SmartAVI

FDX-Mini

HD DVI-D, RS232 Fiber Optic Extender

User Manual v1.0

1. Description

The FDX-Mini fiber optic extender boosts DVI signals over long distances with a single fiber cable. With high definition resolutions up to 1080p, RS232 signal control and external audio transmission function, the FDX-Mini is perfect for wide range of applications where security and efficiency are essential.
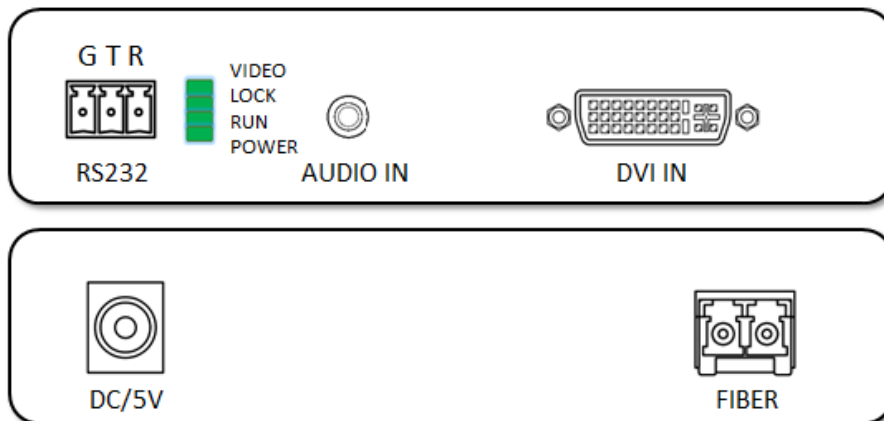
2. Features

- Transmit DVI signals 10km with one fiber optic cable;
- Resolutions up to 1080p (1920x1080@60Hz);
- Stereo audio support;
- RS232 control;
- DVI 1.0 and HDCP 1.2 standard compliant;
- Highly compatible, Automatic learning;
- Auto-enhanced and optimizes picture;
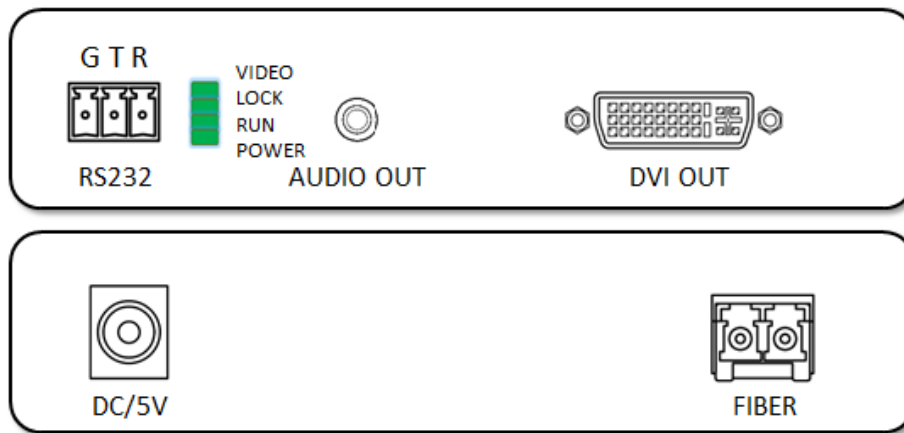- Secure design;
- Plug and play ready;

3. Specifications

	Parameter	Description
Video	Standards	DVI 1.0; HDCP 1.2
	Maximum pixel clock	165MHz
	Maximum data rate	6.75Gbps
	Resolution	1920*1080@60Hz 1920*1080@50Hz 1920*1080@30Hz 1920*1080@25Hz 1920*1080@24Hz 1080I@60Hz 1080I@50Hz 1280*720@60Hz 1280*720@50Hz
	Connector	DVI-D
	Impedance	100Ω
Audio	Interface	3.5mm earphone seat
	Signal type	Stereo
RS232	Interface	Industrial terminal
	Signal direction	Unidirectional
	Baud rate	Self-adaptive, Max：115200bps
	Data bits	8
Optical fiber	Interface	LC connector
	Fiber type	Single-mode single fiber
	Wavelength	Single-mode 1310nm
	Interface bandwidth	2.97Gbps
	Transmission distance	standard 10km
Other	Power supply	The power adapter: DC 5V-12V
	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
DVI IN/OUT	DVI signal input/output
Audio IN/OUT	Stereo audio signal input/output
RS232	Serial port(G: Ground, T: transmit, R: receive)
DC/5V	Power adapter socket
FIBER	SFP module---LC connector
LED indicator	**Description**
VIDEO	Video signal connection indicator
LOCK	Video signal lock indicator
RUN	System status indicator
POWER	System power indicator

5. Package list

- (1) FDX-Mini-TX transmitter
- (1) FDX-Mini-RX receiver
- (2) DC/5V Power Supply
- (1) User manual

6. Installation

1. Connect DC/5V power supplies to the transmitter and the receiver
2. Connect an DVI cable to the FDX-Mini-TX DVI input port and output port of the video source
3. Connect a DVI cable to FDX-Mini-RX output port and input port of video display
4. Connect a fiber cable between the TX optical port and the RX optical port

7. Diagram