



PU-107

Pure Digital V1.3 HDMI over Single CAT6 Transmitter & Receiver Set

OPERATION MANUAL



• **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**

<i>Version No</i>	<i>Date</i>	<i>Summary of Change</i>
<i>V1</i>	<i>20100317</i>	<i>Preliminary release</i>

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1. Introduction

The HDMI 1.3 transmitter and receiver over ONE CAT 6 is an extend tool for your long distance HDMI display. Instead of using expansive HDMI cable, your existing CAT 6 cables/sockets also can perform the same functions like transfer Deep Color (12 bits/color) video and new lossless compressed (Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio) Digital audio, with a bandwidth up to 225MHz. The HDMI 1.3 Transmitter and receiver, over ONE CAT6 extender is your substantial HDMI extender tool.

2. Applications

- Long distance HDMI signal distribution
- Showroom display
- Hypermarket display
- Lecture room display

3. Package Contents

- HDMI v1.3 Transmitter x 1
- HDMI v1.3 Receiver x 1
- 5V DC Power Supply adaptor x 2
- Operation Manual x 1

4. System Requirements

Input HDMI source equipment and output HDMI display with connection cables and one CAT6 cable.

5. Features

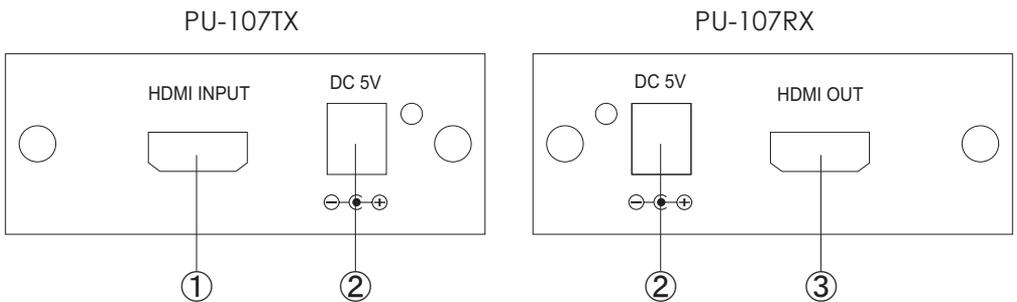
- Compliant with HDMI 1.3, HDCP 1.1 and DVI1.1 standards.
- Supports digital video formats in Deep Color Mode at up to 36 bits (12bits/color) and new lossless compressed (Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio) Digital audio .
- Supports one CAT-6 cable for data/DDC transmission.
- Supports equalize and recover incoming TMDS data before re-transmitting them with optimal quality regardless of the incoming signal quality.
- Supports high definition resolution, the cable distance test with 1080p/12bits resolution the HDMI Input/Output source can run up to 10/10 meters. If 1080p/12bits resolution the CAT6 Input/Output source can run up to 45/15 meters.
- Support CEC bypass.
- Support xvYCC

6. Specifications

Frequency Bandwidth	2.25Gbps (single link)
Transmitter	
Input/Output Ports	1 x HDMI Female port/1 x CAT6
Receiver	
Output/Input Ports	1 x HDMI Female port/1 x CAT6
Power Supply	5V/ 1A DC (US/EU standards, CE/FCC/UL certified)
ESD Protection	Human Body Model: $\pm 8\text{kV}$ (air-gap discharge) $\pm 4\text{kV}$ (contact discharge)
Dimensions (mm)	78.5 (W) x 72 (D) x 30 (H) / each
Weight(g)	90 / each
Chassis Material	Aluminum
Silkscreen Color	Black
Power Consumption	TX: 3.5w ; RX: 2w
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)

7. Operation Controls and Functions

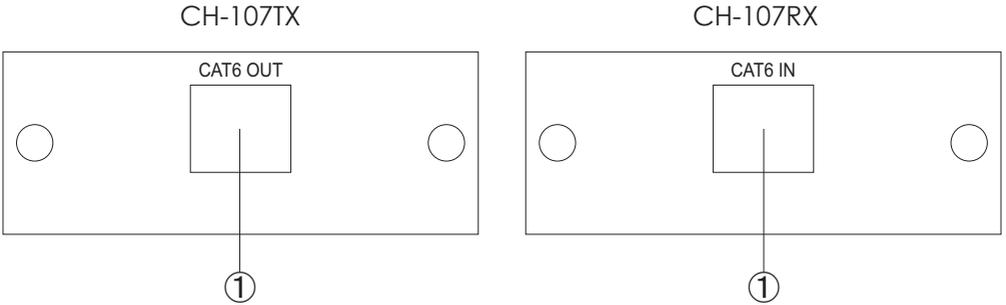
7.1 Front Panel



- ① HDMI INPUT: This slot is where you connect the HDMI or DVI output port of your source device such as a DVD player or Set-top-box with an HDMI cable or connect the unit to another unit from the same product family to extend your transmission over long distances.
- ② DC 5V: This slot is where you plug the 5V DC power supply into the unit and connect the adaptor to an AC outlet.

- ③ HDMI OUTPUT: This slot is where you connect the HDMI or DVI input port of your displayer such as HD TV or HD monitor or cascade to another transmitter of the same family device to extend signal distance for display.

7.2 Rear Panel

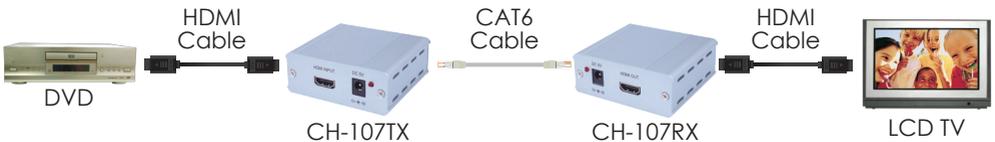


- ① CAT6 OUT/IN: Connect the CAT6 output of transmitter with CAT6 cable to the CAT6 input of the receiver.

Note:

- A. Cable tested with CAT-6E/23AWG/Solid, using cables of another type may result in a different operating distance.
- B. Equipment used in cable distance testing included: PS3 20G, 37" Philips 8 bit LCD TV and 37" Samsung 12 bit LCD TV.
- C. Figures provided in this manual are for reference only, actual performance may depend on the source and display used along with the type of cable.

8. Connection and Installation





Notes:



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