1 by 4 CAT6 to HDMI V1.3 Splitter - ID# 761



Operation Manual



Introduction

The 1 by 4 CAT6 to HDMI 1.3 splitter when used with HDMI to CAT6 transmitter it will allows user to distribute a HDMI source to 3 HDMI displays located 40 meters away through two CAT6 cables. This solution provides a direct input of one CAT6 to a looped output of CAT6 and 3 HDMI outputs – a smart way to link and display a single source to 3 or more screens screens simultaneously. Alternatively, the CAT6 output can also be treated as an extender to connect to another CAT6 splitter or cascade with other unit in multiple layers. This unit allows user to transmit HDMI signal via CAT6 without compression over long distance. The CAT6 to HDMI splitter also incorporates functions like EDID, System Reset, Deep color and IR systems.

Application

- One CAT6 extension source with multi HDMI displays and one CAT6 loop through output
- Home entertainment integration
- Multi-task project presentation
- Showroom Display
- Advertising display control
- System installation control

System Requirements

- Need to work with a HDMI to CAT6 transmitter on the other end.
- Output display device(s) with HDMI cables and or CAT6 to HDMI receiver with HDMI cable to display.

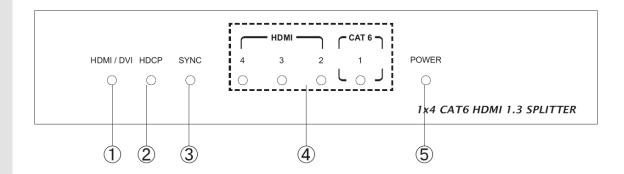
Features

- HDMI 1.3, HDCP1.1 and DVI1.0 compliant
- Deep color video up to 12bit, 1080p@60Hz
- One CAT6 source connection to one CAT6 and three HDMI allowing users to link up to three displays simultaneously
- HDCP keysets allows each output to work independently when connecting to a HDMI display
- Supports DVI source and DVI display by using HDMI to/from DVI adaptor cable
- Supports LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio transmission (32-192kHz Fs sample rate)
- Supports a wide range of PC and HDTV resolutions from VGA to UXGA and 480i to 1080p.
- Selects EDID from TV mode or STD mode (this splitter)
- Deep color setting of 8 bit or 12 bit
- IR remote control
- System Reset function
- CEC Bypass



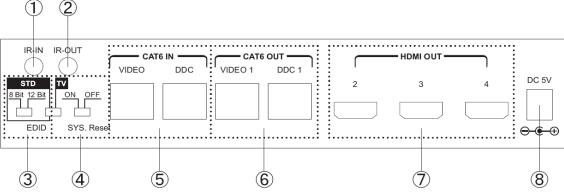
Operating Functions and Controls

Front Panel



- ① **HDMI/DVI indicators:** When LED illuminate this means the input source is with HDMI content and when the input source is DVI the LED will not illuminate.
- ② **HDCP indicators:** When the input source is with the HDCP protection the HDCP LED will illuminate.
- 3 **SYNC Indicator:** The LED will illuminate when the input source's signal is detected by the device.
- 4 Output LED 1~4: The LED will illuminate when the output display is connected with power on.
- (5) Power LED: The LED will illuminate when power is on.

Rear Panel



- ① IR IN: This slot is to connect with the IR receiver cable included in the package and use existing source's remote controls to control the source equipments.
- ② **IR OUT:** This slot is to connect with the IR blaster cable included in the package and place it in front of the sources for infrared signal sending.
- **3 EDID Control Switcher:** Switch the EDID between STD & TV. Switch to STD to use built-in EDID or switch to TV to use TV's EDID. Default factory setting is on TV, leave as it is when picture is displayed properly.

Note:

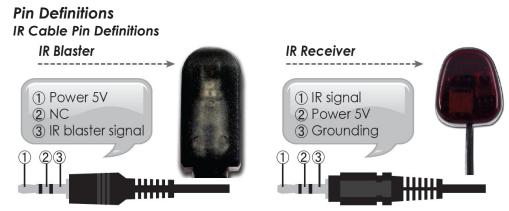
1. When EDID switch to TV, the unit will detect the first HDMI output sink's EDID and record in the unit. If the first detected output sink is DVI it will pass to next until the first HDMI is detected. The detection priority is HDMI $v1.3 > HDMI \ v1.2 > DVI$.



