



## 4-Channel Fiber Optic Video Digital Converter

Our Standard video transmitter/Audio/data transceiver and video receiver/Audio/data transceiver series utilizes uncompressed digital encoding and decoding for high-quality video transmission. These environmentally hardened units provide transmission of 4 independent video channel, 1 audio channel and 1 bi-directional data channel over one single-mode or multimode optical fiber and are ideal for use in unconditioned roadside or out-of-plant installations. The product is widely used in the field of CCTV, video surveillance, national defense, ITS and etc.

### Feature

- Supports point-to-point connection
- Unpressed and undistorted digital broadcasting transmission
- Free from intermodulation interference from optical transceivers for simulated frequency, phase, and amplitude modulations
- Supports any high-resolution video signals
- Supports video nondestructive regenerated relay
- Auto compatible with PAL, NTSC, SECAM video systems
- Supports video, data, Ethernet, telephone voice parallel transmission
- KM optical transmission technology, large in capacity and easy for upgrade
- Transmission in monomode and multimode fiber, at a distance of 0 - 100KM
- Special ASIC design and high-speed DSP technology
- Advanced auto-negotiation technology, no need for adjustment during use
- Full SMT technology
- Industry standard design, with high reliability
- Wall hanging type, 1U rack type, 4U card type



### Video Interface

Video I/O Impedance:	BNC 75Ω non-balanced interface
Video I/O Voltage:	Typical Peak -1Vpp.
Video Bandwidth:	8MHZ
Video Digital Bid Width:	8/10 bits
Differential Gain:	<1%
Differentia Phase:	<1°
Field Tilt:	<0.5%
SNR:	>65dB
Connectors:	BNC

### Data Interface

Physical Interface:	RJ45 connector jack
RS-232 Rate:	DC-115.2Kbps
RS-422/485 Rate:	DC-1.2Mbps
RS-422/485 Distance:	0 - 1200M
RS-422/485 Protocol:	Transparently supports random RS-485/422 protocol
I/O Switching Value, Warning Data, and supports controlled relay output	

### Optical Interface

Physical Interface:	FC/PC, ST/PC, and SC/PC
Type of Fiber:	Monomode/Multimode Fiber, Single /Double Fiber
Transmission Distance:	Multimode: 0-3km; singlemode: 0-25km, 0-60km, and 0-100km



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## Ethernet Interface

Physical Interface: Shielded Super-type 5 RJ-45 Connector Jack  
 Protocols Supported: IEEE 802.3 10M, 100M, and 10/100M auto-negotiation Ethernet  
 Operating Mode: Full/Half Duplexing

## Telephone Interface

Physical Interface: RJ-11 Connector Jack  
 Voice Bandwidth: 8KHZ  
 Operating Mode: Point-to-point hotline, program controlled switch/extension mode

## Audio Interface

Audio I/O Impedance: 600Ω or other various impedances  
 Audio I/O Electric Level: Typical 0dBm  
 Frequency Response: 10HZ-20KHZ  
 Audio Digital Bit Width: 24 bit  
 SNR: >75dB

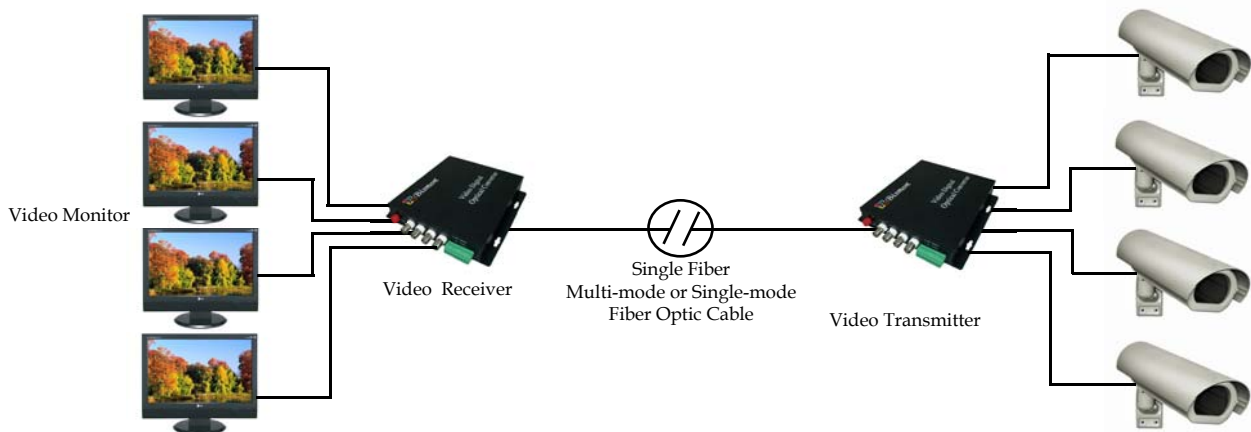
## Application

- High Quality Video Conference
- CCTV with remote control for PTZ
- Interference resistant where data path through
- Public Security Surveillance
- Long distance video and data transmission
- Industrial process monitoring
- Traffic transportation monitoring

## Environment

Operating Temperature -45?~85?  
 Humidity 0~95% non-condensing  
 Power Supply Voltage AC220V/50Hz

## Application Diagram



## Order Information

- |              |  |
|--------------|--|
| B1-S4V-TF    | 4 Channel Video Transmitter                      |
| B1-S4V-RF    | 4 Channel Video Receiver                         |
| B1-S4V1D3-TF | 4 Channel Video Forward Reverse Data Transmitter |
| B1-S4V1D3-RF | 4 Channel Video Forward Reverse Data Receiver    |