

Fiber Optic Video & Data Transmission for PTZ Cameras 4-Channel Composite Video + 1 Bi-Direction Data

4 →
Video

System Design

Fiber Optic Video & Data Transmitter & Receiver

VOS-4010FDT/R can transmission 4-Channel digital composite video and 1 bi-direction data, the data support RS485,RS232,RS422 protocols. It is also designed for applications that require control of *PTZ cameras*.



Audio

Stand-alone or rack-mount. All units of VOS-4010FDT/R come in an insert card version. The cards can be inserted into our 14-slot, 19inch 4U rack-mountable card cage (VOS-CH04).

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Data

Single-Mode or Multi-Mode, VOS-4010FDT/R only can support FC , ST Optical connector, can be used in Daisy-Chain system (Need to customize). The Transmission distance range according to the Optical Budget.



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
- Data support RS485(2-wire or 4-wire),RS232,RS422, Contact Closure
- Multi-mode Fiber Support for Distances up to 1.5 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
- Support Coarse Wavelength Division Multiplexing (CWDM)
- Stand alone or rack-mount
- Produce according to customer's specifications,providing OEM

Typical Configuration



Fiber Optic Video & Data

Ordering Information

Model Number		Fiber Mode	Wavelengths	Optical Power Budget	Maximum Transmission Distance
Transmitter	Receiver				
VOS-4010FDMT	VOS-4010FDMR	Multi-Mode	850nm/1310nm	12dB	1.5km
VOS-4010FDST	VOS-4010FDSR	Single-Mode	1310nm/1550nm	12dB	20km
VOS-4010FDST-4	VOS-4010FDSR-4	Single-Mode	1310nm/1550nm	18dB	40km
VOS-4010FDST-6	VOS-4010FDSR-6	Single-Mode	1310nm/1550nm	25dB	60km

Note:

- The Optical Power Budget data fit Multit-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
<ul style="list-style-type: none"> Number of Channels: 4-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 	<ul style="list-style-type: none"> Video: 75 Ω BNC Data: RJ-45 Optical: FC , ST 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
<ul style="list-style-type: none"> Data Formats: RS485(2-wire or 4-wire), RS232/422,Contact Closure Data Rate: DC to 115.2Kbps Bit Error Rate: 10E-9 	<ul style="list-style-type: none"> Input Power Requirements: DC 5V@3A Power Adapter: AC 100V~240V Power Consumption: < 5W Stand-Alone Dimensions: 176.5mm \times 158mm \times 36mm Card for 4U Rack Dimensions: 145mm \times 170mm \times 20mm Shipping Weight: 2.2kg (include TX & RX)
	<ul style="list-style-type: none"> • Environmental
	<ul style="list-style-type: none"> Operating Temperature: -45° C ~ +75° C Storage Temperature: -45° C ~ +85° C Relative Humidity: 0%~95% (non-condensing) MTBF: >100,000 hours