

CLUX-18EU

1 by 8 HDMI v1.3 Splitter

Operation Manual

Draft Manual



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• **Safety Precautions**

Please read all instructions before attempting to unpack or 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 module openings or empty slots, as you may damage parts.
- Do not attach the power supply cabling to building surfaces.
- Do not allow anything to rest on the power cabling or allow it to be abused by persons walking on it.
- To protect the equipment from overheating, do not block the slots and openings in the module housing that provide ventilation.

• **Revision History**

<u>Version No</u>	<u>Date</u>	<u>Summary of Change</u>
VR1	20101216	Preliminary Release

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1. Introduction

With eight HDMI outputs and capable of distributing 3D content the HDMI v1.3 1 by 8 splitter is a forward looking device that helps you handle futuristic technology today. Compatible with HDMI v1.3 which defines the ability to transfer 3D content, Deep Color (10-bit and 12-bit) video and new lossless compressed (Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio) digital audio, this device doesn't merely handle splitting and distributing, far from it, it also amplifies and equalizes your signals to provide high performance I/O of audio and video. Further, this device allows users to cascade up to 10 layers for extend and distribute the 1080p/8 bit signal without loss or delay.

2. Applications

- Display HDMI and 3D content
- Simultaneously display content on multiple screens
- Retail store/Conference/Advertising display

3. Package Contents

- 1 by 8 HDMI v1.3 Splitter
- 5V DC power supply adaptor
- Operation Manual

4. System Requirements

Input source with HDMI/DVI connector and output up to 8 HDMI displays.

5. Features

- HDMI v1.3, HDCP1.1 and DVI1.0 compliant receiver
- Deep color video up to 12bits, 1080p@24/60Hz
- Allows one HDMI source to simultaneously connect with up to eight HDMI displays
- HDCP keysets allows each output to work independently when connected to an HDMI display
- Transmits an HDMI source to eight outputs without any signal loss
- Supports DVI source/display by using an HDMI/DVI adaptor cable
- Support LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus and DTS-HD master audio transmission (32 ~ 192KHz sampling rate)
- Supports a wide range of PC and HDTV resolutions from VGA to WUGA and 480i to 1080p
- HDMI cable distance testing showed that with 1080p/8bits resolution, the input source can be 15 meters away and with 1080p/12bits it can be 10 meters away
- HDMI cable distance testing showed that with 1080p/8bits resolution, the output source can be 15 meters away, and with 1080p/12bits it can be 15 meters away

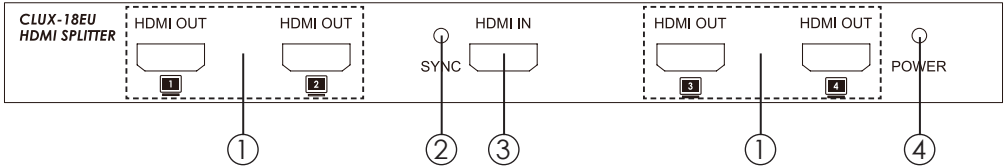
6. Specifications

TMSD Clock Frequency	225MHz
Input Port	1 x HDMI
Output port	8 x HDMI
ESD Protection	Human Body model: $\pm 8\text{kV}$ (air-gap discharge) $\pm 4\text{kV}$ (contact discharge)
Dimensions (mm)	240(W) x 103(D) x 25(H)
Weight(g)	225
Chassis Material	Metal
Silkscreen Color	Black
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 (W)	10W(Max)

7. Operation Controls and Functions

The following sections describe the hardware components of the unit.

7.1 Front Panel

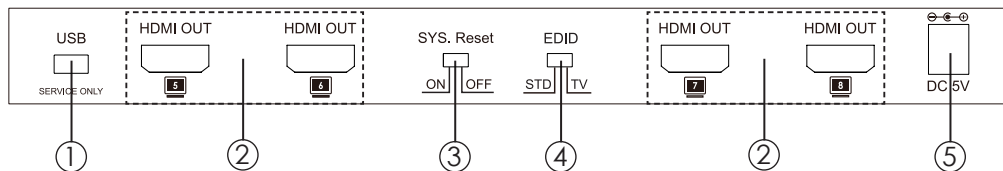


- ①. HDMI OUT 1/2/3/4: Using HDMI cables connect these slots to displays in order to show HDMI content.

Note: A.This system was tested with 24AWG cables if using cables of another type, the performance of this system may be different.
B. Cable distance tested with a PS3 & 40" Samsung LED UA40B700 12-bits LCD TV.
C.Figures provided in this manual are for reference only, actual figures may depend on the source and display used along with the cables specifications.

