CH-103TX HDMI v1.3 to CAT6 Transmitter

Operation Manual



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1. Introduction

This is the transmitter (Tx) unit of HDMI to CAT6 Solution that can extend HDMI digital signal through CAT-6 cables. This is compatible with HDMI v1.3 specifications, a cutting-edge technology which defines the supports to 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 installation of HDMI to CAT6 is easy and quick, simply place transmitter side next to your HDTV source such as a DVD player, then place the receiver side next to your CAT 6 to CAT6 repeater unit and get all necessary cables connected and enjoy.

2. Features

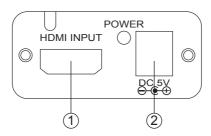
- HDMI 1.3, HDCP 1.1 and DVI1.1 Compliant.
- Supports digital video formats in Deep Color Mode at up to 36 bits (12bits/color) and new lossless compressed (Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio) Digital audio.
- Supports CAT-6 cables for data/DDC transmission.
- Supports equalize and 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/8bits resolution the Input/Output source can run up to 30/45 meters. If 1080p/12bits resolution the Input/Output source can run up to 15/15 meters.
- Supports CEC bypass.
- Supports xvYCC.

3. Package Contents

- HDMI to CAT6 Transmitter.
- 5V DC power supply adaptor.
- Operation Manual.

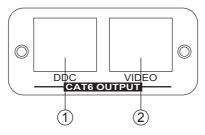
4. Operation Controls and Functions

4.1. Front Panel



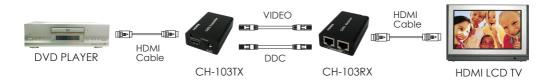
- (1) HDMI input: Connect the HDMI input port to the HDMI or DVI output of your source equipment such as DVD player or set-top-box.
- 2 Power: Plug the 5VDC power supply into the unit and connect the adaptor to AC wall outlet.

4.2. Rear Panel



- 1) DDC output: Connect the DDC output to the DDC input of the receiver unit using CAT-6 cable.
- 2 Video output: Connect the video output to the video input of the receiver unit using CAT-6 cable.
- Note: A. Cable tested with CAT-6E / 23AWG / Solid and therefore, cable with different specification may result in different distance.
 - B. Cable distance tested with equipment PS3 20G, 37" Philips 8 bit LCD TV and 37" SamSung 12 bit LCD TV.
 - C. Figures provided in this manual are reference figures only, actual figures may depend on source and display use with cable specification.

5. Connection and Installation



6. Specifications

Input Port 1 x HDMI

Output Ports 1 x CAT-6 output for Video,

1 x CAT-6 output for DDC

Power Supply 5V/2.6A DC (US/EU standards,

CE/FCC/UL certified)

Dimensions (mm) $50(W) \times 62(D) \times 23(H)$

Weight(g) 90

Chassis Material Aluminum
Silkscreen Color Black
Operating Temperature 0°C ~ 40°C