

Fiber Optic Video & Data Transmission for PTZ Cameras 2-Channel Video + 1 Return Rs485 Data over Fiber

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Video

System Design

Fiber Optic Video & Data Transmitter & Receiver
VOS-2010FBT/R can transmission 2-Channel digital composite video and 1 return rs485 data. It is designed for PTZ cameras.

Stand-alone or rack-mount. All units of VOS-2010FBT/R come in an insert card version. The cards can be inserted into our 14-slot, 19inch 4U or 6U rack-mountable card cage (VOS-CH04 or VOS-CH06).

Audio

← 1

Data

Single-Mode or Multi-Mode, VOS-2010FBT/R can support FC/PC or ST/PC Optical connector, can be used in Daisy-Chain system (Need to customize). The Transmission distance range according to the Optical Budget. Manufacturer's standard is: Single-mode 20km or Multi-mode 2km.

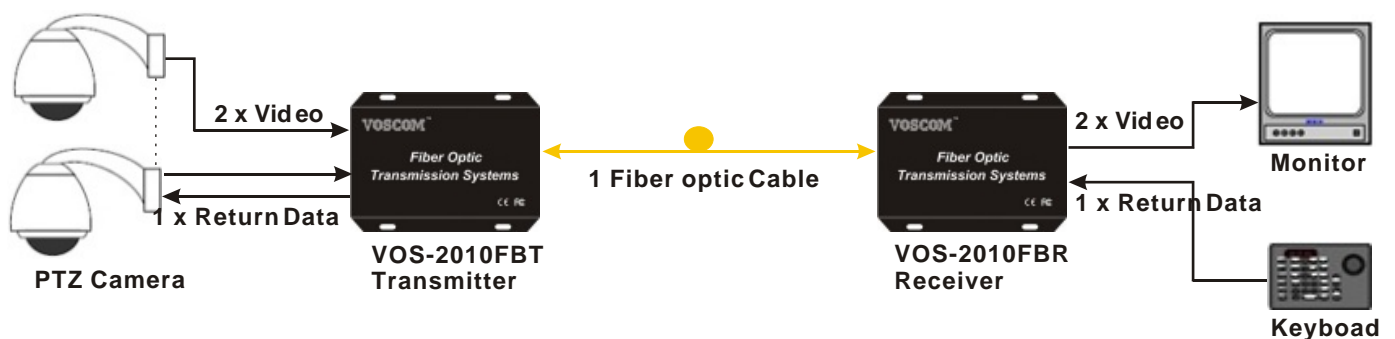


Ethernet

Features

- Support Point-to-Point or Daisy-Chain connection
- Uncompressed Digital Composite Video over one fiber
- Compatible with all PAL, NTSC, SECAM Video Systems
- Multi-mode Fiber Support for Distances up to 2.0 km
- Single-Mode Fiber Support for Distances up to 100 km
- LED Status Provide Rapid Indication of Operating Parameters
- No EMI or RFI and no ground loops
- Stand alone or rack-mount
- Produce according to customer's specifications, providing OEM

Typical Configuration



Video & Data over Fiber

Ordering Information

| Model Number | | Fiber Mode | Wavelengths | Optical Power Budget | Maximum Transmission Distance |
|----------------|----------------|-------------|---------------|----------------------|-------------------------------|
| Transmitter | Receiver | | | | |
| VOS-2010FBMT | VOS-2010FBMR | Multi-Mode | 1310nm/1550nm | 16dB | 2km |
| VOS-2010FBST | VOS-2010FBSR | Single-Mode | 1310nm/1550nm | 12dB | 20km |
| VOS-2010FBST-4 | VOS-2010FBSR-4 | Single-Mode | 1310nm/1550nm | 18dB | 40km |
| VOS-2010FBST-6 | VOS-2010FBSR-6 | Single-Mode | 1310nm/1550nm | 25dB | 60km |

Note:

- The Optical Power Budget data fit Multi-mode(62.5/125 μ m), Single-Mode(9/125 μ m).
- When using 50/125 μ m multimode fiber, subtract 3 dB from the optical power budget.
- Optical transmission distance is limited to optical loss of the fiber and any additional loss introduced by connectors, splices and patch panels.
- Maximum transmission distance is also limited by fiber bandwidth.
- Power adapter is manufactured by third party and is supplied with fitted screw-terminal output cables. Power adapter included (for standalone) US, European, UK or Australian power plug.
- Please feel free to consult factory for any special requirement and customization

Specification

| | |
|---|---|
| <ul style="list-style-type: none"> • Video | <ul style="list-style-type: none"> • Connectors |
| Number of Channels: 2-Channel Video Input/output impedance: BNC 75 Ω Input/output Compatibility: PAL, NTSC, SECAM Input/output voltage: 1.0 Volt p-p Bandwidth: 6.5MHZ Bit Resolution: 8-Bit Digital Transmission Differential Gain: < 1.5% Differential Phase: < 1.5° Tilt: < 5% Signal-to-Noise Ratio(SNR): > 67 dB | Video: 75 Ω BNC (Gold Center Pin) Data: Terminal Block Optical: FC/PC or ST/PC Optional Stand-Alone Power: Screw terminal block Rack Power: AC line cord |
| <ul style="list-style-type: none"> • Data | <ul style="list-style-type: none"> • Electrical & Mechanical |
| Data Formats: Rs485 Data Rate: DC to 115.2Kbps Bit Error Rate: 10E-9 | Input Power Requirements: DC 5V@2A Power Adapter: AC 100V~240V Power Consumption: < 3W Stand-Alone Dimensions: 142mm \times 107mm \times 25mm Card for 4U Rack Dimensions: 145mm \times 170mm \times 20mm Shipping Weight: 1.8kg (include TX & RX) |
| | <ul style="list-style-type: none"> • Environmental |
| | Operating Temperature: -45° C~+75° C Storage Temperature: -45° C~+85° C Relative Humidity: 0%~95% (non-condensing) MTBF: >100,000 hours |