

### Fiber Optic Video & Data Transmission for PTZ Cameras 8-Channel Video + 4 Duplex Data over Fiber

8 →

Video

#### System Design

Fiber Optic Video & Data Transmitter & Receiver  
VOS-8040FDT/R can transmission 8-Channel digital composite video and 4 duplex data, the data support RS485, RS232, RS422 protocols. It is also designed for applications that require control of PTZ cameras.

Audio

Stand-alone or rack-mount. All units of VOS-8040FDT/R 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.

← 4 →

Data

Single-Mode or Multi-Mode, VOS-8040FDT/R only can support FC, ST Optical connector, can be used in Daisy-Chain system (Need to customize). The Transmission distance range according to the Optical Budget.

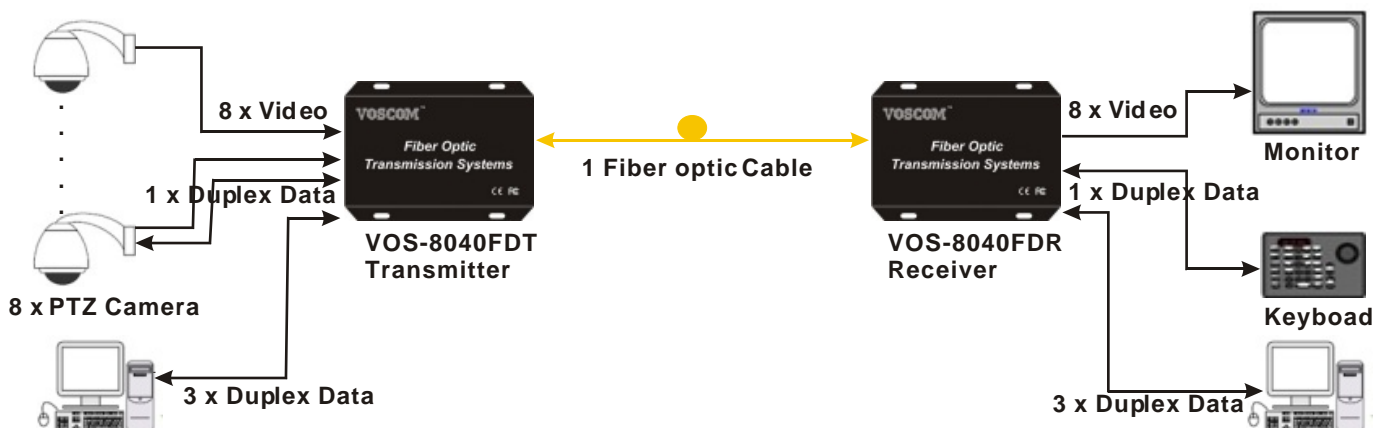


Ethernet

#### Features

- Support Point-to-Point or Daisy-Chain connection
- Uncompressed Digital Composite Video over one fiber
- 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



# Video & Data over Fiber

## Ordering Information

| Model Number   |                | Fiber Mode  | Wavelengths   | Optical Power Budget | Maximum Transmission Distance |
|----------------|----------------|-------------|---------------|----------------------|-------------------------------|
| Transmitter    | Receiver       |             |               |                      |                               |
| VOS-8040FDMT   | VOS-8040FDMR   | Multi-Mode  | 131nm/1550nm  | 10dB                 | 1.2km                         |
| VOS-8040FDST   | VOS-8040FDSR   | Single-Mode | 1310nm/1550nm | 12dB                 | 20km                          |
| VOS-8040FDST-4 | VOS-8040FDSR-4 | Single-Mode | 1310nm/1550nm | 18dB                 | 40km                          |
| VOS-8040FDST-6 | VOS-8040FDSR-6 | Single-Mode | 1310nm/1550nm | 25dB                 | 60km                          |

### 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: 8-Channel Video<br>Input/output impedance: BNC 75 $\Omega$<br>Input/output Compatibility: PAL, NTSC, SECAM<br>Input/output voltage: 1.0 Volt p-p<br>Bandwidth: 6.5MHZ<br>Bit Resolution: 8-Bit Digital Transmission<br>Differential Gain: < 1.5%<br>Differential Phase: < 1.5°<br>Tilt: < 5%<br>Signal-to-Noise Ratio(SNR): > 67 dB | Video: 75 $\Omega$ BNC (Gold Center Pin)<br>Data: Terminal Block or RJ-45<br>Optical: FC (standard), ST Optional<br>Stand-Alone Power: Screw terminal block<br>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<br>Data Rate: DC to 115.2Kbps<br>Bit Error Rate: 10E-9  | Input Power Requirements: DC 5V@3A<br>Power Adapter: AC 100V~240V<br>Power Consumption: < 5W<br>Stand-Alone Dimensions: 176.5mm $\times$ 158mm $\times$ 59mm<br>Card for 4U Rack Dimensions: 145mm $\times$ 170mm $\times$ 45.4mm<br>Shipping Weight: 2.5kg (include TX & RX) |
|   | <ul style="list-style-type: none"> <li>• Environmental</li> </ul>   |
|   | Operating Temperature: -45° C ~ +75° C<br>Storage Temperature: -45° C ~ +85° C<br>Relative Humidity: 0%~95% (non-condensing)<br>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)