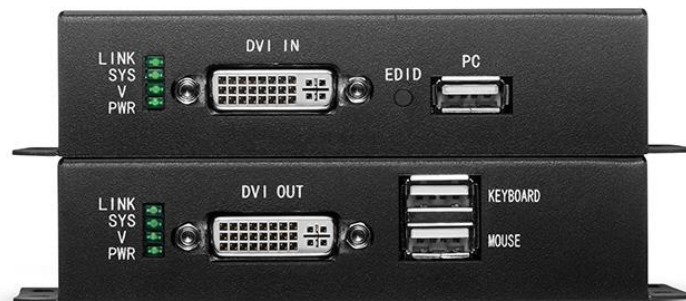


4KDVIUF

User Manual

Models: 4KDVIUF



Contents

1. Overview 1

2. Functions and Features 1

3. Typical Application 1

4. Specifications 1

5. Panel Instruction2

5.1 Front and Rear Panel 2

5.2 Front and Rear Pane 3

6. EDID learning 3

7. Installation and Operation3

7.1 Installation Steps 4

7.2 Preparation4

7.3 Connection 4

1. Overview

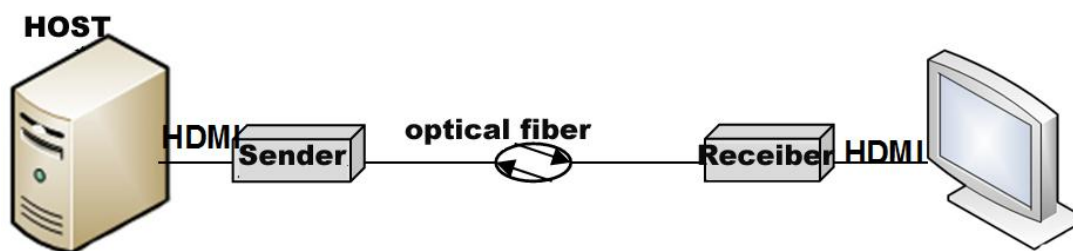
Thank you for using our DVI digital transmitter/receiver over fiber. All products comply with ISO9001 quality system, and we provide customers with high-reliable equipment and good services.

This DVI fiber transceiver supports many resolutions up to 4K@30Hz. Longest distance could be up to 60Km; widely used in video conference, videowall, remote teaching, remote control and surveillance and so on

2. Functions and Features

- Transmit 1-ch DVI signal with USB for K&B over single fiber
- Support max resolution :4K@30Hz, compatible with lower
- Support embedding audio
- Uncompressed CWDM technology, could do 8-ch 4K HDMI over single fiber
- Support 1U and 4U rack mount
- Single mode is 0-60KM and multimode is 0-300M
- LED indication, aluminium alloy stand alone housing

