

## Mini DVI 1.0 Video to Fiber Optical Converter

### ➤ Features

- Support HDCP protocol 1.4 standard;
- Support 1920\*1200@60Hz resolution and downward compatibility;
- Support for EDID automatic identification;
- Support EDID memory storage function after power off;
- Support RGB4:4:4,YUV4:4:4/4:2:2/4:2:0 video format;
- Support single-mode dual-fiber/single-fiber transmission of 1KM;
- Support the status light display;
- Support power supply by charging bank ;
- Support the mutual communication with our Mini 4K HDMI series;
- Plug and play,without debugging;
- Wide range of operational temperature (-20°C ~75°C);
- Warranty: 3 years;



### ➤ Introduction

UPCOM Mini DVI 1.0 optical converter is developed to transmit 2K DVI video signal through a core/two core fiber to achieve no delay,no compression,high quality signal extension of 1 km.

Mini DVI 1.0 optical converter adopts video processing and photoelectric conversion integrated design,high integration,small size,its optical components and core circuits are imported components,stable performance,suitable for different working environments.

Mini DVI 1.0 optical converter conforms to the international HDCP protocol 1.4 standard,automatic identification of EDID,with power off EDID memory storage function.

The power consumption of the mini DVI 1.0 optical converter is less than 1.5W,and it uses micro-USB port for supply power,support power supply by charging bank,and has strong flexibility in use.

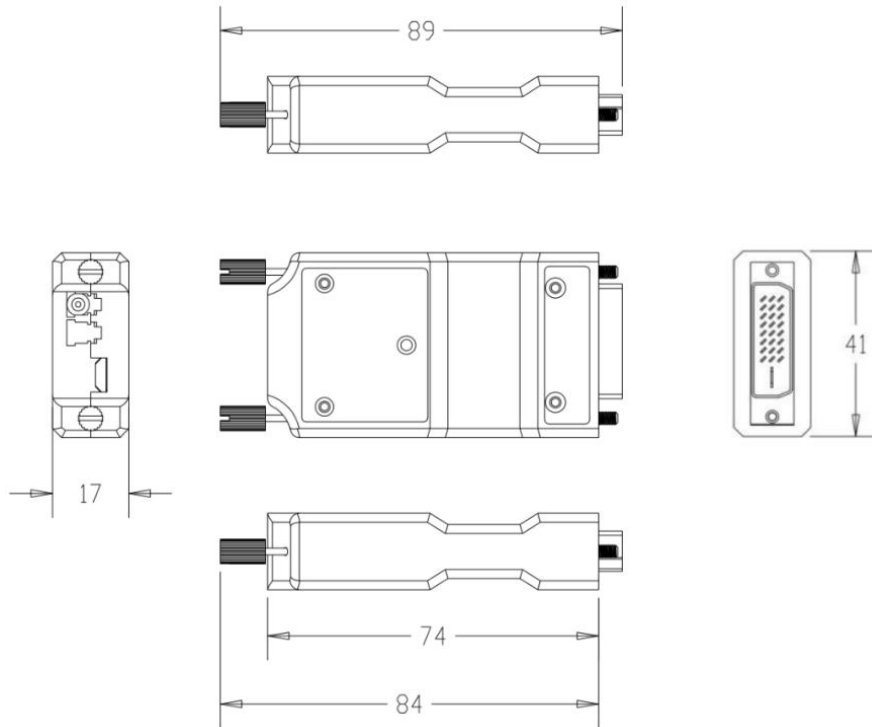
### ➤ Application

- Stage rental
- LED large screen
- LCD splicing large screen, LED splicing screen, projection fusion
- Radio and television and video recording
- Video conferencing
- Information release and display system
- Command and dispatch center

