

### Fiber Optic Video & Data Transmission for PTZ Camera 1-Channel Video + 1 Return Data over Fiber

1 →  
Video

#### System Design

Fiber Optic Video & Data Transmitter & Receiver  
VOS-1010FBT/R can transmission 1-Channel digital composite video and 1 return 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-1010FBT/R come in an insert card version. The cards can be inserted into our 14-slot, 19inch 2U or 4U rack-mountable card cage (VOS-CH02 or VOS-CH04).

← 1  
Data

Single-Mode or Multi-Mode, VOS-1010FBT/R only can support FC /PC Optical connector, can be used in Daisy-Chain system (Need to customize). The Transmission distance range according to the Optical Budget.

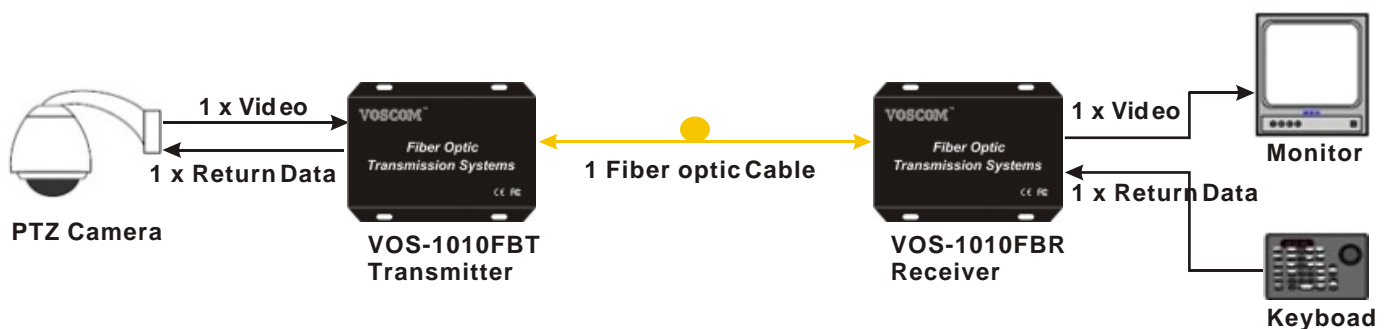


Ethernet

#### 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 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
- Support Coarse Wavelength Division Multiplexing (CWDM)
- 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-1010FBMT	VOS-1010FBMR	Multi-Mode	1310nm/1550nm	16dB	2km
VOS-1010FBST	VOS-1010FBSR	Single-Mode	1310nm/1550nm	12dB	20km
VOS-1010FBST-4	VOS-1010FBSR-4	Single-Mode	1310nm/1550nm	18dB	40km
VOS-1010FBST-6	VOS-1010FBSR-6	Single-Mode	1310nm/1550nm	25dB	60km

### Note:

- The Optical Power Budget data fit Multi-mode(62.5/125  $\mu$  m), Single-Mode(9/125  $\mu$  m).
- When using 50/125  $\mu$  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"> <li>• Video</li> </ul>	<ul style="list-style-type: none"> <li>• Connectors</li> </ul>
Number of Channels: 1-Channel Video Input/output impedance: BNC 75 $\Omega$ 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 $\Omega$ BNC (Gold Center Pin) Data: 3 Pin Terminal Block Optical: FC (standard) Stand-Alone Power: Screw terminal block Rack Power: AC line cord
<ul style="list-style-type: none"> <li>• Data</li> </ul>	<ul style="list-style-type: none"> <li>• Electrical &amp; Mechanical</li> </ul>
Data Formats: RS485(2-wire or 4-wire), RS232/422, Contact Closure 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: 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 Shipping Weight: 1.2kg (include TX & RX)
	<ul style="list-style-type: none"> <li>• Environmental</li> </ul>
	Operating Temperature: -45° C ~ +75° C Storage Temperature: -45° C ~ +85° C Relative Humidity: 0% ~ 95% (non-condensing) MTBF: >100,000 hours

Due to continuous improvement, all products specifications are subject to change without further notice.  
 Contact us for custom requirements. E-mail: [Sales@voscom.com](mailto:Sales@voscom.com) Website: [www.voscom.com](http://www.voscom.com)