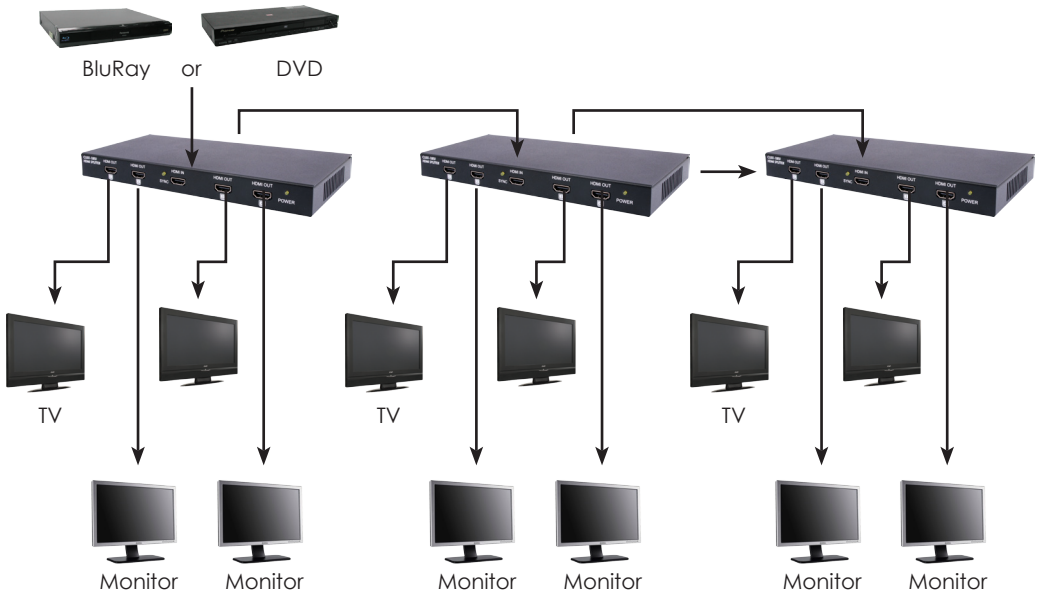
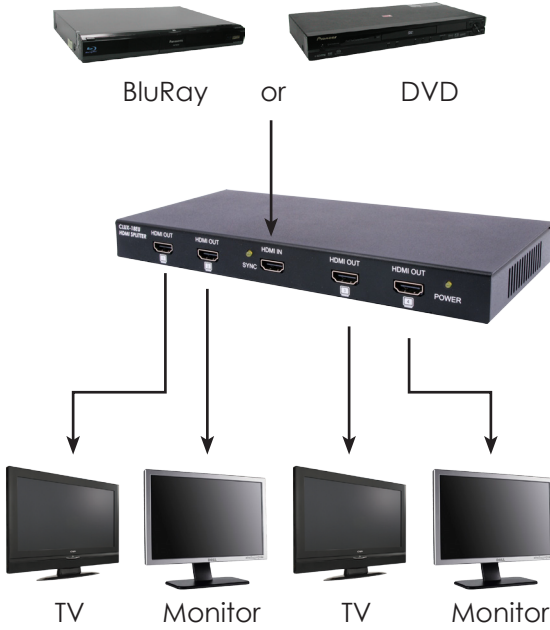
- ②. SYNC: This LED will turn yellow when the detected the input signals.
- ③. HDMI IN: This slot connects with source devices such as DVD/Blu-Ray players in order to receive on HDMI signal.
- ④. Power LED: The green LED will illuminate when the power is plug with the AC wall outlet.

7.2 Rear Panel



- ①. USB: For software update only.
- ②. HDMI OUT 5/6/7/8: Using HDMI cables connect these slots to displays in order to show HDMI content.
- ③. SYS Reset ON/OFF: This switch allows the user to perform a system reset. The default setting is OFF, leave as is when in normal use. By switching ON, the unit will perform a reset every 8~10 minutes, in order to perform this function the displays must have CEC support. When performed successfully, the system will automatically switch the displays to HDMI 1 input. The system reset will not perform on those displays that do not have a CEC function.
- ④. EDID Control switch: This EDID control switch is determined if you are going to use the EDID from the display attached to output 1 or use an onboard EDID. When select to TV, the EDID will attach to output 1. When selected to STD, the EDID will become onboard EDID and the factory default setting is in TV mode.
- ⑤. Power: Plug the DC 5V power supply into the splitter and connect the adaptor to AC wall outlet.

8. Connection and Installation



Acronyms



Acronym	Complete Term
CAT5/6	Category 5 / 6 Cable
ESD	Electrostatic Discharge
LED	Light-emitting Diode
RJ45	Registered Jack 45
USB	Universal Serial Bus



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