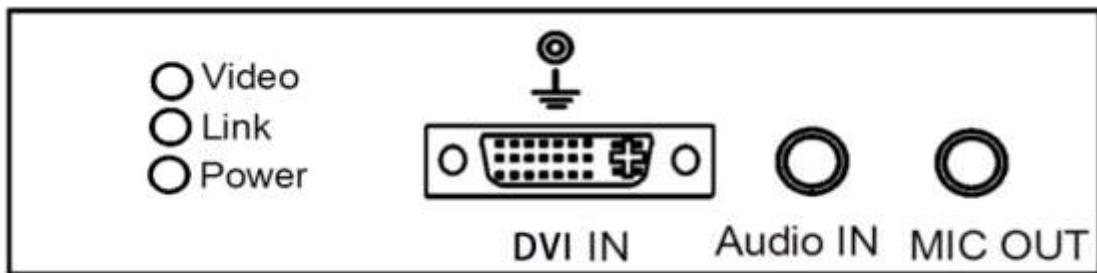# DVI fiber extender
User Manual

Product Introduction

The product is composed of transmitter(marked with sender)and receiver(marked with receiver),can extend the DVI video signal, Stereo audio, Mic signal to the far end through one single fiber optical cable. It can also transmit RS232 serial port signals for long-distance transmission with touch screen, pan/tilt, electronic whiteboard and other devices. IR signals can be used for infrared remote control of DVDs, set-top boxes and other devices. The farthest transmission distance is 20 kilometers, the user can control the computer at the remote end, the image effect is clear and natural, and the resolution is up to 4K×2K.

Products can be used in security monitoring, multimedia information release, video conferencing, multimedia classrooms, centralized management of hosts, large-screen advertising, education systems, splicing systems, etc.
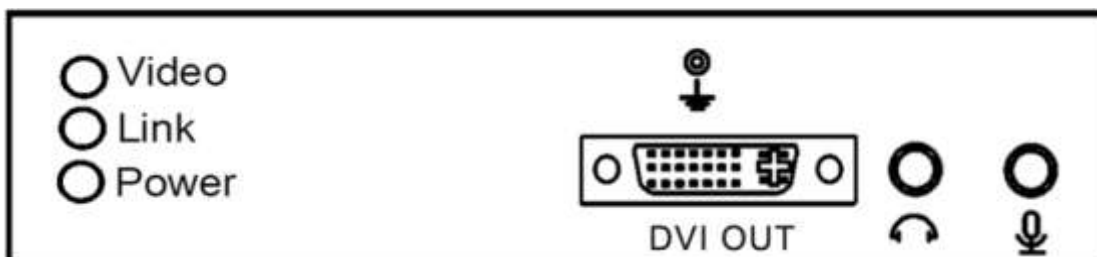
Product interfaces

Front of sender：

Rear of sender：

Front of receiver：

Rear of receiver：

Product interface introduction

Equipment	Interface	Introduction
Sender	DVI IN	DVI input interface
	Audio IN	Audio input interface
	MIC OUT	Microphone output interface
	OPT	Fiber interface
	IR OUT	Infrared output interface
	G R T	Serial input interface
	DC	DC power jack
Receiver	DVI OUT	DVI output interface
	🎧	Audio output interface
	🎤	Mic input interface
	OPT	Fiber interface
	IR IN	Infrared input interface
	G R T	Serial output interface
	DC	DC power jack

Indicators instruction

Equipment	LED Indicator	Color	Status	Meaning

Sender	Power	Red	Bright	Power is normal
	Link	Green	Bright	Transmitter and receiver establish normal communication link
	Video	Yellow	Bright	The transmitter is able to detect the video signal input and the receiver has recognized that the display is displaying properly
Receiver	Power	Red	Bright	Power is normal
	Link	Green	Bright	No communication between Transmitter and receiver
	Video	Yellow	Bright	The receiver has recognized that the display is displaying properly

Product Features

1. Digital uncompressed transmission, clear image and strong anti-interference ability;

2. Support multiple resolutions, maximum 4K×2K@30HZ; support 3D

3. Support EDID transparent transmission, compatible with different brands of display;

4. Support bidirectional transmission of audio;

5. Support bidirectional transmission of serial port;

Technical parameter

Function	Number of input signal	Sender：1CH(DVI、RS232、AUDIO) Receiver：1CH(MIC、IR）
	Number of output signal	Sender：1CH(MIC、IR) Receiver：1CH(DVI、RS232、AUDIO)
	Transmission distance	SM：0-20km MM：0-2km
Video transmission performance	Video input/output interface	DVI-I（Only support DVI-D signal）
	Support HDCP version	HDCP1.2
	DVI resolution	Maximum 4K×2K@30HZ
Audio	Interface	3.5mm stereo audio jack
Infrared remote control performance and interface	Remote interface	3.5mm audio jack
	Remote interface signal	Infrared control signal
Optical port	Optical input, output interface	Single/multimode LC type
	Transmission wavelength	850nm/1310nm/1550nm
Attribute	Size (L×W×H)	Sender：131mm×93mm×32mm

