1 by 8 HDMI splitter
- 5V/3A DC Power Adaptor
- Operation Manual

4. SYSTEM REQUIREMENTS

Input source equipment such as Blu-ray/DVD/PS3 player or Set-Top-Box or any 6G with HDCP2.2 source.

And output with 6G HDMI TV/Display and or audio amplifier with connection cables.

Note: To achieve 6G performance will need to collocation with particular HDMI cable to get the better quality.



5. FEATURES

- HDMI 2.0 with 4Kx2K 6G supported, HDCP 2.2 and DVI compliant (Excludes Deep color and Color space YCbCr 422/444)
- 1 HDMI input and 8 HDMI outputs
- System Reset function supported (CEC active source command)
- Simultaneous displays of a single Ultra High-Definition sources on up to 8 UHDTV displays
- 3D pass-through with compatible 3D source and 3D TV
- Supports UHDTV resolutions up to 4Kx2K:3840x2160@24/25/30/50/60 Hz & 4096x2160 @24/25/30/50/60Hz

Note: When displaying HDMI 4Kx2K signal, equivalent source signal, output display and HDMI cables are required in order to secure the best image display.

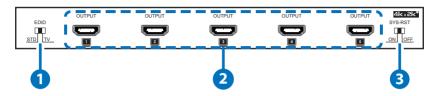
- Supports pass-through of high definition audio: LPCM 2/5.1/7.1CH, Dolby Digital 2~5.1CH, DTS 2~5.1CH, Dolby TrueHD, Dolby Atmos and DTS-HD Master Audio
- HDCP 2.2 and HDCP 1.4 compliant
- HDMI input supports 'Standard' mode and 'TV' mode EDID settings
- HDR Pass Through supported.

Note: To active HDR function, input source and output device should also equip and support HDR function.



6. OPERATION CONTROLS AND FUNCTIONS

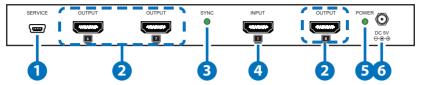
6.1 Front Panel



- 1 EDID: Switch the dip switch to choose EDID mode to Standard (STD) or TV mode. When on TV mode, the unit will automatically detect and store output 1 sink EDID data. Switch to STD mode, the unit will set to standard at 1080p and audio standard at PCM 2 channel.
- 2 OUTPUT 1~5: Connect to 6G HDMI TV / display or HD amplifier for output display.
- 3 SYS-RST: Switch the dip switch from off to on, the unit will trigger TV to its HDMI input1 immediately, when stays in on, the unit will trigger the system in every 8~10 minutes. (*The purpose of this function is to guarantee all outputs are displaying the corresponding image. For example, at the display side user may switch to different HDMI input or select other sources and this reset function will force the display to switch back to its HDMI input1. TV/displays shall support CEC function in order to perform this function successfully.)



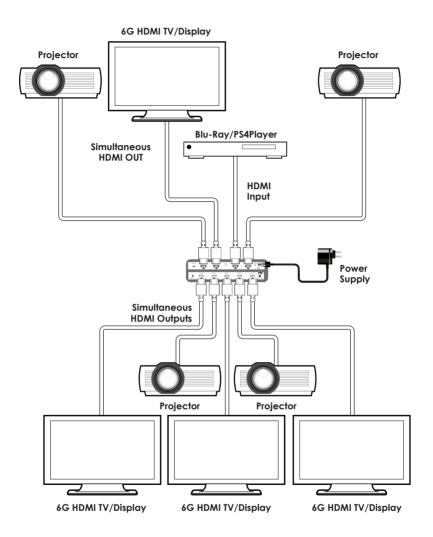
6.2 Rear Panel



- 1 **SERVICE:** This is reserved for firmware update use only.
- 2 OUTPUT 6~8: Connect to HDMI 6G TV/display or HD amplifier for output signal display.
- 3 SYNC: When input detected, the LED will illuminate, the LED will flicker when detected abnormal, for example, when source signal not stabled. When input is not connected, the LED light will be off.
- 4 INPUT: Connect with 6G HDMI source equipment such as Blue-ray/PS4 players and or PC/Laptop devices.
- **5 Power:** This LED will illuminate when the device is connected to an active power supply.
- 6 DC 5V: Connect the adapter included in the package and connect to AC wall outlet for power supply.



7. CONNECTION DIAGRAM





8.1 Technical Specifications

Video Bandwidth 600MHz/18Gbps

Input Ports 1 x HDMI

1 x USB(Service)

Output Ports 8 x HDMI

Supported Resolutions VGA~WUXGA

480i~1080p@24/50/60

4K2K@24/25/30/50/60(YUV444)

HDMI Cable I/O 5m@4K2K/60_YUV444

Distance 10m@1080p/12-bit

15m@1080p/8-bit

Power Supply 5VDC/3A (US/EU standards, CE/FCC/

UL certified)

ESD Protection Human Body model:

± 8kV (air-gap discharge)± 4kV (contact discharge)

Chassis Material Metal
Silkscreen color Black

Dimensions 240mm (W) x 103mm (D) x 25mm (H)

(Jacks excluded)

240mm (W) x 110mm (D) x 30mm (H)

(Jacks included)

Weight 690g

Operating Temperature $0^{\circ}\text{C} \sim 40^{\circ}\text{C} / 32^{\circ}\text{F} \sim 104^{\circ}\text{F}$ Storage temperature $-20^{\circ}\text{C} \sim 60^{\circ}\text{C} / -4^{\circ}\text{F} \sim 140^{\circ}\text{F}$

Relative Humidity 20~90% RH (no condensation)

Power Consumption 9.5w



8.2 Supported Resolutions

DVI and HDMI Supported Resolutions	Input	Output
640x480@60/72/75/85	√	√
800x600@56/60/72/75/85	√	√
1024x768@60/70/75/85	√	√
1280x1024@60	√	√
1366x768@60	√	√
1600x1200@60	√	√
1920x1080@60	√	√
1920x1200@60	√	√
1440x576i@50	√	√
1440x480i@59.94/60	√	√
720x480p@59.94/60	√	√
720x576p@50	$\sqrt{}$	$\sqrt{}$
1280x720p@50/59.94/60	√	√
1920x1080i@50/59.94/60	√	√
1920x1080p@23.97/24/25/29.97/30/50/59.94/60	$\sqrt{}$	$\sqrt{}$
3840x2160@24/25/30/50/60	√	√
4096x2160@24/25/30/50/60	√	√