- **2.** When EDID switch to STD the unit will use built-in EDID which supports: Video \rightarrow 1080p 8-bit or 12-bit (max) Audio \rightarrow PCM 2CH
- 3. The EDID selection will only activate when the unit is re-plug and power on.
- **System Reset:** Switch to "ON", the system will send the internal CEC to the display within 8~10 minutes to force all the displays to switch to HDMI 1 input port. Meanwhile, the source's CEC will not functional to the system. When switch to "OFF", the system reset function will be terminate. Factory default is on "OFF".
- **Solution** Video/DDC input: These slots are for connecting the Video/DDC input to the Video/DDC output of the transmitter unit with CAT6 cables.
- **© Video/DDC output:** These slots are for connecting the Video/DDC output to the Video/DDC input of the receiver unit with CAT6 cables.

Note:

- **A.** Cable tested with CAT-6E / 23AWG / Solid and therefore, cable with different specification may result in different distance.
- **B.** Cable distance tested with equipment PS3 40G and 37" SamSung 12 bit LCD TV.
- **C.** Figures provided in this manual are reference figures only, actual figures may depend on source and display use with cable specification.
- ① HDMI Outputs 2~4: These slots allow you connect to the HDMI displays with
- HDMI cables. When more than one output are connected, the HDMI outputs play identical video signal simultaneously.
- **® Power:** This slot is to plug the 5VDC power supply included in the package into the unit and connect the adaptor to an AC wall outlet.



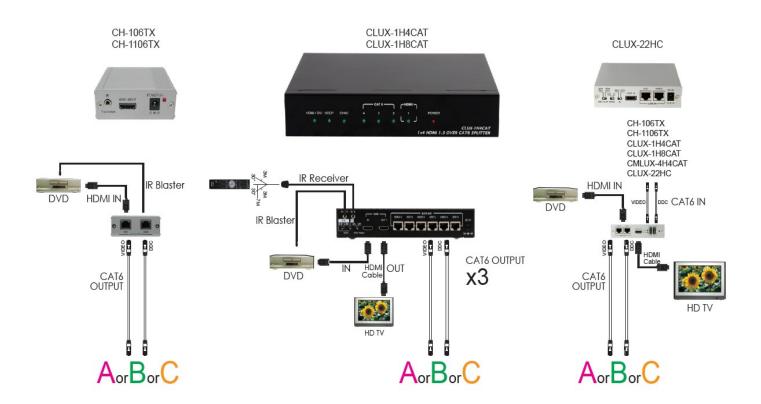
Note: The frequency on both IR Receiver & Blaster can support 20~60KHz.



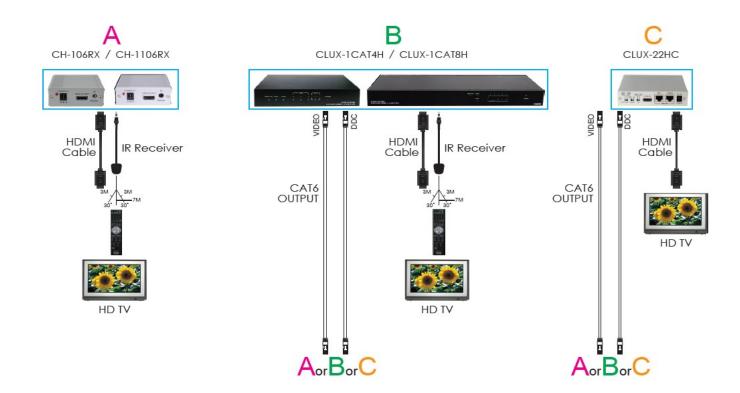
RJ-45 Pin Definitions

Pin	Video	DDC
1	TX2+	DDC Bus Clock
2	TX2-	NC
3	TX1+	DDC Bus Data
4	TXO+	Power 5V
5	TXO-	GND
6	TX1-	IR IN
7	TXC+	HPD
8	TXC-	EC

Connection and Installation







Specifications

Frequency Bandwidth 2.25Gbps (single link)

Input Ports 1 x CAT6 input Video/1 x CAT6 input DDC
Output Ports 1 x CAT6 output Video/1 x CAT6 output DDC

3 x HDMI female ports (Type A connector)

EDID STD / TV

HDMI Audio Output PCM2, 5.1, 7.1, Dolby 5.1, DTS 5.1, DD+, D-TrueHD,

DTS-HD

HDMI Cable Out 1080p 8-bit (15M), 12-bit (10M)
CAT6 Cable In 1080p 8-bit (45M), 12-bit (15M)
CAT6 Cable Out 1080p 8-bit (40M), 12-bit (10M)

HDMI Resolution 480i, ~ 1080p 50/60, 1080p 24, VGA ~ SXGA

IR Frequency 20 ~ 60KHz

ESD Protection Human body model:

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

Power Supply 5VDC/3.2A (US/EU standards, CE/FCC/UL certified)

Dimensions (mm) 215(W) x133(D) x 43(H)

Weight(g) 900
Chassis Material Metal
Silkscreen Color Black
Power Consumption 12W

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

