CYP

CDPS-UA1H10HS
1 by 10 HDMI Splitter with HDCP 2.2

4k x 2k

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
VR0	18/06/15	Preliminary Release
VS1	22/07/15	Updated text & diagrams

CONTENTS

1. INTRODUCTION

This 1 by 10 HDMI Splitter with HDCP 2.2 is an advanced solution for splitting a single HDMI input to up to ten HDMI outputs. It provides high performance audio and video output through HDMI cables supporting resolutions up to 4K2K@60Hz_YUV420 and is capable of receiving and transmitting up to 9Gbps of bandwidth with no data loss. With support fort the latest features you can be assured of reliable and high quality HDMI distribution.

2. APPLICATIONS

• Split a single HDMI input to ten HDMI displays

• Showroom display

• Educational demo

• Commercial advertisement

3. PACKAGE CONTENTS

• 1 By 10 HDMI Splitter

• 5V/6A Power Adaptor

• Power Cord

• Operational Manual

4. SYSTEM REQUIREMENTS

HDMI source equipment such as DVD/Blu-ray player and output HD display/Monitor with HDMI cables.

5. FEATURES

- HDMI (with 3D & 4K2K support) and HDCP2.2/1.4 compliant
- Supports HDTV resolutions up to 4Kx2K (3840x2160@24/25/30, 3840x2160@50/60 YUV_420 & 4096x2160@24/25/30, 4096x2160@50/60 YUV_420) and PC resolutions up to WUXGA@60Hz(RB)
- Supports HDMI data rates up to 9Gbps and 'Deep Color' up to 1080p/36-bit
- Supports simultaneous output on up to ten HDMI connections
- Supports pass-through of high definition audio formats: LPCM 2/5.1/7.1CH, Dolby Digital 2~5.1CH, DTS Surround, Dolby Digital Plus, Dolby TrueHD, Dolby Atmos and DTS-HD Master Audio
- Supports EDID selection functions
- Supports CEC system reset functions

6. OPERATION CONTROLS AND FUNCTIONS

6.1 Front Panel
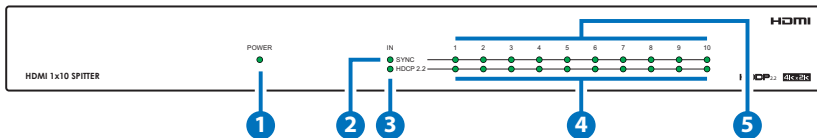
1 POWER LED: This LED will illuminate in green when the device is powered On.

2 SYNC IN LED: This LED will illuminate when the device is connected to an active HDMI source signal.

3 HDCP 2.2 IN LED: This LED will illuminate when the source signal is HDCP 2.2 encrypted.

4 HDCP 2.2 LED 1~10: These LEDs will illuminate when the output HDMI displays are HDCP 2.2 encrypted.

5 SYNC LED 1~10: These LEDs will illuminate when the Hot-Plug Detection (HPD) signal from the display TV/monitors is detected.

![Cyp logo]

6.2 Rear Panel
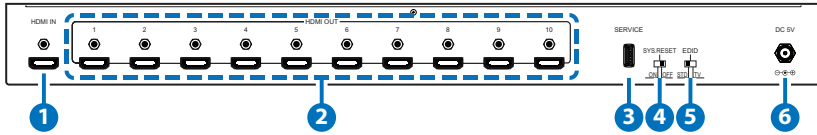
1 HDMI IN: Connect to HDMI equipped source equipment such as a Blu-ray player, games console, Set-top Box or any HDMI equipped source device.

2 HDMI OUT 1~10: Connect to HDMI TVs/displays or AV receiver for output of video and/or audio.

3 SERVICE: This slot is reserved for firmware update use only.

4 SYS. RESET ON/OFF: Set this switch to the ON position will allow the device to reset the output image with the source every 10 minutes.

It will force the connected TV/display to switch to the HDMI port that the device is connected to ensure the correct input is always displayed. The reset will be performed sequentially from 1~10 with 1 minute a port. The default setting is OFF, leave as it is to disable the reset function.

Note: TV/monitor must have CEC compatibility for this feature to function properly.

