

TVI/CVI/AHD/CVBS
Coaxial HD Fiber Video Converter

User Manual

1. Overview

TVI/CVI/AHD/CVBS Coaxial HD Fiber Video Converter is designed for long-distance optical fiber transmission of high-definition composite video. It adopts self-developed uncompressed digital photoelectric conversion technology to transmit megapixel HD video using fiber-optic point-to-point transmission, realize video transmission without delay and high reliability. A single fiber can transmit 1~64 channels of TVI/CVI/AHD/CVBS composite video at the same time. Support 1280H high-definition video format, support 1280 × 720 resolution, 25 frame rate, 1280H / 25f HD format.

2 · Features

Uncompressed technology

Automatically detect input signal

Supports video formats such as 720p/25hz, 720p/30hz, 720p/50hz, 720p/60hz, 1080p/25hz, 1080p/30hz

Display working status by LED light

Industrial temperature operating range

Support hot plugging, easy to install

3. Specifications

Video

Number of channels	16 forward
Video format	TVI/CVI/AHD/CVBS
Input level	0.5~2Vpp
Output level	1Vpp
DC restore (clamping)	75Ω
Bandwidth (-3 dB)	60MHz
Sampling resolution harmonic	10bit
Differential gain	< 1%
Differential phase	< 1°
SNR	>70 dB
Connector:	BNC
Impedance:	75 ohm

Data(optional)

Data interface	1 way RS232 data
Interface type	Industrial terminal (Phoenix terminal)

Interface signa	RS232
Data rate	DC-250Kbps
Data error rate	less than 10 ⁻⁹
Power	
Stand alone	DC48V AC100 to220V
Physical	
Stand alone	484*191*44 mm
Rack Mount	1U standard
Environmental	
Operating temperature range	-30° C to +40° C
Storage Temperature	-40° C to +85° C
Relative humidity	< 95% (non-condensing)
Power Consumption	5w
MTBF	> 100,000 hours
Optical	
Output wavelengths	Ordinary 1310nm, 1550nm or CWDM and DWDM wavelength. For ordinary 1310nm, 1550nm, wavelength could be ±25nm. It could not decide the product quality.
Fiber type	SM
Transmitter Output power	+3~-8dBm
Receiver Output power	+3~-8dBm ,No output If no data is sent from Receiver
Receiver sensitivity	-5 to -24dBm
Number of fiber	1
Connector type	FC/PC,SC/PC or ST/PC

4. Note

If any shortage or damage found, please contact us or contact our distributor in time.

