HDMI v1.3 over One CAT6 Transmitter & Receiver - 1D# 905/906



Operation Manual



Introduction

The HDMI 1.3 over one CAT 6 Transmitter and Receiver is designed for displaying HDMI content over long distances, up to 45 meters. Instead of using expensive HDMI cables, your existing CAT 6 cables/sockets installation will easily handle functions like transferring 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 2.25Gbps. The HDMI 1.3 over one Cat 6 Transmitter and Receiver is a cost effective and reliable solution for HDMI transmission over distance.

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.
- Equalizes and recovers incoming TMDS data before re-transmitting it in optimal quality regardless of the incoming signal quality.
- Cable testing showed that with 1080p 8bit resolution the HDMI input/ output source can be 15meters away.
- Cable testing showed that with 1080p 8bit resolution the CAT6 input/ output device can be 45 meters away and when 1080p 12bit it can be 15 meters away.
- Support xvYCC

Applications

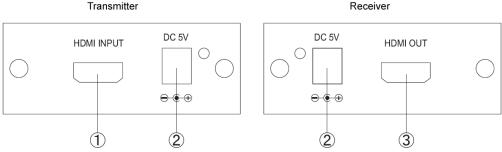
- Long distance HDMI signal distribution
- Showroom display
- Hypermarket display
- Lecture room display

System Requirements

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

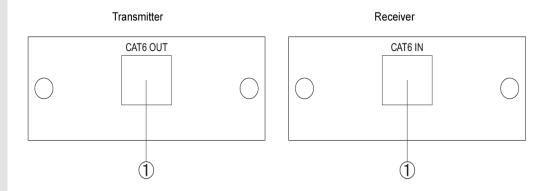


Operation Controls and Functions Front Panel



- 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 adapter to an AC outlet.
- **3 HDMI OUTPUT:** This slot is where you connect the HDMI or DVI input port of your display such as an HDTV/HD monitor or connect it to another transmitter from the same family in order to extend your transmission over long distances.

Rear Panel



① CAT6 OUT/IN: Connect the CAT6 output of the transmitter with a 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" Phillips 8 bit LCD TV and 40" 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.



Specifications

Frequency Bandwidth

Transmitter

Input/Output Ports

Output/Input Ports

Receiver

1 x HDMI Female port/1 x CAT6

1 x HDMI Female port/1 x CAT6

2.25Gbps (single link)

Power Supply 5V/ 1A DC (US/EU standards, CE/FCC/UL

certified)

ESD Protection Human Body Model:

± 8kV (air-gap discharge) ± 4kV (contact discharge) 78.5 (W) x 72 (D) x 30 (H) / each

Dimensions (mm) 78.5 (W) x 72 (D) > Weight(g) 90 / each Aluminum

Silkscreen Color Silver

Power Consumption TX: 3.5w; RX: 2w

 $\begin{array}{ll} \textbf{Operating Temperature} & 0°C \sim 40°C \ / \ 32°F \sim 104°F \\ \textbf{Storage Temperature} & -20°C \sim 60°C \ / \ -4°F \sim 140°F \\ \textbf{Relative Humidity} & 20\sim 90\% \ \text{RH (non-condensing)} \end{array}$

Connection

