

10-Bit Digitally Encoded Fiber Optic Video Transmission 16-Channel Composite Video & 1 Return Data

16
Video

System Design

10-Bit Digitally Encoded Fiber Optic Video Transmitter & Receiver VOS-16010FBT/R-10B can transmission 16-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 also designed for applications that require control of *PTZ cameras*.



Audio

1
Data

Stand-alone or rack-mount. All units of VOS-16010FBT/R-10B come in an insert card version. The cards can be inserted into our 14-slot,19inch 10U rack-mountable card cage (VOS-CH10).



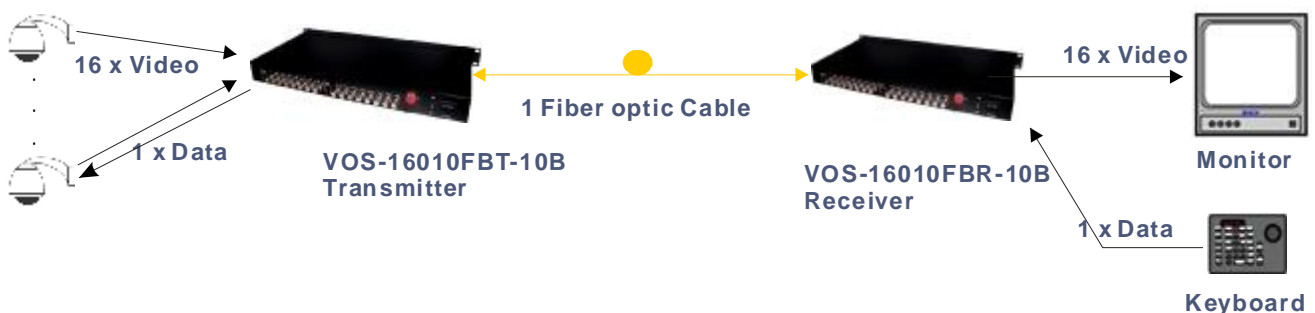
Single-Mode or Multi-Mode, VOS-16010FBT/R-10B can support FC or ST Optical connector, can be used in Daisy-Chain system (Need to customize). The Transmission distance range according to the Optical Budget.

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 1.0 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 Video Transmission

Ordering Information

Model Number		Fiber Mode	Wavelengths	Optical Power Budget	Maximum Transmission Distance
Transmitter	Receiver				
VOS-16010FBMT-10B	VOS-16010FBMR-10B	Multi-Mode	850nm/1310nm	10dB	1.0km
VOS-16010FBST-10B	VOS-16010FBSR-10B	Single-Mode	1310nm/1550nm	12dB	20km

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: 16-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: 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: 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@4A Power Adapter: AC 100V~240V Power Consumption: < 10W Stand-Alone Dimensions: 483mm \times 250mm \times 44.5mm Card for 4U Rack Dimensions: 452mm \times 250mm \times 40mm Shipping Weight: 6.0kg (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