Overview

Our digital fiber optic video transmitter can simultaneously transmit 1-128 channels of 8-bit or 10-bit digitally encoded video/return or bidirectional data/unidirectional or bidirectional audio / Ethernet / Telephone / binary input/output over one multimode or single-mode optical fiber. These multiplexers are typically used in applications where the cameras have P/T/Z capabilities. Plug and Play design ensures the ease of installation and operation. Electronic and optical adjustments are never required. LED indicators are provided for instantly monitoring system status. Devices are available for either standalone or rack-mount installation, which is suitable for different working environment .

Features

- 8-bit or 10-bit digitally encoded and non-compression video transmission
- Directly compatible with NTSC, PAL, and SECAM CCTV camera systems and support RS-232, RS-422, and RS-485 data protocols
- Power supply and other parameter state indication, which can monitor the operation condition of system
- Support no-damage regenerative trunk of video
- Constant input optical power, and large dynamic range, no electrical or optical adjustments required.
- Special ASIC design.
- Industry-grade of operating temperature from -10c to 75c , which is applied to the different working environment
- Hot-swap function
- Stand-alone type or card-type installed in 19” 2U or 4U rack-mount chassis.

Application

- City traffic monitoring system
- Police and safe city monitoring system
- High way security protection and toll station system
- Building and campus monitoring system
- Industrial monitoring(airport, chemical plant, steel, oil, railway, irrigation works, mine..)
- Military monitoring(storage, frontier defense, guard, national defense and so on)
- Electronic power oil field, TV station program broadcasting system
- Gymnasium(live video and audio transmission)

Specifications

Opitcal

Wavelength	1310nm&1470nm~1610nm
Output Power	-10~-3dBm / -3~+2dBm
Optic fiber	50/125u multimode 62.5/125u multimode 9/125u single mode
Rx sensitivity	-25dBm

Optical connector	FC ST SC（Optional)
Distance	0~2KM (MM) / 0~80KM (SM)

Video

Number of Channels	4
Input/output impedance	BNC 75Ω (unbalance)
Video bandwidth	5HZ—7.5MHZ
Video input/output voltage	1.0Vp-p
Video voltage range	0.6~2.0Vp-p
Differential Gain	< ±1.5%
Differential Phase	< ±1°
SNR	>60dB (8 bit) / >70dB (10 bit)
Connector	BNC

Data

Data protocol	RS232 RS422 RS485 Manchester, BIPHASE data
Data rate	0~ 200 Kbps
Error rate	$< 10^{-9}$
Connector	Standard terminal lead

Audio

Input/output Impedance	600ohm(unbalance)
Max input/output voltage	3.0Vp-p
Frequency Response	10 Hz-29kHz @±3dB
SNR	> 70dB
Connector	Standard terminal lead

Ethernet

Work mode	Full duplex/half duplex
Data Rate	10/100Mbps(AUTO)
connection terminal	RJ45

Telephone

Connector	Standard RJ11
Phonetic bandwidth	8KHz
Work mode	Point to point hot line, program controlling switch/extension mode
Distortion	<1%

Binary input/Output

Connector	Standard terminal lead
Signal input	Alarm, Binary input, support TTL、RS-232/422/485 or passive switch button
Signal output	Arbitrary alarm, Binary output, support TTL、RS-232/422/485 or relay output

Total Weight: 2kg/pair（with power and package）

Operating Voltage: DC 5V (Offer external power supply from AC100-240V to DC 5V)

