

DVI Video to Fiber Optical Converter

➤ Features

- DVI video support maximum resolution 1920*1200@60Hz and downward compatibility;
- Support international standard DVI1.0 HDCP1.4;
- EDID transparent transmission mode;
- Support RGB&YCBCR4:4:4 YUV4:4:4 /4:2:2/4:2:0;
- Support DDC/CEC/HPD signal;
- Support 1 channel bidirectional full-duplex RS232 (half-duplex RS485 optional);
- Support 1 channel reverse contact closure function (optional);
- Support Single-fiber or dual-fiber (optional) ;
- Support multi-mode transmission distance 1KM, single-mode transmission 10KM;
- Support hot swap signal, plug and play, no setting required;
- Delay < 2 ms;
- Support power supply DC12V;
- Wide range of operational temperature (-20°C ~75°C);
- Warranty: 3 years;



➤ Introduction

UPCOM DVI video to fiber optical converter DVI0101-10G is composed of the transmitter and the receiver. The video, audio and data output from the computer host (HD video signal source, HD DVD/DVR and other devices) are extended to the remote user through one core optical fiber, and the image and sound of the computer host are played in real time at the remote end.

DVI0101-10G DVI video fiber optical converter support 1920*1200@60Hz resolution and downward compatibility, 1 channel bidirectional full-duplex RS232 (half-duplex RS485 optional), 1 channel reverse contact closure function (optional), multi-mode transmission distance 1KM, single-mode transmission 10KM, plug and play, no setting required, Single-fiber or dual-fiber (optional).

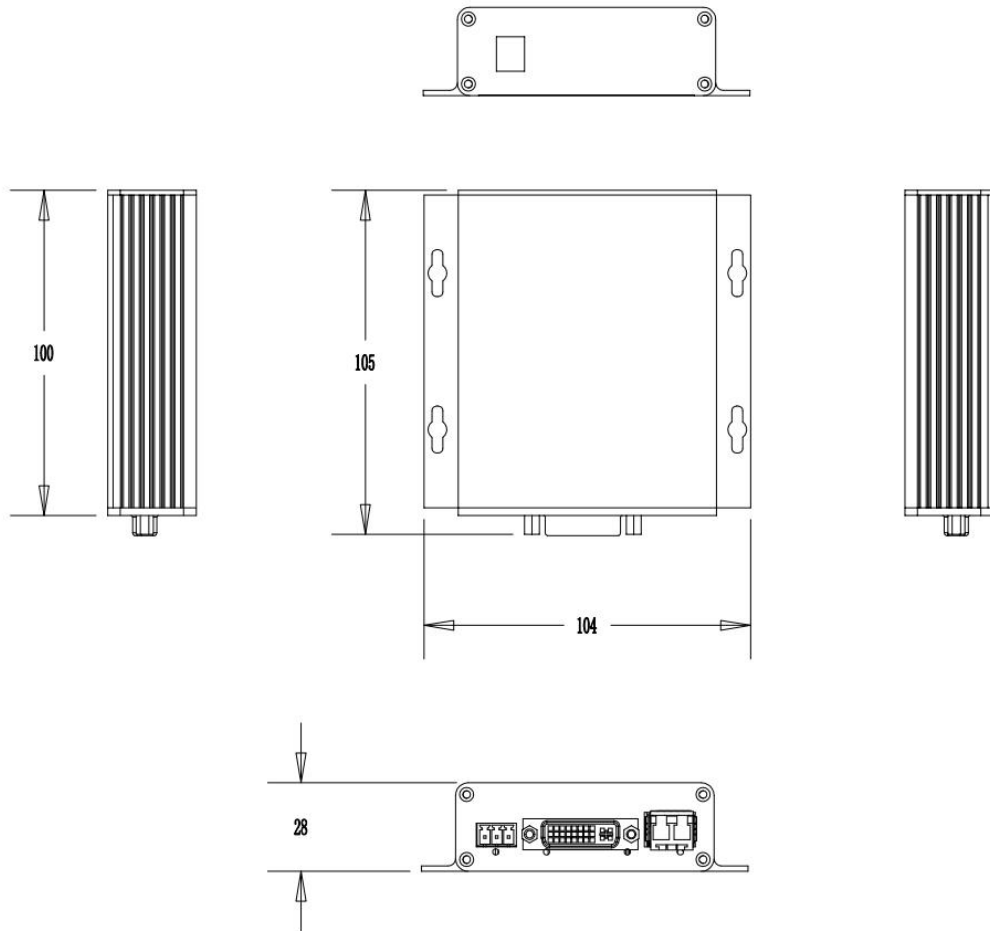
➤ Application

- HD monitor transmission and power supply
- LED splicing screen, projection fusion program, video conference system
- LCD splicing large screen, LED splicing screen, projection fusion scheme, video conferencing system
- Municipal command center, substation control room, steel plant control room
- Cement plant control room, mine control room, coal mine, cement plant, thermal power station
- Fine chemical control room and digital machine room management
- High-building Security Protection, Military Tele-Com project

