

Overview



Transmitter

Receiver

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

Optical

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)

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Video

Number of Channels	1
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	RS485 Manchester, BIPHASE data
Data rate	0~ 200 Kbps
Error rate	< 10 ⁻⁹
Connector	Standard terminal lead

Operating Voltage: DC 12V for transmitter, DC 5V for receiver

Operating Temperature : -10°C~ +75°C

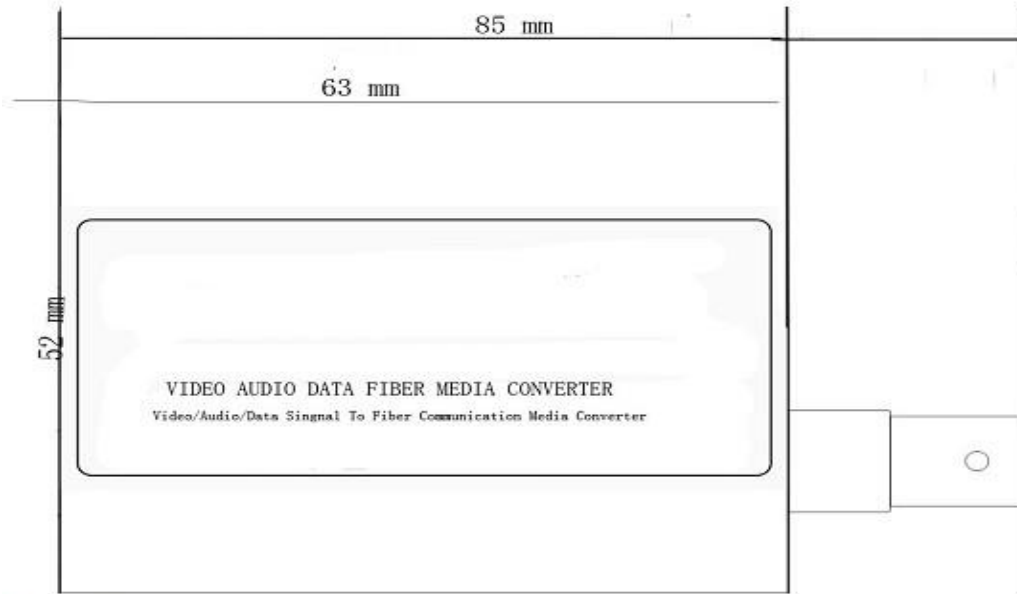
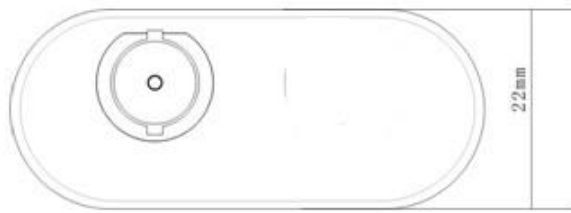
Storing Temperature : -40°C~ +85°C

Humidity: 0~95% Non-condensing

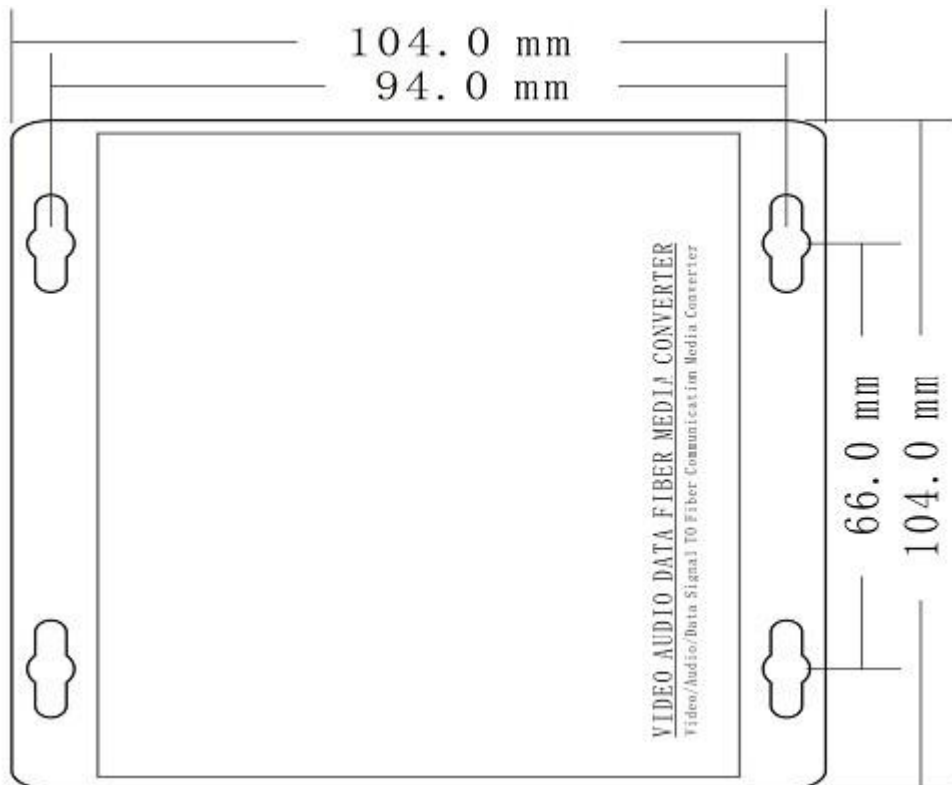
MTBF : ≥ 100000Hours

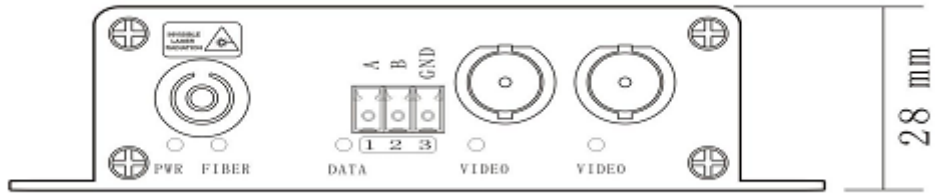
Warranty: 3 years

Standalone Dimensions:



Transmitter





Receiver

System design:

