# VOBCOM

## VOS-10101FDET/R

### Fiber Optic Video & Data Transmission 1-Channel Video + 1 Duplex Data + IP Ethernet



#### System Design

(VOS-CH04 or VOS-CH06).

Fiber Optic Video & Data Transmitter & Receiver VOS-10101FDET/R can transmission 1-Channel digital composite video, 1 duplex data, and 10M/100M Ethernet, Data support RS485, RS232, RS422 protocols. Ideal for Broadcast/Studio,CCTV and Professional AV applications.

Audio



Single-Mode or Multi-Mode, VOS-10101FDET/R can support FC /PC or ST/PC Optical connector, can be used in Daisy-Chain system (Need to customize). The Transmission distance range according to the Optical Budget. Manufacturer's standard is: Single-mode 20km or Multi-mode 2km.

Stand-alone or rack-mount. All units of VOS-10101FDET/R come in an insert card version. The cards can be inserted into our 14-slot, 19inch 4U or 6U rack-mountable card cage

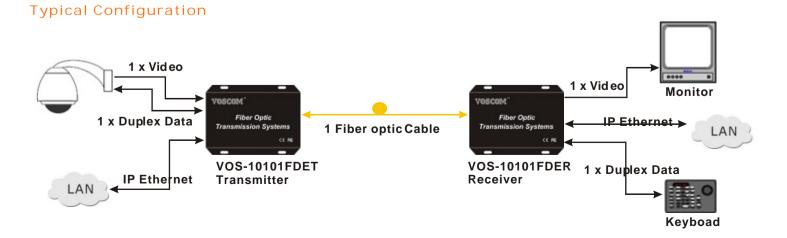






#### Features

- Support Point-to-Point or Daisy-Chain connection
- Uncompressed Digital Composite Video over one fiber
- Data support RS485(2-wire or 4-wire), RS232, RS422, Contact Closure
- 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
- Stand alone or rack-mount



#### Ordering Information

Model Number		Fiber Mode	Wavelengths	Optical Power	Maximum Transmission
Transmitter	Receiver	Tibel Mode	waverengtits	Budget	Distance
VOS-10101FDEMT	VOS-10101FDEMR	Multi-Mode	1310nm/1550nm	16dB	2km
VOS-10101FDEST	VOS-10101FDESR	Single-Mode	1310nm/1550nm	12dB	20km
VOS-10101FDEST-4	VOS-10101FDESR-4	Single-Mode	1310nm/1550nm	18dB	40km
VOS-10101FDEST-6	VOS-10101FDESR-6	Single-Mode	1310nm/1550nm	25dB	60km

#### Note:

• The Optical Power Budget data fit Mulit-mode(62.5/125 µm), Single-Mode(9/125 µm).

- 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

• Video		Connectors		
Input/output impedance: Input/output Compatibility: Input/output voltage: Bandwidth: Bit Resolution: Differential Gain:	Number of Channels:1-Channel VideoInput/output impedance:BNC 75ΩInput/output Compatibility:PAL, NTSC, SECAMInput/output voltage:1.0 Volt p-pBandwidth:6.5MHZBit Resolution:8-Bit Digital TransmissionDifferential Gain:< 1.5%	Data: Optical:	75Ω BNC (Gold Center Pin) Terminal Block FC/PC or ST/PC Optional Screw terminal block AC line cord	
		• Electrical & Mechanical		
		Input Power Requirements: Power Adapter:		
• Data		Power Consumption: Stand-Alone Dimensions:	< 3W 142mm × 107mm × 25mm	
	RS485(2-wire or 4-wire), RS232/422,Contact Closure DC to 115.2Kbps 10E-9	Card for 4U Rack Dimensions: Shipping Weight:	145mm × 170mm × 20mm 1.8kg (include TX & RX)	
Bit Error Rate:		• Environmental		
• Ethernet/IP		Operating Temperature: Storage Temperature:		
Data Rate:	Ethernet IEEE 802.3 10/100 Mbps RJ-45,Auto MDI/MDI-X	Relative Humidity:	0%~95% (non-condensing) >100,000 hours	