CYP

CH-1107TX
HDMI to Single CAT6 Transmitter

HDMI INPUT   DC 5V

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 to 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	24/11/10	Preliminary Release
VS1	24/02/14	Updated format/diagrams

CONTENTS

1. INTRODUCTION

The HDMI to Single CAT6 transmitter can send High Definition video (1080p/Deep Color) and audio (Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio) over a single run of CAT6 cable to a compatible receiver unit.

2. APPLICATIONS

• Distribute HDMI signals over long distances

• Showroom display

• Lecture room display

3. PACKAGE CONTENTS

• HDMI to Single CAT6 Transmitter

• 5V/1A DC Power Supply Adaptor

• Operation Manual

4. SYSTEM REQUIREMENTS

HDMI source device such as a DVD/Blu-ray player and an HDMI display with HDMI connection cables and industry standard CAT6 cable and a compatible receiver.
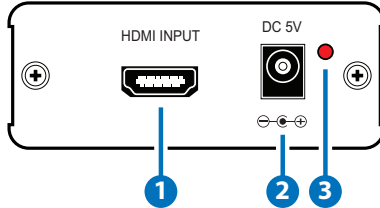
5. FEATURES

- HDMI, HDCP 1.1 and DVI 1.1 compliant
- Supports digital video formats in 'Deep Color' mode at up to 36-bit (12-bit/color)
- Supports lossless compressed Digital Audio formats (Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio)
- Uses a single CAT6 cable for Data/DDC transmission
- Equalizes and recovers incoming TMDS data before re-transmitting it in optimal quality regardless of the incoming signal quality
- Supports HDMI cable distances of up to 20 meters at 1080p/8-bit and 12-bit resolutions
- Supports CAT6 cable distances of up to 45 meters at 1080p/8-bit resolution and 10 meters at 1080p/12-bit resolution
- Supports x.v.YCC

Note:

1. *This system was tested with CAT6/23AWG/UTP/568B cable, results may vary with cables of another specifcation.*
2. *Cable distance tested with Sony Playstation 3 (120 GB model) and 40" Samsung 12-bit LCD TV.*
3. *The figures provided in this manual are for reference only; actual performance may depend on the source and display used as well as the cable specification.*
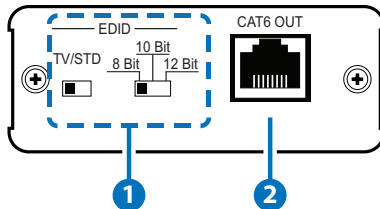
6. OPERATION CONTROLS AND FUNCTIONS

6.1 Front Panel

1 HDMI IN: Connect to the HDMI or DVI output (with a DVI to HDMI adaptor)of a source device such as a DVD/Blu-ray player or a Set-top Box with an HDMI cable or cascade to a compatible Receiver unit (see Section 8.2) to extend the transmission distance.

2 DC 5V: Connect the 5V DC power supply to the unit and plug the adaptor into an AC outlet.
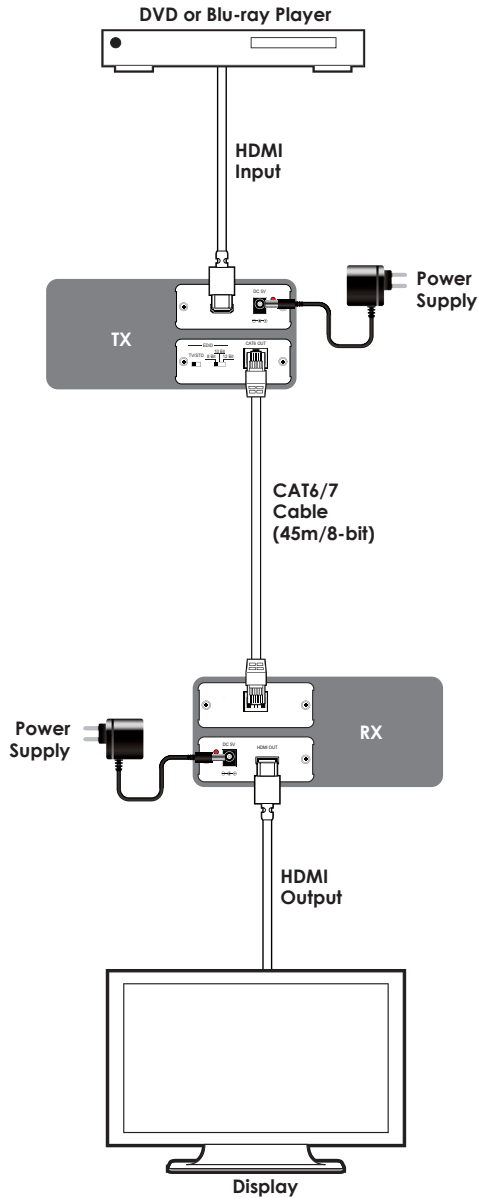
6.2 Rear Panel

1 EDID Switch: Selects between 'STD' and 'TV' EDID settings. Switch to 'STD' to use the transmitter's built-in EDID settings or to 'TV' to use the TV's EDID settings. The default factory setting is TV, keep in this setting when the display is functioning normally. When switched to 'STD' the unit will use its built-in EDID settings which support 1080p@8-bit, 10-bit or 12-bit Video and PCM 2CH Audio.

Note: Power the unit OFF then ON for the EDID selection to be activated.

2 CAT6 OUT: Connect to the CAT6 input of a compatible Single CAT6 to HDMI Receiver unit (see Section 8.2) attached to an display.

7. CONNECTION DIAGRAM

DVD or Blu-ray Player

HDMI Input

TX

Power Supply

CAT6/7 Cable (45m/8-bit)

Power Supply

RX

HDMI Output

Display

8. SPECIFICATIONS

8.1 Technical Specifications

Video Bandwidth	2.25 MHz/6.75 Gbps
Input Port	1×HDMI (Female connector)
Output Port	1×RJ45
HDMI Cable Distance	20m@1080p/8-bit or 12-bit
CAT6 Cable Distance	45m@1080p/8-bit or 10m@1080p/12-bit
Power Supply	5V/1A DC (US/EU standards, CE/FCC/UL certified)
ESD Protection	Human Body Model: ± 8kV (air-gap discharge) ± 4kV (contact discharge)
Dimensions	78.5 mm (W)×102 mm (D)×30 mm (H)
Weight	182 g
Chassis Material	Aluminum
Silkscreen Color	Silver
Power Consumption	3.5 W
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 (non-condensing)

8.2 Compatible Products (Single CAT6)

The models listed below are compatible with each other:

- CLUX-8MCAT
- CH-107TX
- CH-107RXN
- CH-1107TX
- CH-1107EX

9. ACRONYMS

ACRONYM	COMPLETE TERM
CAT5e	Category 5 Cable
CAT6	Category 6 Cable
DVI	Digital Visual Interface
HDCP	High-bandwidth Digital Content Protection
HDMI	High Definition Multimedia Interface