

HDMI v1.3 over One CAT6 Transmitter & Receiver - ID# 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

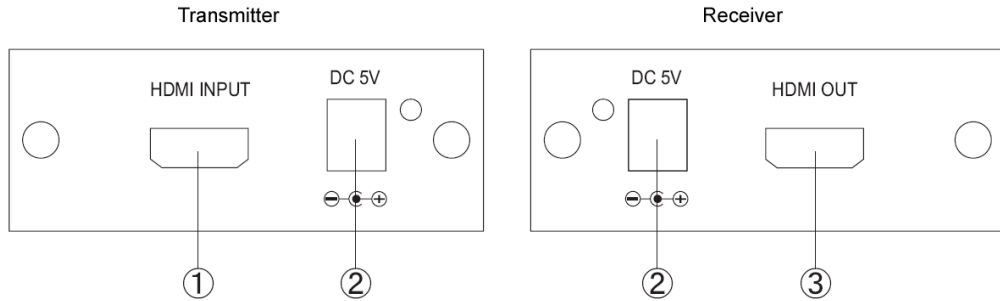
Applications

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

System Requirements

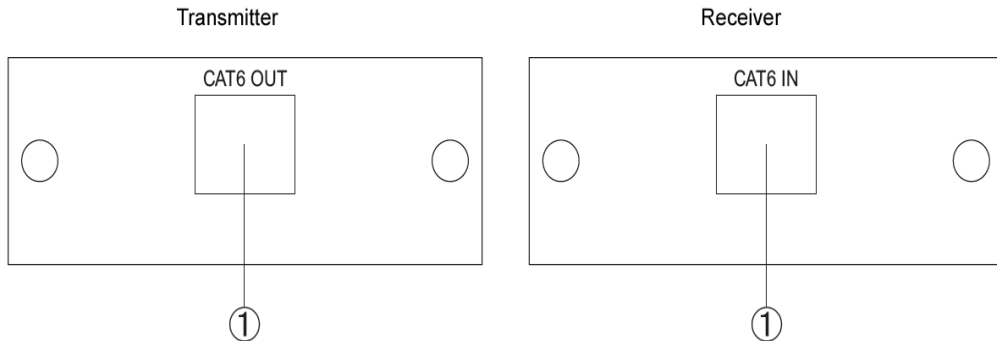
Input HDMI source equipment and output HDMI display with connection cables and one CAT6 cable.

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	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: ± 8kV (air-gap discharge) ± 4kV (contact discharge)
Dimensions (mm)	78.5 (W) x 72 (D) x 30 (H) / each
Weight(g)	90 / each
Chassis Material	Aluminum
Silkscreen Color	Silver
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)

Connection