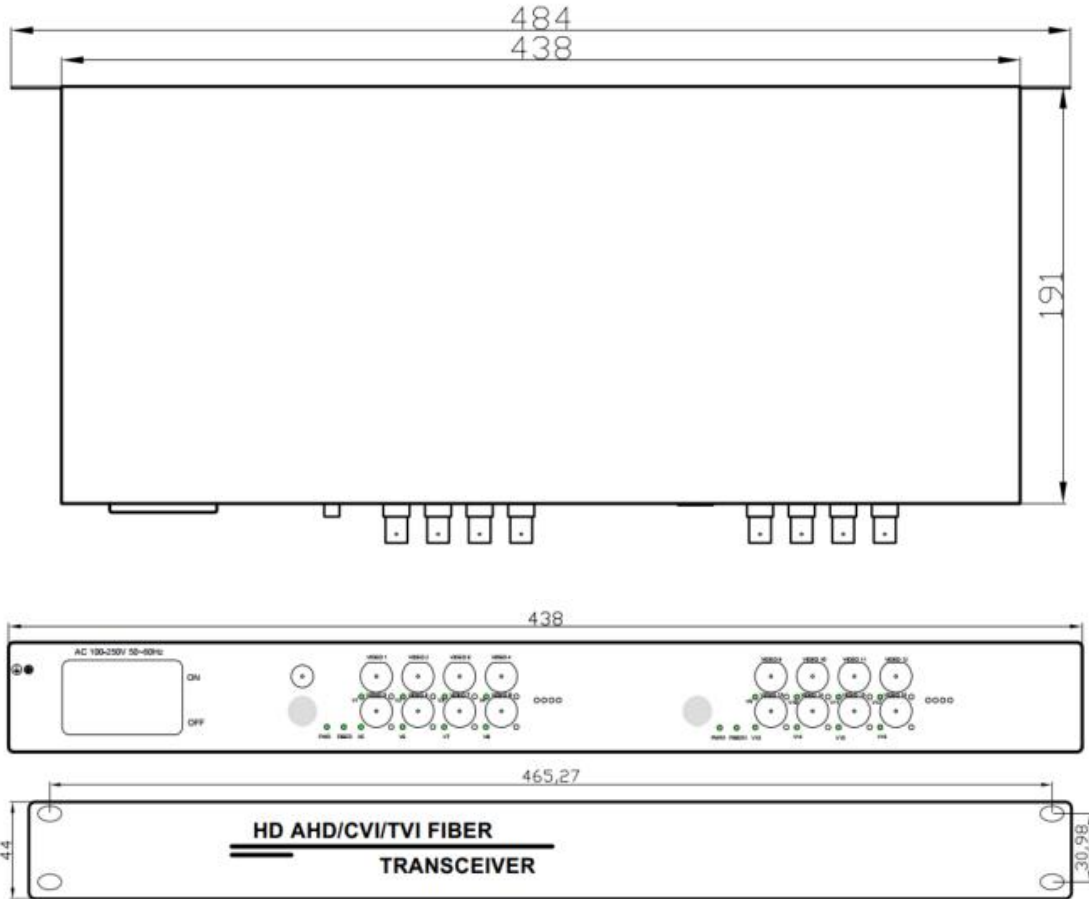
Procedure of Installation

- (1) Transmitter connect camera or other video output device. And connect with fiber. Then power device on.
- (2) Receiver connect display. And connect with fiber. Then power device on.
- (3) Responsibility instruction.
- (4) Customer will take the responsibility for the loss if returns/replacement is damaged during transportation.
- (5) Please contact us directly if devices are damaged during transportation from our side.
- (6) We'll not be responsible for the damage if devices are damaged with customers' own power supply.
- (7) Please use the power supply strictly as per the user manual.

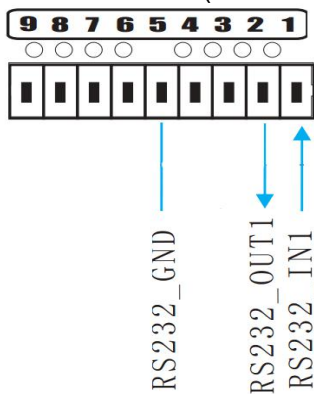
- (8) We'll not be responsible for anyone who amend the manual or add some features to our product. This may cause damage for other external devices.

5. Panel Connection

Front Panel



RS232 Definition (TX and RX is the same):



Explanation for LED Indicator Lamp

LED indicator lamps serve as device monitoring and trouble display.

The following is the explanation for each LED indicator lamp.

LED	Description
PWR	After power on ,pointing lights, cut off the power, lights off
FIBER	When the fiber optic is normal , RX LED will light on
V1 to V16	TX: when has signal input, light on RX: when fiber is normal , TX has signal input, light on

Warning

- (1) In order to save the loss, please read the following item carefully.
- (2) The product has a good reliability on original design. But still need avoid human damage.
- (3) Please read the instruction carefully, and keep it well.
- (4) Please keep the device away from water or other damp place.
- (5) Please don't cover anything on the wire of power supply and arrange it at safe place.
- (6) Please connect all part tightly, especially the powersupply unit with the socket.
- (7) When power devices on, please make sure the power supply you are using can meet the below request:

AC input: 110 ~ 260V

DC output: 5V

Please cut off the power and contact us with below situation.

- (1) Water ruin the Devices
- (2) Devices break(including the shell break)
- (3) Devices work abnormally
- (4) Gas ,smog or noise from equipment.

Do not repair the device on your own.Please arrange thunder protect device when install the product outdoor.

Warranty Policy

Under the promise of non-human factors, the product has any quality problems.

Responsible for returned products within a year.

Responsible for maintenance within three years.