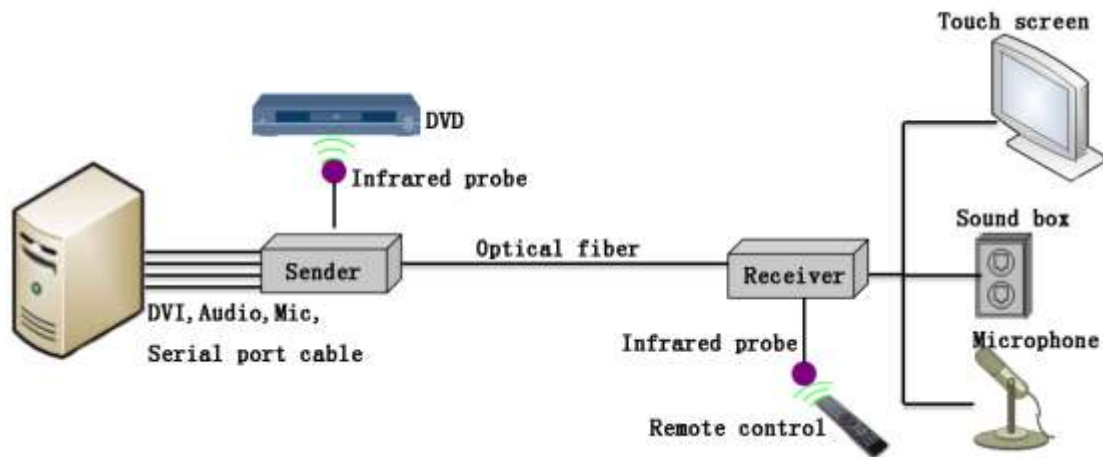|		Receiver: 131mm×93mm×32mm
	Material	Aluminum
	Color	Black
	G.W	1Kg
Power supply	Adaptive voltage range	DC9V-12V/1A
	Transmitter power consumption	3W
	Receiver power consumption	3W
Operating environment	Storage temperature	-15℃-55℃
	Relative humidity	-40-80℃
	Working Temperature	0-95% (No condensation）

Packing instruction

After open the product packaging, please check if all of below items are in it. if lost, please contact with us：

| No.	Item	Quantity	Remarks
1	Sender	1pcs	Standard
2	Receiver	1pcs	Standard
3	DVI cable	1pcs	Standard
4	Audio cable	1pcs	Optional
5	Power adapter	2pcs	Standard
6	Infrared transceiver probe	1pair	Optional
7	Industrial terminal block to RS232 adapter cable	2pcs	Optional
8	User manual	1pcs	Standard
9	Warranty card	1pcs	Standard

Installation And Debugging

1. Installation diagram

Connection diagram

2. Installation Steps

Please check if the wire is complete, turn off the host, and install it in the following order:

1. Connect the DVI interface of the host to the DVI IN interface of the transmitter with an DVI cable;Connect the audio interface of the host to the AUDIO IN connector of the transmitter with an audio extension cable, and another audio extension cable connects the microphone interface of the host to the MIC OUT interface of the transmitter; Use the industrial terminal block to RS232 adapter cable connect the host's RS232 interface to the transmitter's G R T interface; the two-pole infrared probe is inserted. Transmitter IR-OUT interface.

2. Insert the fiber into the OPT interface on the transmitter. Power the transmitter with a power adapter.

3. The display is connected to the DVI OUT interface of the receiver through the DVI cable; the soundbox access receiver's ⌒ interface , the microphone access receiver's ⬥ interface, the external serial device connected to the GRT interface of the receiver through industrial terminal block to RS232 adapter cable, the three-pole infrared probe is connected to the receiver IR-IN interface.

4. Insert the other end of the fiber into the receiver OPT interface. Power the receiver with a power adapter.

5. Open the host and you can use it normally.

Warranty and after-sales service

Thank you for using our products, now you have the right of the product lifetime warranty

1. Our Commitment

- Belong to the product quality problem, provide free repair within one year.
- Provide lifetime maintenance service，but if users to tear down by themselves, it beyond the scope of this warranty
- Improper use or man-made damage & broken do not belong to free warranty

2. Attention

- When the machine meet quality problem, please contact the distributors solve the maintenance issues
- If you can't immediately contact to the distributor, please directly contact us, we will help to solve as soon as possible．
- Please provide properly filled warranty card and purchase prove for repair.