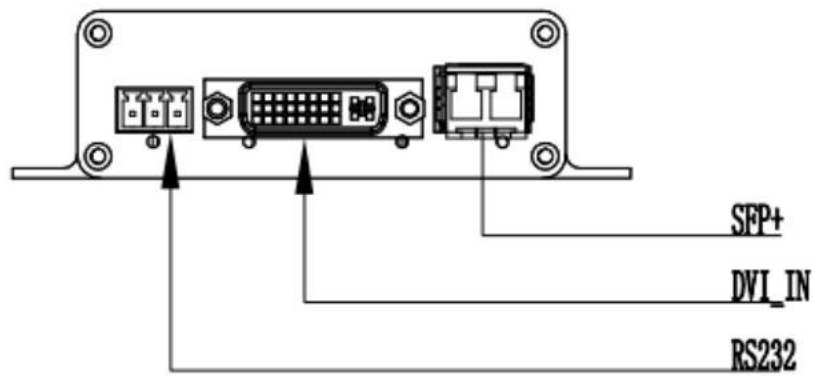
➤ Specification

Fiber Optical	
Wavelength	1310-1550nm
Rate	10Gbps
Tx power	> -5db
Rx sensitivity	> -14db
Fiber connector	LC
Video	
Video bandwidth	10GHz Gbps
Resolution	1920*1200@60Hz downward compatibility
Maximum pixel clock	297MHZ
Effective cable length	10M
Physical interface	DVI female
RS232 data index (3-wire system,full duplex) standard	
Baud rate	256000Hz downward compatibility
Data bits	8 digits
Physical interface	3-pin phoenix terminal
RS485 data index (2-wire system,half duplex)	
Error rate	<10 ⁻⁹
Bit rate	0-400Kbps
Physical interface	3-pin phoenix terminal
Other	
Operating temperature	-20°C ~ +75°C
Storage temperature	-40°C ~ +85°C
Power supply	12V1A
Power dissipation	<1.5W
Case	Aluminium alloy
Product net weight	0.2kg/pcs
Product weight	0.75kg/pair
Packing size	275*220*55mm
Relative Humidity	0%~95% (no condensation)
MTBF	100,000 hours
Warranty	3 Years

