

## Description

Waveform Digital Video Optical can simultaneously transmit 4 channels of 8-bit digitally encoded video / return or bidirectional data / unidirectional or bidirectional audio / Ethernet / Telephone / Dry contact over one multimode or single-mode optical fiber. These multiplexers are typically used in applications where the cameras have P/T/Z capabilities. Plug and Play design ensures the ease of installation and operation. Electronic and optical adjustments are never required. LED indicators are provided for instantly monitoring system status. Devices are available for either standalone or rack-mount installation, which is suitable for different working environment.



## Feature

- 8-bit digitally encoded and non-compression video transmission
- Directly compatible with NTSC, PAL, and SECAM CCTV camera systems and support RS-232, RS-422, and RS-485 data protocols
- Support any high-resolution video signal
- Automatic compatible PAL, NTSC and SECAM video system
- Power supply and other parameter state indication, which can monitor the operation condition of system
- Support no-damage regenerative trunk of video
- Constant input optical power, and large dynamic range, no Electrical or Optical Adjustments Required.
- Special ASIC design environment
- Hot-swap function
- Stand-alone type or card-type installed in 19" 4U rack-mount chassis.
- Industry-grade of operating temperature from -10°C to 75°C, which is applied to the different Working

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### WAVEFORM TECHNOLOGY CO., LTD.

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## Application

- Intelligent Traffic Monitoring System (ITS)
- Security Systems
- Campus Network
- Industrial monitoring and control (power, chemicals, iron and steel, petroleum, railway, water conservancy, etc.)
- the military monitoring (warehouse, guards, security, etc.)
- TV programs transmission system

## Technical specification

### Video

Video Interface Number	4 Video
Signal Bandwidth	8MHz
Video input / output impedance	75 $\Omega$ ( Unbalanced ) , BNC
Video input / output Voltage	1Vpp
Differential Gain DG	< 1% ( Typical )
Differential Phase DP	< 0.6 ° ( Typical )
Field inclined than	< 5%
Video signal to noise ratio	S/N $\geq$ 67dB ( Weighted )

### Data

Physical Interface	Industry-standard terminals
Data Type	RS485/RS422/RS232/Manchester
Support Rate	0-400Kbps
BER	< 10 <sup>-9</sup>

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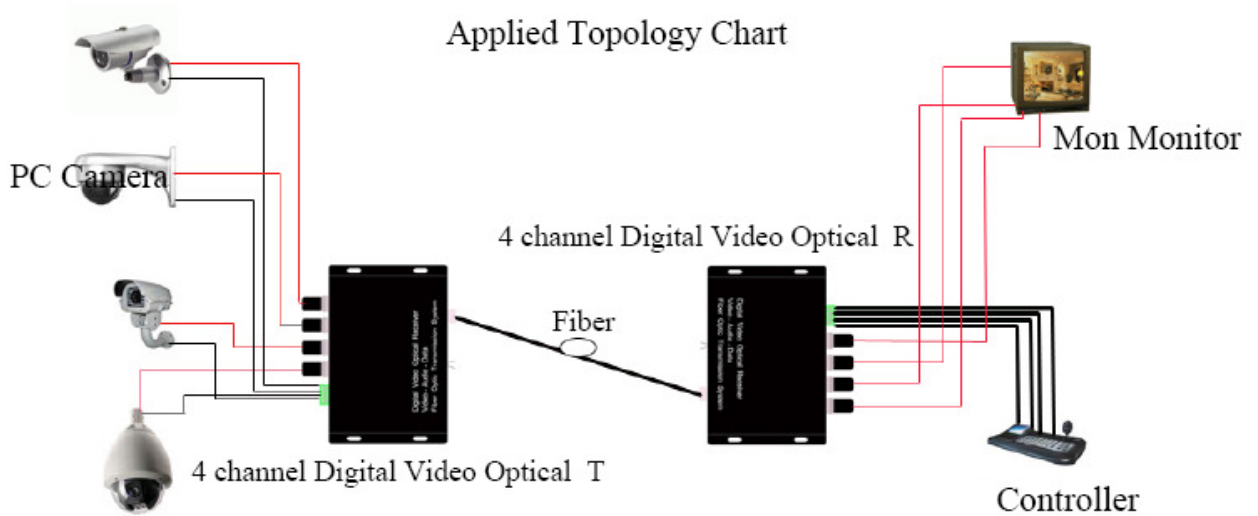
**Optical indicators**

Optical Interface	FC/ST Optional
Transmission distance	MM 2KM ; SM 20~80KM
Wavelength	MM850/1310 nm; SM1310/1550 nm

**General indicators**

Trouble-free working hours	≥100,000 hours
Working temperature	-40 °C - +85°C
Humidity	0-95% Non-condensing
Voltage	AC-DC 220, +5, +9, 24V optional
Regulatory approval	CE
Dimension(mm)	173x173x30 ( LxW xH )

Applied Topology Chart



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## Ordering Information

WSU-□V-□D-□A-□

Tx→Transmitter ; Rx→Receiver

1→One-way Audio ; 2→Two-way Audio ;  
No Write → Without Data

1~ Channel Data ; No Write→ Without Data

1~ Channel Video

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