5 EDID STD/TV: Use this switch to set HDMI EDID's setting.

TV*:* When in 'TV' mode, the unit will read the EDID settings of the display device connected to HDMI OUT 1. If it detects a 4K×2K capable EDID setting it will transmit the signal in that format to all outputs. If no 4K×2K capable EDID is detected then the unit will output the best resolution that all displays can support.
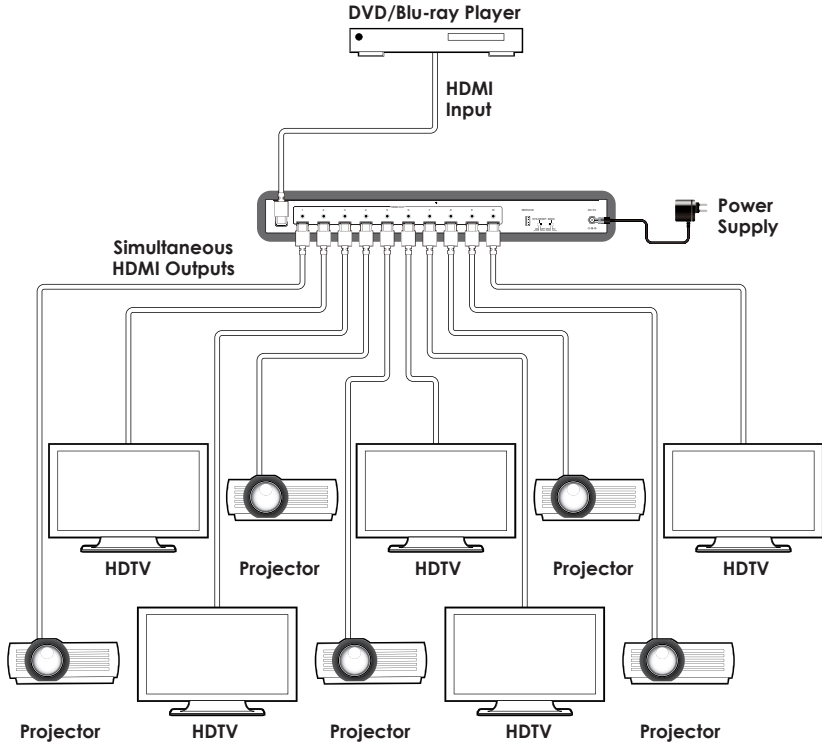
NOTE: When Output 1 is connected to a 4Kx2K display and Outputs 2–4 are connected to non-4K displays no picture may be displayed. To ensure proper display all screens must all be capable of displaying the same resolution.

STD: When in 'STD' mode, the unit will use its own built-in EDID settings. In this mode, the video output will be set to 1080p@60Hz and the audio output at LPCM 2CH Stereo. Use this mode if there are display problems in TV Mode.

6 DC 5V: Connect the adaptor included in the package and connect to AC wall outlet for power supply.

7. CONNECTION DIAGRAM

DVD/Blu-ray Player

HDMI Input

Power Supply

Simultaneous HDMI Outputs

HDTV Projector HDTV Projector HDTV

Projector HDTV Projector HDTV Projector

8. SPECIFICATIONS

8.1 Technical Specifications

Video Bandwidth	300 MHz/9 Gbps
Input Ports	1×HDMI, 1×USB (Service only)
Output ports	10×HDMI
HDMI I/O Cable Length	10m@1080p, 5m@4K2K
Power Supply	5 V/6 A DC (US/EU standards, CE/FCC/UL certified)
ESD Protection	Human Body model:
	±8kV (air-gap discharge)
	±4kV (contact discharge)
Dimensions	436 mm (W)×160 mm (D)×44 mm (H)/Jacks Excluded
	436 mm (W)×165.5 mm (D)×49 mm (H)/Jacks Included
Weight	1856 g
Chassis Material	Metal
Silkscreen Color	Black
Operating Temperature	0 ˚C~40 ˚C / 32 ˚F~104 ˚F
Storage temperature	−20˚C~60˚C / −4 ˚F~140 ˚F
Relative Humidity	20~90 % RH (no condensation)
Power Consumption	16 W

9. ACRONYMS

ACRONYM	COMPLETE TERM
DTS	Digital Theater System
EDID	Extended Display Identification Data
HDCP	High-bandwidth Digital Content Protection
HDMI	High-Definition Multimedia Interface
HDTV	High Definition Television

8.2 Supported Resolutions

Resolution	Input	Output
640×480@60/72/75	✓	✓
720×480@60	✓	✓
720×576p@50	✓	✓
800×600@60/72/75	✓	✓
1024×768@60/70/75	✓	✓
1280×720@50/60	✓	✓
1280×720p@60	✓	✓
1280×768@60	✓	✓
1280×800@60	✓	✓
1280×1024@60	✓	✓
1360×768@60	✓	✓
1600×1200@60	✓	✓
1920×1080i@50/60	✓	✓
1920×1080i@60	✓	✓
1920×1080p@24/25/30/50/60	✓	✓
1920×1200@60 (RB)	✓	✓
3840×2160@24/25/30	✓	✓
3840×2160@50/60 (YUV420)	✓	✓
4096×2160@24/25/30	✓	✓
4096×2160@50/60 (YUV420)	✓	✓