

HDMI Over One CAT6 Transmitter and Receiver - ID# 865



Operation Manual

Introduction

The HDMI™ Transmitter and Receiver over One CAT6 is an intelligent device for extending your HDMI signal over long distances to a compatible display. Instead of buying expensive, long distance HDMI cables, your existing CAT6 cables can be utilized to perform advanced functions, like transferring Deep Color (12 bits/color) video and high Definition (Dolby TrueHD, Dolby Digital Plus and DTS HD Master Audio) digital audio, with a bandwidth up to 2.25Gbps per channel. Powered by its USB connection which also makes it easier to install, this device is a fine addition to existing media setups.

Applications

- HDMI signal extension over CAT6
- HDMI signal transmitting over long distance

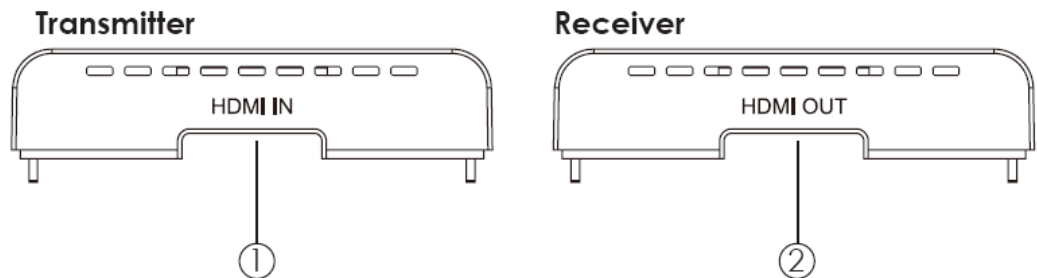
Features

- Supports digital video formats up to 36 bits
- Support high definition input/output up to WUXGA/1080p
- Uses one CAT6 cable for data/DDC transmission
- Equalizes and recovers incoming TMDS data before re-transmitting it in optimal quality
- HDMI Cable testing showed that with WUXGA/1080p 8bit resolution, input/output device can run to 12 meters away and with WUXGA/1080p12bit resolution it can run up to 10 meters away
- When transmitting a signal in 1080p 8bit resolution the CAT6 operating distance is 40 meters, and when the signal is in 12bit resolution the CAT6 operating distance is 15 meters
- Using only transmitter side's power in 1080p 8bit resolution the CAT6 operating distance is 20 meters depends on source and display used
- The transmitter is powered by its USB connection while the receiver obtains its power through the CAT6 cable. But when operating over long distances the receiver can be connected with a USB power supply for improved performance

System Requirements

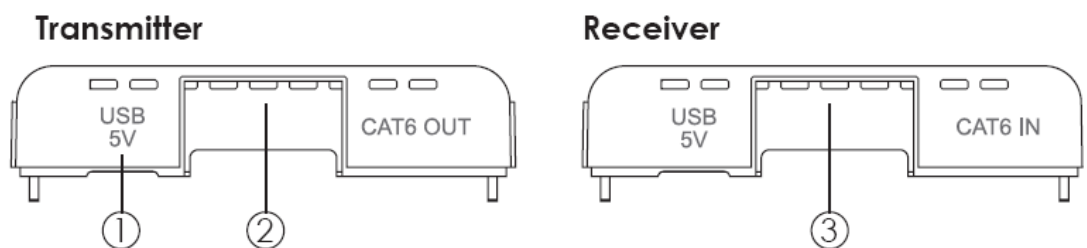
Input HDMI signal source and output HDMI input display with HDMI connection cables and CAT6 cable in between the transmitter and receiver .