Operating Temperature : -10℃~ +75℃

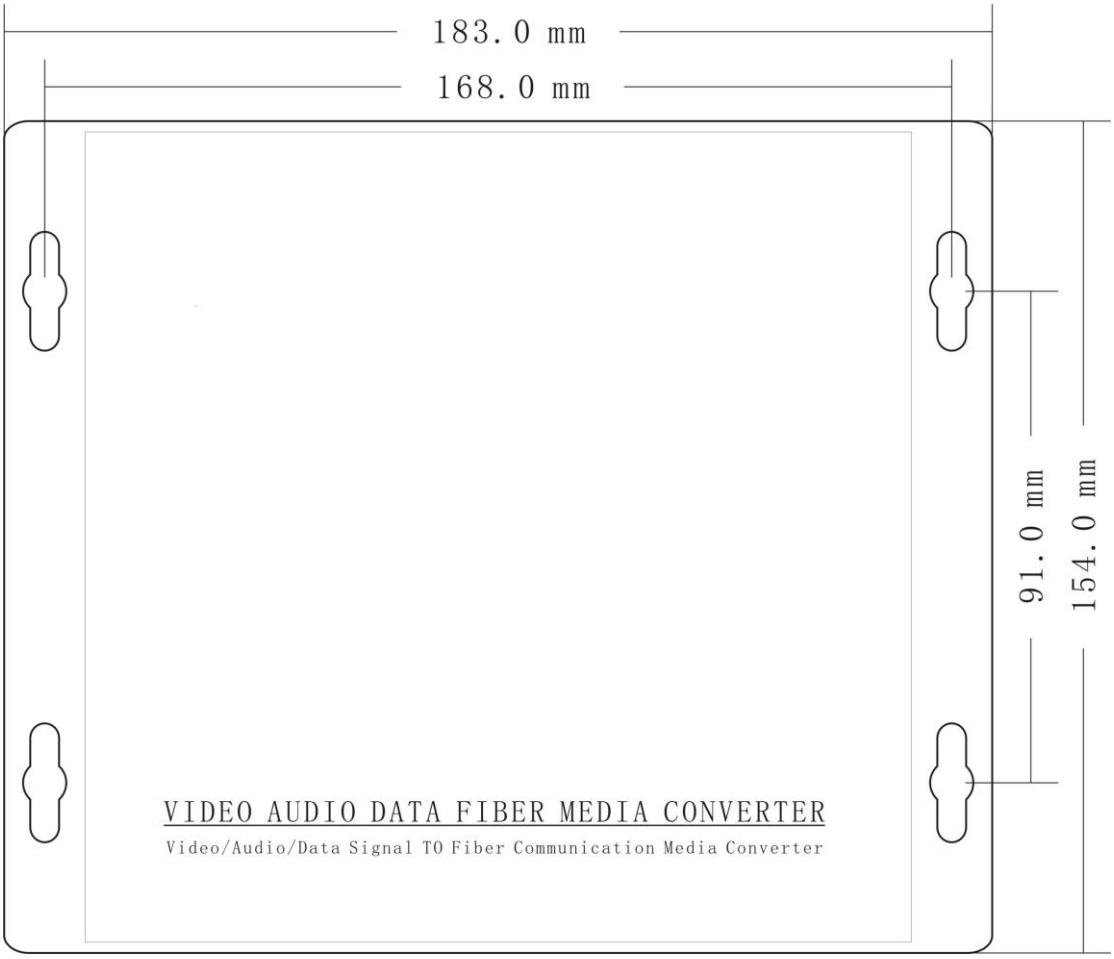
Storing Temperature : -40℃~ +85℃

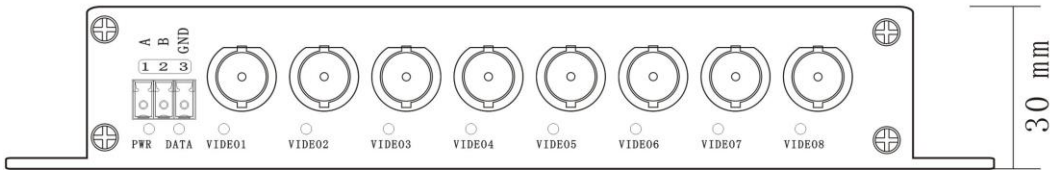
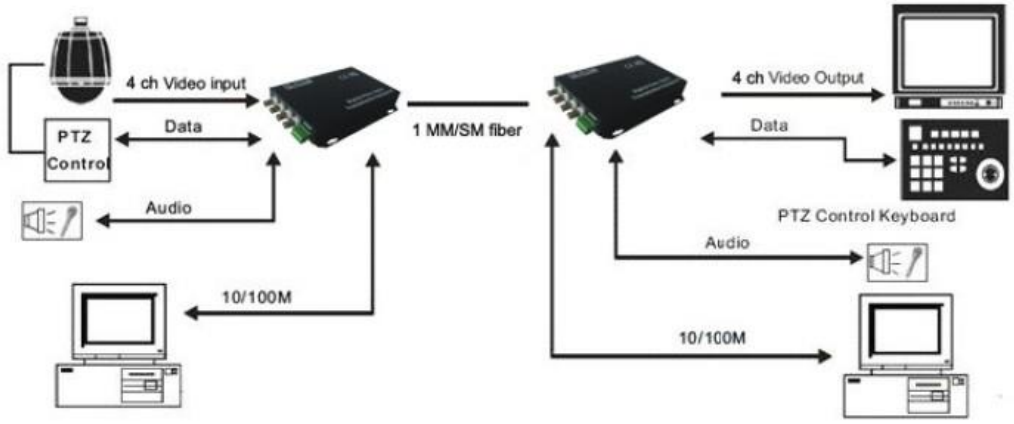
Humidity : 0~95% Non-condensing

MTBF : ≥ 100000Hours

Warranty : 3 years

Standalone Dimensions:





System design: