

### 10-Bit Digitally Encoded Fiber Optic Video Transmission 1-Channel Composite Video & 1 Return Data over Fiber

1 →  
Video

#### System Design

10-Bit Digitally Encoded Video Transmitter & Receiver  
VOS-1010FBT/R-10B can transmission 1-Channel 10-Bit Digitally Encoded broadcast quality video and one return data that delivers a sharper image with better color quantification and faster, more efficient codecs. The data support RS485, RS232, RS422 protocols. It is designed for applications that require control of PTZ cameras.



Audio

Stand-alone or rack-mount. All units of VOS-1010FBT/R-10B come in an insert card version. The cards can be inserted into our 14-slot, 19inch 4U rack-mountable card cage (VOS-CH04).

← 1  
Data

Single-Mode or Multi-Mode, VOS-1010FBT/R-10B can support FC or ST Optical connector, can be used in Daisy-Chain system (Need to customize). The Transmission distance range according to the Optical Budget.

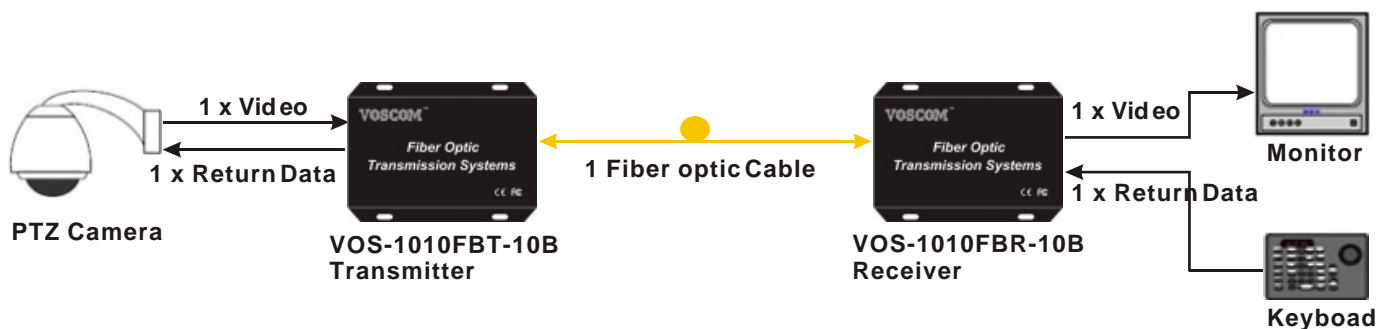


Ethernet

#### Features

- 10-Bit Digitally Encoded Video Transmission
- Support Point-to-Point or Daisy-Chain connection
- 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



# 10-Bit Digitally Encoded Video

## Ordering Information

Model Number		Fiber Mode	Wavelengths	Optical Power Budget	Maximum Transmission Distance
Transmitter	Receiver				
VOS-1010FBMT-10B	VOS-1010FBMR-10B	Multi-Mode	1310nm/1550nm	16dB	2km
VOS-1010FBST-10B	VOS-1010FBSR-10B	Single-Mode	1310nm/1550nm	12dB	20km

### 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: 10-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), ST Optional 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@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: 2.0kg (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)