



## 4K-1 Channel HDMI Audio and Video Optical Transceiver

(No Compression 3840\*2160P@30HZ)

### Product Description:

**Model No.:** HMDV-T/R1HDMI-4K

**Product Name:** 1 Channel HDMI Audio and Video Optical Transceiver

**Type:** Standard (stand-alone)

**Dimensions:** 125 mm (length) x 90 mm (width) x 25 mm (height) stand-alone

**Weight:** 1KG/pair

**Packaging:** Standard packaging

**Description:** 4K-HDMI optical transceiver is composed of HDMI transmitter and receiver, which transmits HDMI audio and video signals through a

single-mode optical fiber. In multimedia application systems, HDMI video signals, audio and video signals are often required to be transmitted over long distances. However, when using ordinary cables for long-distance transmission, the output signal is always poor and easily interfered, and the displayed image will be blurred, smeared, and color-separated. At the same time, the transmission distance is short, and multiple cables are required to transmit these signals at the same time, which cannot meet the requirements of long-distance transmission in multimedia information release and other occasions. The use of HDMI optical terminal for transmission completely solves this problem, with a transmission distance of 0-10 kilometers. At the same time, optical terminal transmission has the advantages of small attenuation, wide bandwidth, strong anti-interference performance, high safety performance, small size, and light weight, so it has incomparable advantages in long-distance transmission and special environments. . The application of HDMI optical terminal equipment in multimedia systems can save construction costs and the complexity of routing, and ensure high quality.

### **Features**

- ◆ Fiber optic transmission technology effectively eliminates electromagnetic interference and is suitable for application in complex field environments.
- ◆ Digital synchronous transmission technology, no signal fading, color deviation and other problems.
- ◆ Single-fiber transmission technology, only one core of the optical cable is used, saving costs and easy installation
- ◆ Intelligently identify and reconstruct the 2160P-HDMI signal format that meets industrial standards, plug and play.
- ◆ With optical link and HDMI signal detection and indication functions, it greatly facilitates engineering installation.
- ◆ Use DC-DC power conversion technology to effectively resist power environment interference.
- ◆ HDMI resolution: up to 3840 X 2160P@30HZ

**Video Characteristics:**

Input interface: HDMI interface

Output level: 0.7Vp-p

Transmission direction: unidirectional transmission

Supported video resolution:

- 1920X1080P@60HZ

- 3840 X 2160P@30HZ

**Audio Characteristics:**

Transmission direction: unidirectional transmission

Input characteristics: 5Vp-p, unbalanced, impedance 2KOhms Output

characteristics: 5Vp-p, unbalanced, impedance not higher than 200Ohms

**Fiber Characteristics:**

Interface Type: Standard configuration LC [[10G, 10G optical module]]

Wavelength: 1310nm, single mode

Output Optical Power: 0-5dBm (standard 10km product)

Receiver Sensitivity: better than 18dBm (standard 10km product)

Transmission Direction: unidirectional transmission

Power Supply: DC 5V2A

Operating Temperature: -20°C - 50°C

Humidity Range: 0-95%, non-condensing

Storage Temperature: -40°C - 80°C