# EOHD-00101

## HDMI Fiber Optic Extender

## User Manual



*VER: V2.0*

# 1. Description

The EOHD-00101 Fiber optic extender provides extension of HDMI signals long distances over one fiber optic cable, it supports high resolution up to 1080P, EDID pass-through, KVM signal, RS232 signal and external audio transmission function. The extender can use for a wide range of applications requiring long distance transmission of high resolution with high quality by its good stability and powerful security.
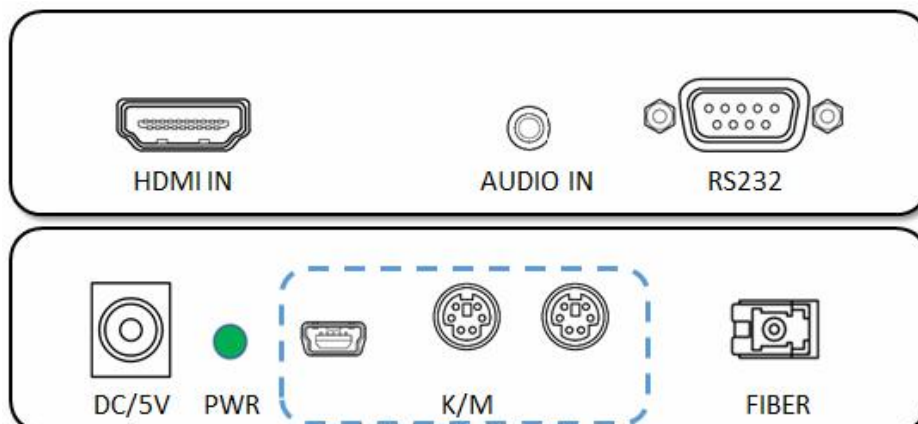
# 2. Features

- Transmits HDMI video signals up to 1km over one fiber optic cable;
- Support video resolution up to 1920*1080P@60Hz;
- Support EDID pass-through function, can match many kind display device;
- Support keyboard and mouse signal transmission;
- Support external stereo audio unidirectional transmission;
- Support RS232 signal bidirectional transmission, baud rate self-adaptive;
- Compliance with HMDI 1.3 and HDCP 1.2 standard;
- High compatibility, can auto-match source and display device;
- Built-in automatic adjustment system, make the image smooth, clear and stable;
- Built-in ESD protection system;
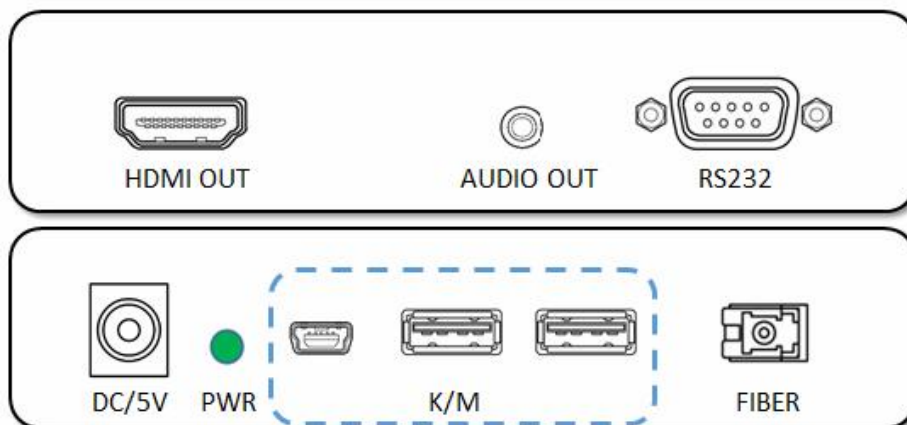- Simple to install, plug and play;

# 3. Specifications

| Parameter | | Description |
|---|---|---|
| Video | Standards | HDMI 1.3; HDCP 1.2 |
| | Maximum pixel clock | 165MHz |
| | Maximum data rate | 6.75Gbps |
| | Resolution range | Up to 1920X1080P@60Hz |
| | Connector | Female HDMI type A |
| | Impedance | 100Ω |
| Audio | Interface | 3.5mm earphone seat |
| | Signal type | Stereo |
| RS232 | Interface | DB9 socket |
| | Signal direction | Bi directional |
| | Baud rate | Self-adaptive, Max：115200bps |
| | Data bits | 8 |
| KVM | Interface | To PC: standard MINI-USB, PS2 optional<br>To K/M: standard USB, PS2 optional |
| Optical fiber | Interface | LC connector |
| | Fiber type | Single-mode single fiber |
| | Wavelength | Single-mode 1310nm |
| | Interface bandwidth | 6.25Gbps |
| | Transmission distance | OM3 multi-mode fiber：maximum 300m，<br>Single-mode fiber：standard 1km |
| Other | Power supply | The power adapter: DC 5V/2A |
| | Power dissipation | MAX 6W |
| | Temperature | Operating：-5 ℃ ~ +70℃ |
| | Humidity | Operating：5% ~ 90% |
| | Dimension | 136*130*30mm |
| | The warranty | 1 year free warranty |