Operation Controls and Functions Front Panel



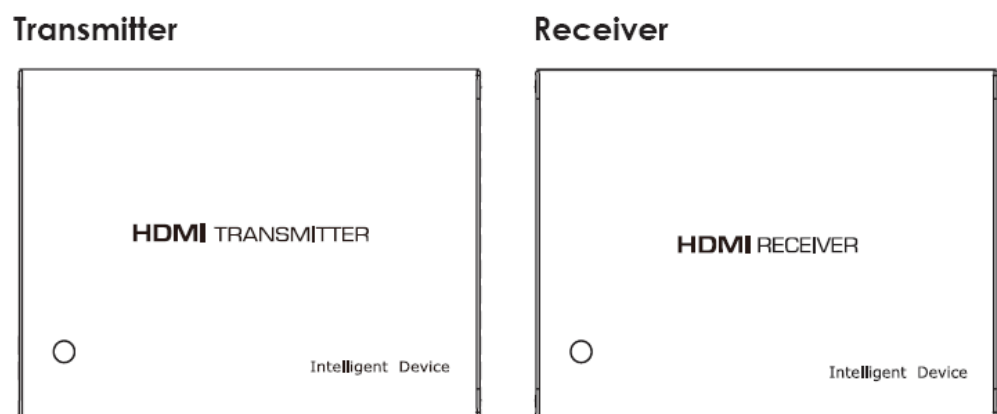
- 1. HDMI IN:** This slot is to connect with source equipment such as DVD or Blue-Ray player for input signal sending.
- 2. HDMI OUT:** This slot is to connect with display monitor or TV for image display.

Rear Panel



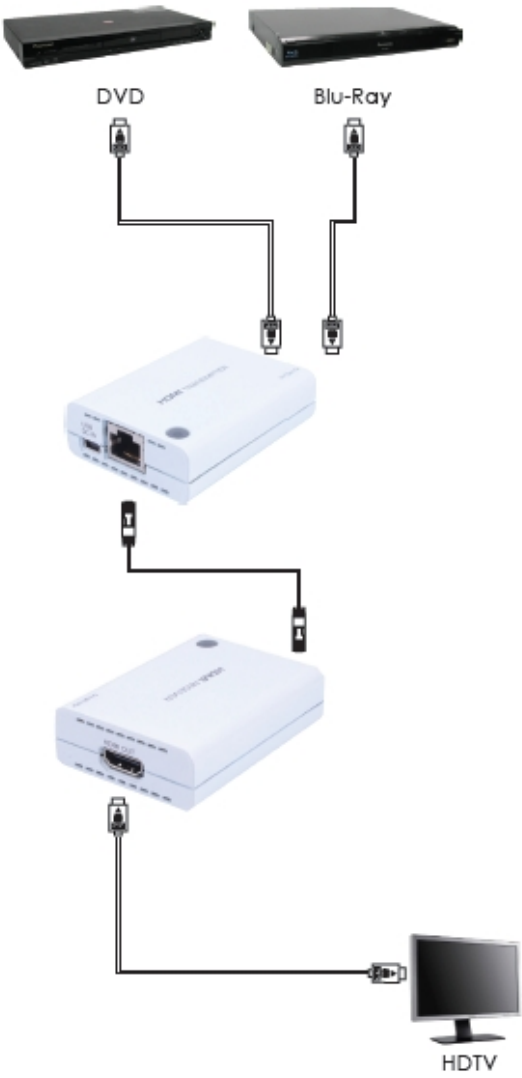
- 1. USB 5V:** This slot is to connect with USB 5V power adaptor included in the device's package.
- 2. CAT6 IN:** This slot is to connect with CAT6 cable to the receiver side.
- 3. CAT6 OUT:** This slot is to connect with CAT6 cable from the transmitter side.

Top Panel



- 1. Power LED:** The blue LED will illuminate when the device is connected with power and detected the signal.

Connection



Specifications

Transmitter

Input 1 x USB (for Power), 1 x HDMI
Output 1 x CAT6

Receiver

Input 1 x USB (for Power), 1 x CAT6
Output 1 x HDMI
Input Cable Distance 12M/ WUXGA or 1080p 8 bits,
10M/ WUXGA or 1080 12 bits
Output Cable Distance 12M/ WUXGA or 1080p 8 bits,
10M/ WUXGA or 1080 12 bits
CAT6 Cable Distance 40M/ WUXGA or 1080p 8 bits,
15M/ WUXGA or 12 bits
ESD Protection Human Body Mode
: ± 8kV (air-gap discharge)
: ± 4kV (contact discharge)
Operating Temperature 0°C ~ 45°C/ 32°F ~ 104°F
Storage Temperature -20°C ~ 60°C/ -4°F ~ 140°F
Relative Humidity 20~90% RH (non-condensing)
Power Consumption 3.5W/TX 2W/RX