

# 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

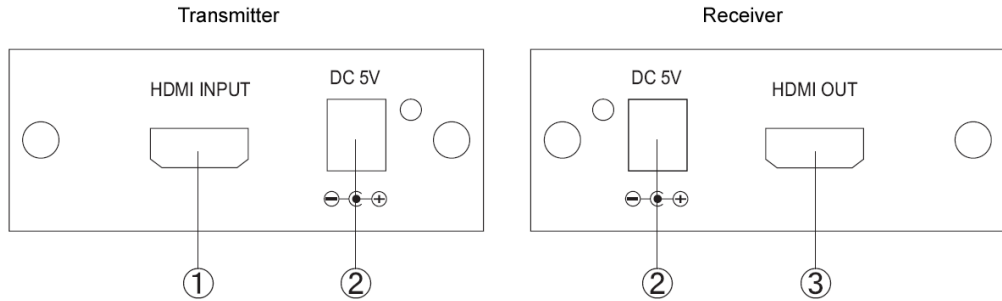
## Applications

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

## System Requirements

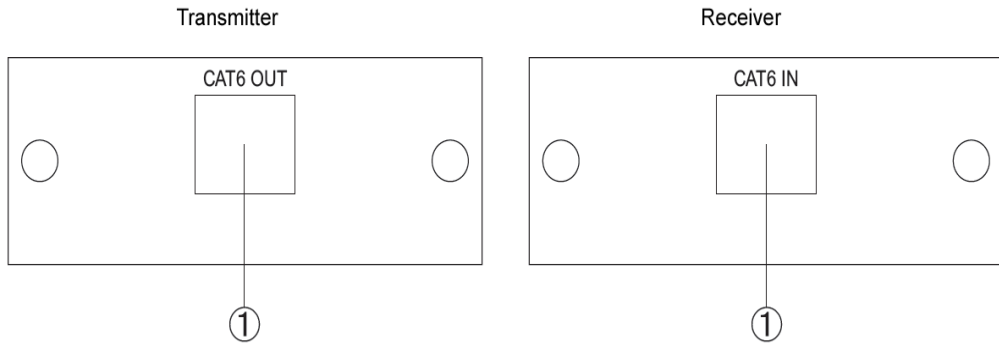
Input HDMI source equipment and output HDMI display with connection cables and one CAT6 cable.

## 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

<b>Frequency Bandwidth</b>	2.25Gbps (single link)
<b>Transmitter</b>	
<b>Input/Output Ports</b>	1 x HDMI Female port/1 x CAT6
<b>Receiver</b>	
<b>Output/Input Ports</b>	1 x HDMI Female port/1 x CAT6
<b>Power Supply</b>	5V/ 1A DC (US/EU standards, CE/FCC/UL certified)
<b>ESD Protection</b>	Human Body Model: ± 8kV (air-gap discharge) ± 4kV (contact discharge)
<b>Dimensions (mm)</b>	78.5 (W) x 72 (D) x 30 (H) / each
<b>Weight(g)</b>	90 / each
<b>Chassis Material</b>	Aluminum
<b>Silkscreen Color</b>	Silver
<b>Power Consumption</b>	<b>TX:</b> 3.5w ; <b>RX:</b> 2w
<b>Operating Temperature</b>	0°C ~ 40°C / 32°F ~ 104°F
<b>Storage Temperature</b>	-20°C ~ 60°C / -4°F ~ 140°F
<b>Relative Humidity</b>	20~90% RH (non-condensing)

## Connection