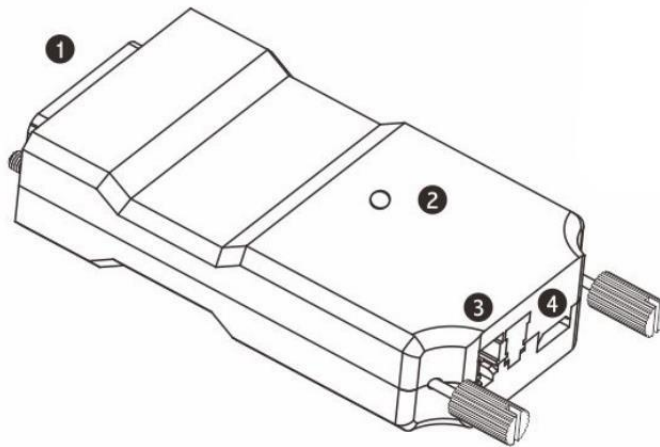
## ➤ Specification

<b>Fiber Optical</b>	
Wavelength	1310nm (dual fiber) 1310-1550nm (single fiber)
Rate	10Gbps
Tx power	> -3db
Rx sensitivity	> -10db
Fiber connector	LC
<b>DVI index</b>	
Specification	DVI-D (pure digital signal)
Version	DVI 1.0 (single-link)
Bandwidth	1.65GHz
Pixel clock	165MHz
Resolution	1920*1200@60Hz and downward compatibility
Physical interface	DVI 24+1 male type
<b>Power index</b>	
Power supply	5V
Power dissipation	< 1.5W
Physical interface	Micro-USB
<b>Other</b>	
Shell metal	Zine-alloy
Dimensions	89*41*17mm
Net weight	0.3KG
Way to install	Direct plug-in
Color	The gun color
Material of Packing	Kraft paper
Package size	210*160*46mm
Gross weight	0.5KG
Operating temperature	-20°C ~ +75°C
Storage temperature	-40°C ~ +85°C
Relative Humidity	0%~95% ( no condensation)
Warranty	3 Years

## ➤ Dimension



## Interface Description

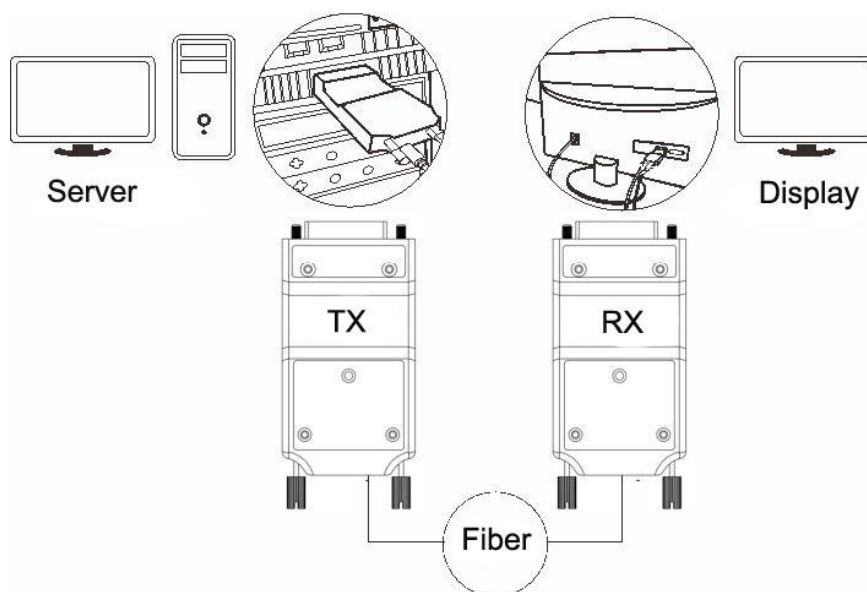


①	DVI 24 + 1 male
②	Status indicator light
③	LC fiber interface
④	Micro-USB power supply interface

## LED Status Description

Transmitter (T)			
Operating status	Powered up	Fiber signal	Video signal
Indicator light status	Red light	Red light	Purple light
Receiver (R)			
Operating status	Powered up	Fiber signal	Video signal
Indicator light status	Red light	Purple light	Purple light

## ➤ 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

- Mini DVI 1.0 Video Optical Converter \*1
- 5V USB charging head \*2
- Micro-USB cable \*2
- 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, including a transmitter and a receiver,and it is stated clearly on the label and printed on the chassis of the equipment.