3. Typical Application



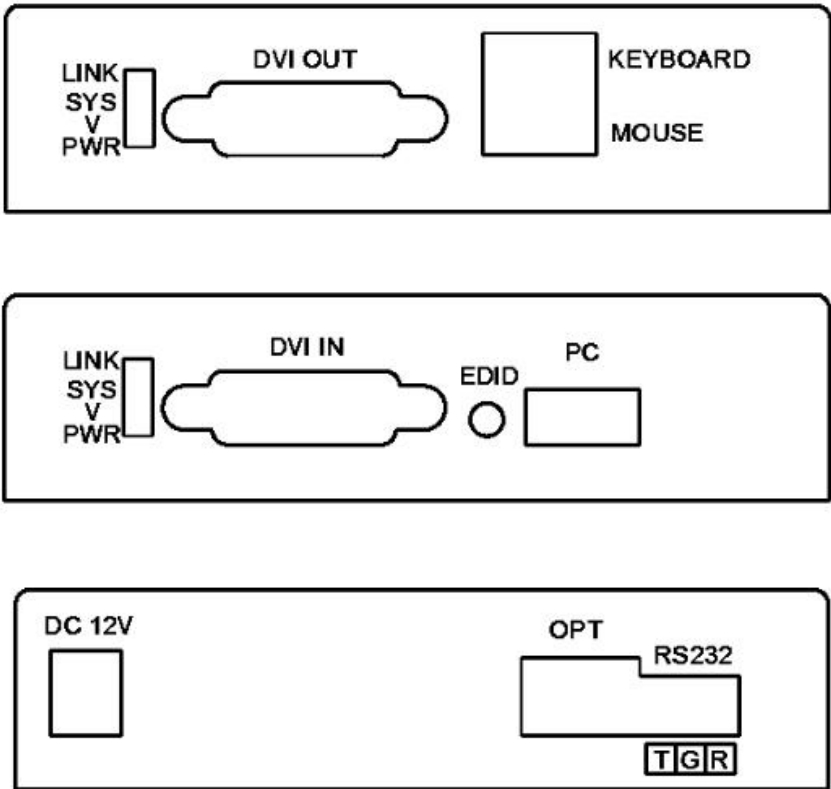
4. Specifications

Components	parameter
Functions	Transmitter has 1-ch DVI input, 1 USB input Receiver has 1-ch DVI output, 2 USB output

DVI Video	Standard: DVI 1.1, compatible with HDMI1.4 Reflection loss: >15db DVI Bandwidth: 10Gbps DVI Video Format: support: 480p, 576P, 720P, 1080I, 1080P, 4K@30Hz Input/output Level: 1000 mVp-p Connector: DVI
Optic Parameter	Wavelength: 1310 or 1550nm Fiber Type: single mode is 0-60KM(SM) or multimode is 0-300M(MM) Standard is 10KM for single mode Reflection loss: >40db Transmitter output optical power: -2~-8dBm (or larger) Receiver sensitivity: -24dBm Connector: LC/PC
Power	Power: ≈5W Current/Voltage: 1A @12VDC EMI/RFI: FCC Part15 Class A, EU EMC Standard MTBF: >100000 hours
Environment	Working Temp: -40°C~+60°C Storage Temp: -65°C~+85°C
Dimension and Weight	Dimension: stand alone: 130mm x79mm x28mm Weight: 3Kg/pair

5. Panel Instruction

5.1 Front and Rear Panel



5.2 Front and Rear Pane

LED /Status	Definition	Light	No Light
LINK	Video cable indication	DVI cable link is normal	DVI cable link is abnormal
SYS	Transmitter: System indicationn	System works	Abnormal
	Receiver: fiber indication	Fiber cable link is normal	Fiber cable link is normal
V	Video indication	Video locked	No video
PWR	12V power indication	Normal	No power

6. EDID learning

When device does not work with normal fiber link and video normal input, please connect TV or Screen to DVI input port of Transmitter, then power on this transmitter and the TV or Screen, then click the EDID button on transmitter until LED V indicator stops flash. EDID is learnt well.

7. Installation and Operation

This DVI fiber transmission system is very easy to install and use, please confirm the actual transmission distance when you place the order

7.1 Installation Steps

- Make sure that transmitter/receiver are in the correct position; Cable and fiber jumpers are available
- Away from strong sources of electromagnetic interference. Prevent water and moisture into the device

7.2 Preparation

- Fix the equipments
- Use cable to connect DVI video signal resource device to transmitter
- Use fiber cable to connect DVI transmitter and receiver
- Connect DVI receiver to Screen
- Power on

7.3 Connection

Video connection: Using good DVI cable to connect DVI resource device and screen to DVI Transmitter and Receiver.

8. Laser Safety

All series of "power/optic" converter has a laser, the purpose is to limit and reduce the risk of harm from laser exposure, so please carefully read the following notes about laser safety

Emission wavelength of laser of equipments is 1310 nm or 1550 nm, means that the human eye can not see beam, and nictation can not protect your eyes (the human eye could see wavelength range, from 400nm to 700nm); laser beam is harm to our eyes, damage level depends on laser beam power and exposure time

So, be careful when plugging fiber pigtail; never look directly at pigtail end; never use the microscope, magnifying glass to observe the end of fiber; laser safety goggles for protection wavelength 1310nm and 1550nm, all lasers are compliant with Class I standard of IEC 825-1 1993, under normal circumstances, Class I standard is in accordance with 21 CFR 1040.10, Max. Output optical power is 5MW, wavelength> 1270 nm

Note: Max. Power is only used for security analysis, does not mean that equipment performance