

Fiber Optical Video Converter

OPTINET fiber optical video transmitter and receiver can simultaneously transmit 1-32 channels of 8-bit digitally encoded broadcast quality video / reverse or bidirectional data / unidirectional or bidirectional audio / Ethernet / Telephone / Dry contact over one single mode or multi mode optical fiber. These multiplexers are typically used in applications where the cameras have PTZ 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.

Features

- * 8-bit digitally encoded and non-compression broadcast quality 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;
- * Hot-swap function;
- * Stand-alone type or card-type installed in 19" 2U or 4U rack-mount chassis;

Application

- * Intelligent Transportation System
- * Connection of Sub-network for Surveillance Center
- * Public Security Surveillance
- * High Way & Toll Station Surveillance
- * Industrial Closed Circuit Television Surveillance

Technical Specifications

4 Channels Video Series

Video Port	4
Video Interface	BNC
Video bandwidth	8 MHz
Automatic compatible video system	PAL, NTSC, SECAM
Video in/output impedance	75 Ω (unbalance)
Video in/output Voltage	1.0Vp-p, max 1.5Vp-p
Video signal-to-noise ratio	≥ 65 dB
Differential gain	$< 1\%$
Differential phase	$< 0.7^\circ$
Fiber-optic Specification	Connector: FC/ST/SC Transmitter: Tx Power: -8 ~ -3dBm Sensitivity: ≤ -35dBm Receiver: Tx Power: -15 ~ -8dBm Sensitivity: ≤ -24dBm Transmission Distance: 2km(mm), 20/40/60/80/100km(sm) Operating Wavelength: Tx1310/Rx1550(Transmitter), Tx1550/Rx1310nm(Receiver)



Operating Voltage: DC5V, AC100-240V

Operating Temperature (°C): 0~50

Storing Temperature(°C) : -40~85

Humidity: 0 to 95% non-condensing

MTBF: $\geq 10^5$ hours

Warranty: 3 years



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Specification of Customized Options

Data	Connector: Terminal Blocks Encoded type : RS485 / RS422 / RS232 / Manchester Data rate : DC ~ 300Kbps BER: $\leq 10^{-9}$
Audio	Connector: Terminal Blocks Audio input / output impedance :600Ω(Balance/ unbalance) Audio input / output voltage :2Vp-p (typical value) Audio input / output level :0dBm (typical value) Video bandwidth:20HZ~20KHZ Audio digital encoded bandwidth :24bit Audio signal-to-noise ratio: S/N $\geq$ 85dB
Telephone	Connector: RJ11 Bandwidth :8KHZ Features: Support call-showing function ;support H-F Operating mode : Point to point hot-line mode / FXS-FXO
Ethernet	Connector: RJ45 Support mode : Half duplex or Full duplex Standards: IEEE802.3 Data rate: 10M / 100Mbps Bandwidth: 25M
Contact Closure	Physical connector: Industrial standard connector port Alarm output: Support any type of active or passive alarm output Data Interface: Support TTL, RS232/485/422 or relay output