# 4. Panel

## Transmitter:



## Receiver:



| Port name | Description |
|---|---|
| HDMI IN/OUT | HDMI input/output |
| Audio IN/OUT | Stereo audio signal input/output |
| RS232 | DB9 socket |
| K/M | 1. Transmitter connect to PC<br>2. Receiver connect to keyboard and mouse |
| DC/5V | Power adapter socket |
| Fiber | LC connector |
| LED indicator | Description |
| PWR | System power indicator |

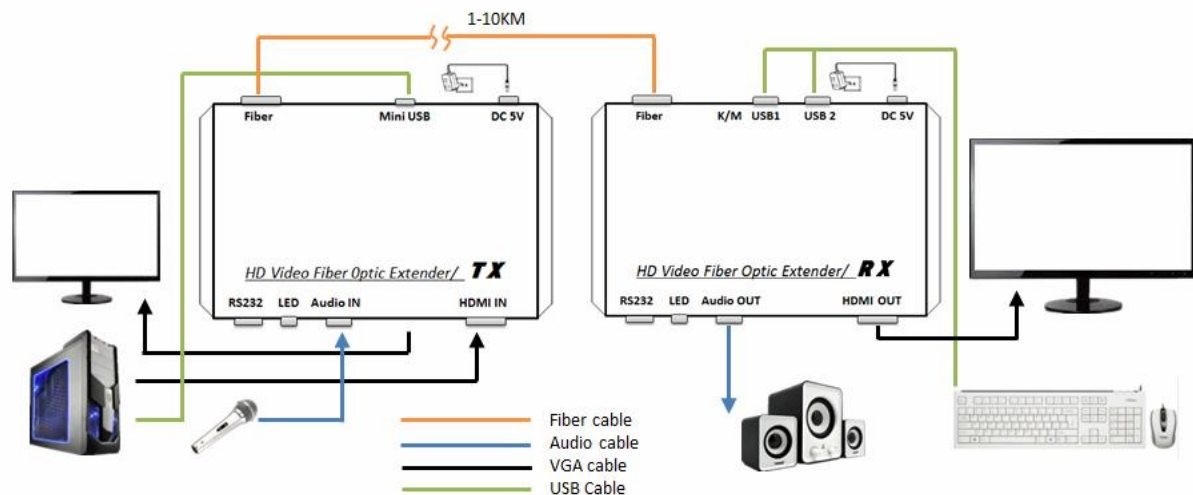**Note: HDMI audio output is default, when detect external audio input, switch to external audio.**

# 5. Package list

- HDMI optical fiber transmitter ········. 1 pc
- HDMI optical fiber receiver ············. 1 pc
- Power adapter ·······························..2 pcs
- User manual ·······························.. 1 pc

# 6. Installation

1. Connect the provided DC/5V power supplies to the power socket of the transmitter and the receiver,
2. Connect an HDMI cable between the HDMI input port of transmitter and the HDMI output port of the video source,
3. Connect the HDMI output port of receiver to the display device with HDMI cable,
4. Connect the transmitter optical port to the receiver optical port using one fiber optic cable.

# 7. Diagram

# 8. Warranty

Thank you very much for using our products.

The warranty time is one year and life-long maintenance. During this period, any belongs to under normal usage circumstance cause because of the product quality's problem of breakdown, our company will be responsible for giving free maintain.

Free maintain won't be given under the following circumstance:

l    The malfunction and damaged caused by incorrect use, the unauthorized repairs and alteration;

l    The damage caused by fire, flood, abnormal voltage, other natural disasters and secondary product damage;

l    The product malfunction caused by not in accordance with the user manual operation;

l    The malfunction and damaged caused by the other barriers(man-made factors or external device);

Any problems in the after-sales service, please contact us directly.

## Warranty card

| Product information | | | |
|---|---|---|---|
| Model NO | | Product code | |
| Date of purchase | | | |
| Malfunction description | | | |
| Custom information | | | |
| Name | | Telephone | |
| Company | | E-mail | |
| Address | | | |