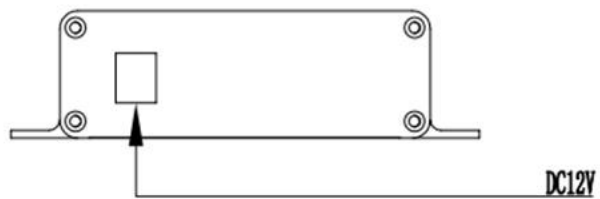
➤ Dimension



Transmitter panel & Indicator description

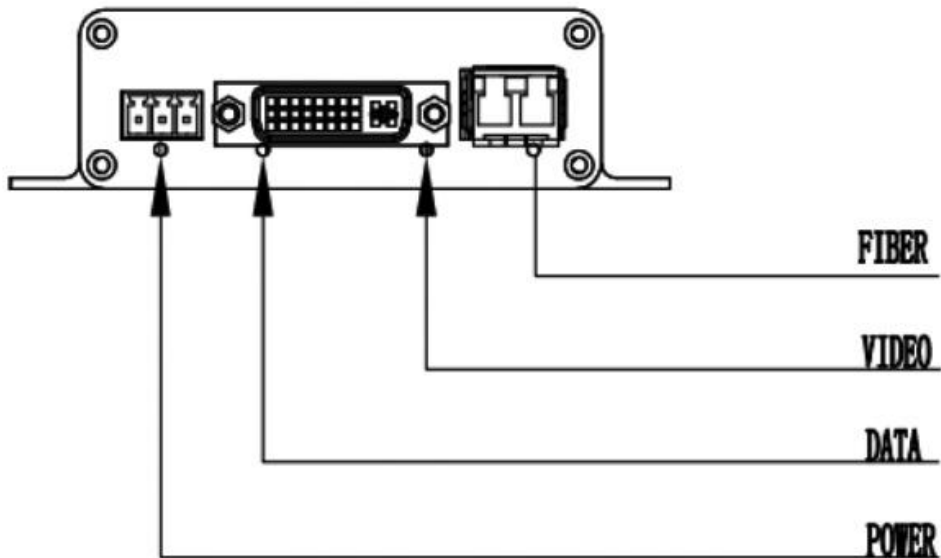


Transmitter Front Panel



Transmitter Back Panel

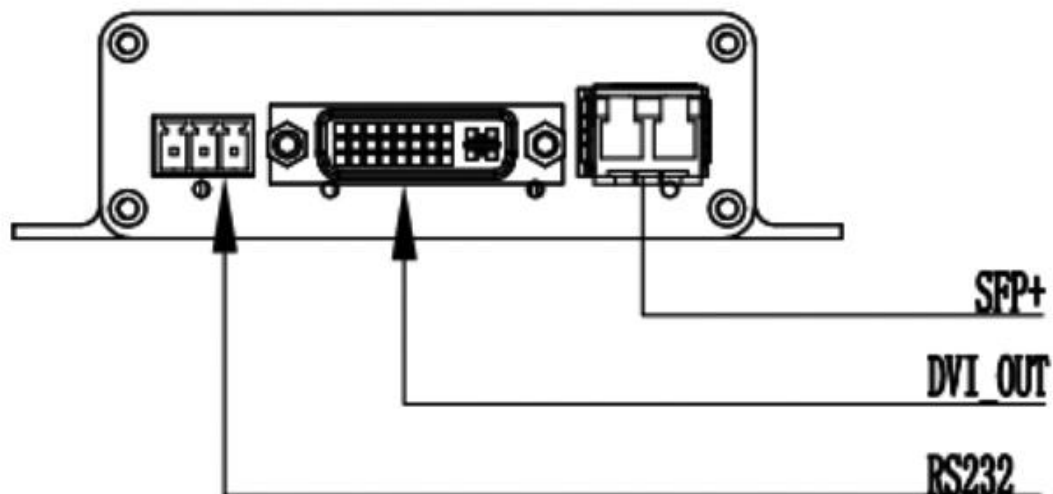
Panel Screen	Description	
SFP+	10G SFP fiber module	
DVI IN	DVI signal input	
RS232	1: GND	Ground wire
	2: RS232 IN	Transmit
	3: RS232 OUT	Receive
DC12V	12V power supply interface	



Transmitter Indicator

Indicator	Description
FIBER	Light on: fiber signal
	Light off: no fiber signal
VIDEO	Light on: video signal
	Light off: no video signal
	Dial down on: Audio embedding mode is on
DATA	Blinking: data signal
	Off : no data signal
POWER	On: the device is powered on
	Off: the device is powered off

