Voscom

Fiber Optic Video & Data Transmission for PTZ Cameras 1-Channel Video + 1 Duplex Data over Fiber



System Design

Fiber Optic Video & Data Transmitter & Receiver VOS-1010FDT/R can transmission 1-Channel digital composite video and 1 duplex data, the data support RS485, RS232, RS422 protocols. It is also designed for applications that require control of PTZ cameras.



Stand-alone or rack-mount. All units of VOS-1010FDT/R come in an insert card version. The cards can be inserted into our 14-slot, 19inch 2U, 4u or 6U rack-mountable card cage (VOS-CH02, VOS-CH04 or VOS-CH06).

Single-Mode or Multi-Mode, VOS-1010FDT/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.

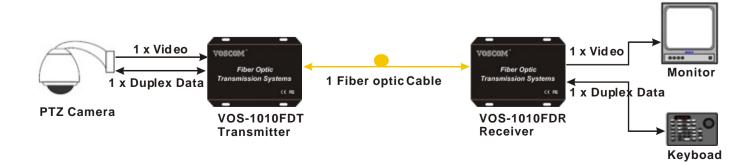




Features

- Support Point-to-Point or Daisy-Chain connection
- Uncompressed Digital Composite Video over one fiber
- Compatible with all PAL, NTSC, SECAM Video Systems
- Data support RS485(2-wire or 4-wire), RS232, RS422, Contact Closure
- 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

Typical Configuration



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Video & Data over Fiber

Ordering Information

Model Number		Fiber Mode	Wavelengths	Optical Power	Maximum Transmission
Transmitter	Receiver		3 1	Budget	Distance
VOS-1010FDMT	VOS-1010FDMR	Multi-Mode	1310nm/1550nm	16dB	2km
VOS-1010FDST	VOS-1010FDSR	Single-Mode	1310nm/1550nm	12dB	20km
VOS-1010FDST-4	VOS-1010FDSR-4	Single-Mode	1310nm/1550nm	18dB	40km
VOS-1010FDST-6	VOS-1010FDSR-6	Single-Mode	1310nm/1550nm	25dB	60km

Note:

- The Optical Power Budget data fit Mulit-mode (62.5/125 µm), Single-Mode (9/125 µm).
- When using 50/125 µm 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

•	Video

Number of Channels: 1-Channel Video

Input/output impedance: BNC 75Ω

Input/output Compatibility: PAL, NTSC, SECAM

Input/output voltage: 1.0 Voltp-p

Bandwidth: 6.5MHZ

Bit Resolution: 8-Bit Digital Transmission

Differential Gain: < 1.5% Differential Phase: < 1.5°

nase: < 1.5° Tilt: < 5%

Signal-to-Noise Ratio(SNR): > 67 dB

• Data

Data Formats: RS485(2-wire or 4-wire),

RS232/422, Contact Closure

Data Rate: DC to 115.2Kbps

Bit Error Rate: 10E-9

Connectors

Video: 75 Ω BNC (Gold Center Pin)

Data: 3 Pin Terminal Block
Optical: FC/PC or ST/PC Optional

Stand-Alone Power: Screw terminal block

Rack Power: AC line cord

• Electrical & Mechanical

Input Power Requirements: DC 5V@2A

Power Adapter: AC 100V~240V

Power Consumption: < 3W

 $\begin{array}{lll} Stand-Alone \ Dimensions: & 95mm \times 70mm \times 25mm \\ Card \ for \ 2U \ Rack \ Dimensions: & 95mm \times 70mm \times 25mm \\ Card \ for \ 4U \ Rack \ Dimensions: & 145mm \times 170mm \times 20mm \end{array}$

Shipping Weight: 1.2kg (include TX & RX)

Environmental

Operating Temperature: -45° C $\sim +75^{\circ}$ C Storage Temperature: -45° C $\sim +85^{\circ}$ C

Relative Humidity: 0%~95% (non-condensing)

MTBF: >100,000 hours

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