



Fibre Optic Active

# Optical Video Converters – 16 Video Channels

Fibre Optic Video Transceivers can simultaneously transmit 1-16 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 fibre.

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.

## Features & Benefits

- 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
- Dual Power Input (one DC Jack, one terminal.)
- Video AGC support.
- 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.
- Industry-grade of operating temperature from -10°C to 75°C , which is applied to the different working environment
- Hot-swap function
- Stand-alone type or card-type installed in 19" 2U or 4U rack-mount chassis
- Suitable for
  - Intelligent Transportation System
  - Connection of Sub-network for Surveillance Centre
  - Public Security Surveillance
  - High Way & Toll Station Surveillance
  - Industrial Closed Circuit Television Surveillance





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### Technical Specifications

Function	Description
Video Channels	16 Channel
Dimensions (cm)	48.3(L) x 22(W) x 4.4(H)
Operating Voltage	DC 5V (We will offer external power supply from AC96-240V to DC 5V for each unit)
Operating Temperature	-10°C to +75 °C
Storing Temperature	-55 °C to +85°C
Humidity	0 to 95% non-condensing
MTBF	≥ 10 <sup>5</sup> Hours
Video Bandwidth	5-7.5 MHz
Automatic Compatible Video System	PAL, NTSC, SECAM
Video Input / Output Impedance	75 Ω
Video Signal-To-Noise Ratio	≥67dB
Differential Gain	(10%-90%APL) DG <1% ( typical value)
Differential Phase	(10%-90%APL) DP <0.7° ( typical value)
Video Connector	BNC
Warranty	3 years

### Fibre Optic Specifications

Function	Description
Fibre Optic Specification	F/O connector: LC (SFP) Transmitter : Tx Power: -8 ~ -3dBm Sensitivity :≤-22dBm Receiver : Tx Power:-8 ~ -3dBm Sensitivity :≤-22dBm Transmission Distance : 20KM (single mode) Operating Wavelength: TX1310/RX1550nm (Transmitter) TX1550/RX1310nm (Receiver)



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### Specifications of Custom-made Options

Function	Description
Data	Connector: Terminal Blocks Encoded type : RS485 / RS422 / RS232 / Manchester Data rate : 0 - 400Kbps 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:10HZ~12KHZ Audio digital encoded bandwidth :24bit Audio signal-to-noise ratio: S/N $\geq$ 95dB (weighted)
Telephone	Connector: RJ11 Bandwidth :8KHZ Features : Support call-showing function ;support H-F Operating mode : Point to point hotline mode / FXS-FXO
Ethernet	Connector: RJ45 Support mode : Half duplex or Full duplex Standards : IEEE802.3 Data rate : 10M / 100Mbps Bandwidth: 25M
Dry Contact	Input voltage :-7~12V Input current:0.04MA Output current:<1A ; Output voltage:<500V

### Ordering Information

Using the available configurations amend/create a part number using the formula below.

Optical Video Converter		Video Channels		Transmit/Receive	
Optical Video Converter	OVC	16	16V	Transmit/Receive	T/R
OVC	S	16V	1D	T/R	FC
Converter Style		Data Channels		Connector Type	
Standard	S	1	1D	FC	FC
Mini	M			ST	ST
				SC	SC
				LC	LC

**OVCS16V1DT/RFC** - 16 Video Channel > 1 Data Channel Standard Optical Video Converter with FC Port