Receiver panel & Indicator description

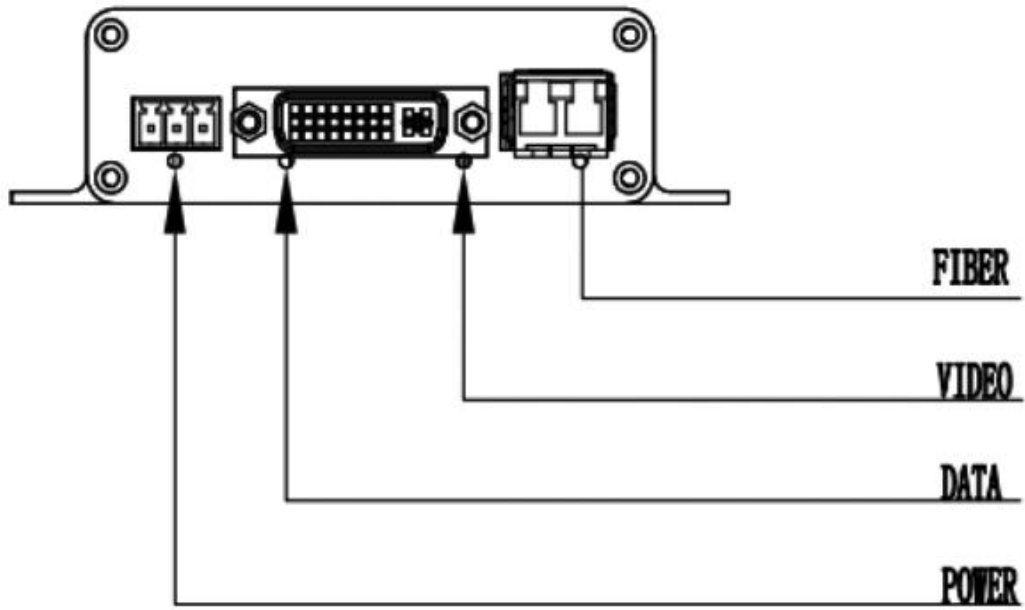


Receiver Front Panel



Receiver Back Panel

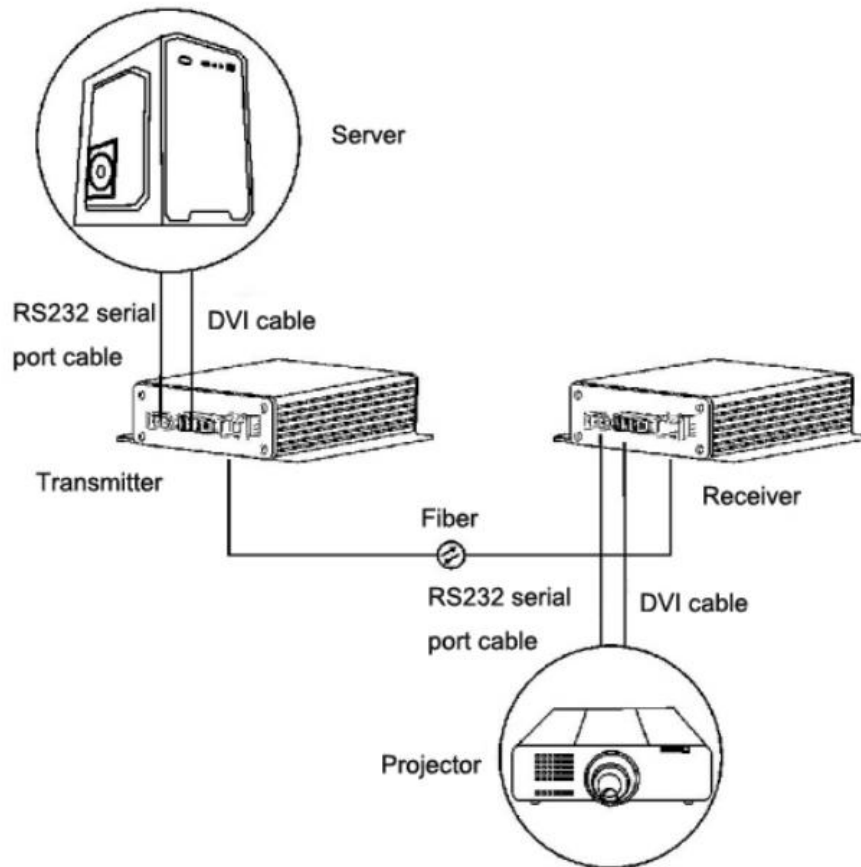
Panel Screen	Description	
SFP+	10G SFP fiber module	
DVI OUT	DVI signal output	
RS232	1 GND	Ground wire
	2 RS232 IN	Transmit
	3 RS232 OUT	Receive
DC12V	12V power supply interface	



Receiver Indicator

Indicator	Description
FIBER	Light on: fiber signal
	Light off: no fiber signal
VIDEO	Light on: video signal
	Light off : no video signal
DATA	Blinking: data signal
	Off : no data signal
POWER	On: the device is power on
	Off: the device is power off

➤ Application



➤ Ordering Information

Model NO.	Description
DVI0101-10G	1 channel DVI video + 1 channel bidirectional RS232 to fiber optical converter
DVI0102-10G	1 channel DVI video + 1 channel bidirectional RS485 to fiber optical converter
MN-DVI0100-10G	Mini DVI 1.0 Video Optical Converter, Single mode single fiber

➤ Packing List

- DVI Video Over Fiber Converter *1
- Power adapter:DC12V
- User manual * 1
- Certificate of quality * 1
- Warranty card * 1

Attention

Lightning protection,static electricity and grounding:

It is recommended that when install the device,consideration should be given to the impact of grounding by lightning,and take prevention measures.Strong static electricity will damage the optical device and data chip in the equipment.It is recommended that when plug/unplug the data port of the optical converter,please disconnect the power supply of the optical converter first.Equipment housing is not waterproof,equipment installation box should be fully considered waterproof.

Fiber and optical components:

Be careful when plugging the optical fiber as optical components of the optical converter is very fragile,and it should avoid causing damage to the optical components.It should be noted that the light source produced by the optical components of the optical converter will be harmful to eyes,so do not have direct eye contact with the optical components of optical converter.If you need to detect the optical power of the optical converter,please use the optical power meter.

Equipment and installation procedures:

- Optical fiber installation:please carefully insert the optical fiber into the optical fiber interface of the optical terminal after confirming that the optical fiber link meets the installation requirements.
- Power amplifier audio signal cannot be directly sent to the transmitter,which will cause burn-in.
- Equipment installation:The equipment is used in pairs, which include a transmitter and a receiver,this information is clearly stated on the label and printed on the chassis of the equipment.