

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

#### 1 → Video

#### System Design

10-Bit Digitally Encoded Video Transmitter & Receiver  
VOS-1000FT/R-10B can transmission 1-Channel 10-Bit Digitally Encoded broadcast quality video that delivers a sharper image with better color quantification and faster, more efficient codecs. It is also designed for Fixed cameras.

#### Audio

Stand-alone or rack-mount. All units of VOS-1000FT/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).

#### Data

Single-Mode or Multi-Mode, VOS-1000FT/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.

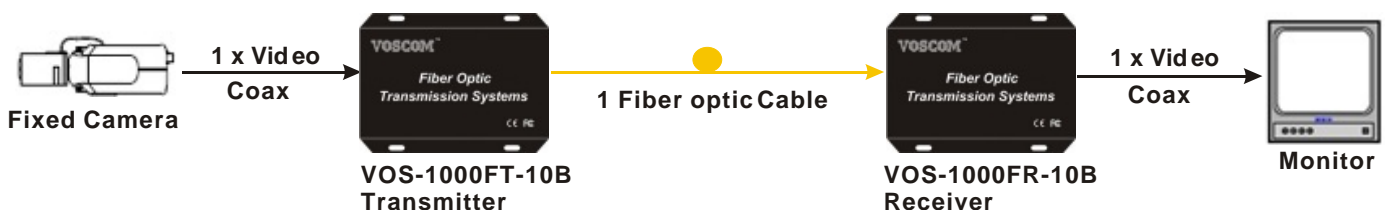
#### Ethernet

#### Features

- 10-Bit Digitally Encoded Video Transmission
- Support Point-to-Point or Daisy-Chain connection
- Compatible with all PAL, NTSC, SECAM Video Systems
- 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-1000FMT-10B	VOS-1000FMR-10B	Multi-Mode	1310nm	16dB	2km
VOS-1000FST-10B	VOS-1000FSR-10B	Single-Mode	1310nm	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) Optical: FC (standard), ST Optional Stand-Alone Power: Screw terminal block Rack Power: AC line cord
	<ul style="list-style-type: none"> <li>• Electrical &amp; Mechanical</li> </ul>
	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)