

10-Bit Digitally Encoded Fiber Optic Video Transmission 8-Channel Composite Video & 1 Return Data over Fiber

8
Video

System Design

10-Bit Digitally Encoded Video Transmitter & Receiver
VOS-8010FBT/R-10B can transmission 8-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

1
Data

Stand-alone or rack-mount. All units of VOS-8010FBT/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). One 8-Channel video card require two slots widths.



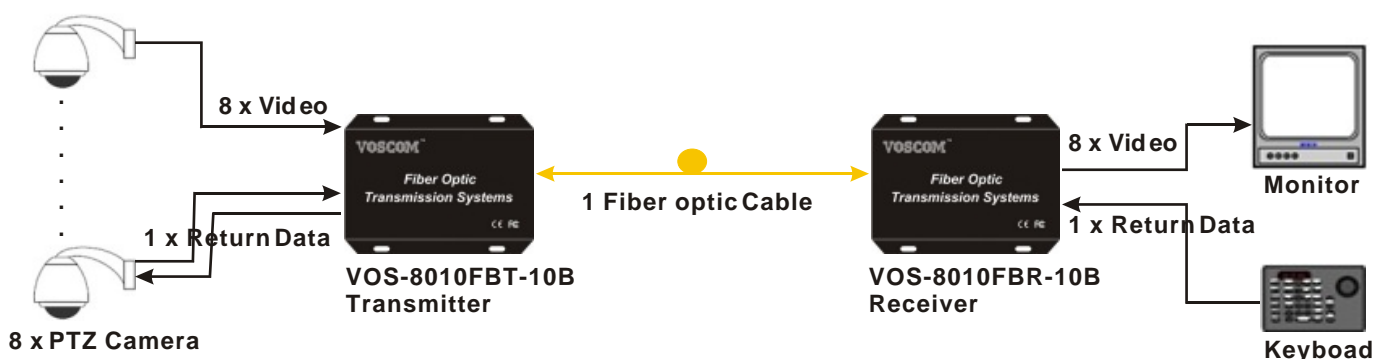
Ethernet

Single-Mode or Multi-Mode, VOS-8010FBT/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.

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 1.2 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-8010FBMT-10B	VOS-8010FBMR-10B	Multi-Mode	1310nm/1550nm	10dB	1.2km
VOS-8010FBST-10B	VOS-8010FBSR-10B	Single-Mode	1310nm/1550nm	12dB	20km

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
<ul style="list-style-type: none"> Number of Channels: 8-Channel Video Input/output impedance: BNC 75Ω 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 	<ul style="list-style-type: none"> Video: 75Ω 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"> • 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 59mm Card for 4U Rack Dimensions: 145mm \times 170mm \times 45.4mm Shipping Weight: 2.5kg (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

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