

SC-16HACT-D

16 Channel AHD/HD-CVI/HD-TVI/CVBS 4-in-1 Video Fiber Converter



Model: SC-16HACT-D

AHD/HD-CVI/HD-TVI/CVBS 4-in-1 Video Fiber Converter adopt the advanced uncompressed HD composite video and high velocity digital optical transmission technologies which convert the AHD, HDCVI, HD-TVI or CVBS composite signals to optical signals to achieve long distance (as far as 120Km) transmission through fibers. 16Ch AHD/CVI/TVI/CVBS Fiber optic transceiver can simultaneously transmit 16 channels AHD, HD-CVI, HD-TVI or CVBS Video over one multimode or single-mode optical fiber. 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. It supports input video format as 25/30/50/60fps@720P & 25/30fps@1080P.

Features

- Non-compression coding technology
- Automatically identify formats of input videos
- Through LED indicators to inform its functional mode
- Industrial wide range of operational temperature
- Wide-range temperature application: -15°C ~65°C
- Support 720p/50, 720p/60, 1080p/25, 1080p/30 videos etc.
- Support transmission of combined AHD, HDCVI, HD-TVI or CVBS signal and controlling PTZ data RS485 simultaneously through fiber optical cable
- Plug and play, simple installation

Application

- City traffic monitoring system
- Public security, safe city monitoring system
- Highway security protection, charging system
- Building, campus monitoring net
- Gymnasium (live video, audio transmission)
- Military monitoring (storehouse, frontier defense, guard, nation defense, etc.)
- Industrial monitoring (airport, chemical industrial, steel, oil, railway, water conservancy, mine, etc.)
- Electric power, oilfield, television program transmission system

Technical Indexes

Optical Fiber

Wavelength	WDM:1310nm/1550nm
Output Power	-8~3dBm
Optic fiber	50 / 125u multimode, 62.5 / 125u multimode, 9/125u single mode
Rx sensitivity	-26dBm
Optical connector	FC (default), ST or SC (optional)
Transmission Distance	0~550M (MM) / 0~80KM (SM) (Default distance is 20Km)

Video

Number of Channels	16
Input/output impedance	75 Ohm (unbalance)
Standard video input/output voltage	1.0Vp-p
Video Bandwidth	50MHz
Sampling Bandwidth	8bit
Sampling Frequency	108MHz
Signal to noise ratio	>67dB
Rise and Fall time	<0.8ns
Optical Signal Intrinsic Jitter	<0.2 UI
Differential Gain	< ±1.5%
Differential Phase	< ±1°
Connector	BNC
Supporting video pixel/Resolution	1280(H)x720(V)@30Hz/1MPX ; 1280(H)x720(V)@50Hz/1MPX 1280(H)x960(V)@30Hz/1.3MPX ; 1920(H)x1080(V)@30Hz/2MPX

PTZ Data

Protocol	Default: RS485 (RS232/RS422 Optional)
Number of channels	1
Connector	3pins Terminal Blocks
Data Rate	0-200Kbps
Directions	Default: Simplex from Rx to Tx (BIDI duplex optional)

Environmental

Operating Temperature	-15°C to 65°C (5°F to 149°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Relative Humidity	5% to 95% non-condensing
MTBF	> 100,000 hrs

Electrical and Mechanical

Input Power	AC220V (100~260V), 50~60Hz/DC+5V
Power Consumption	≤10W

LED Indicators

Fiber	Fiber Status
Video	LED1, LED2, LED3, LED4
Data	Data status
PWR	Power Status
Dimensions (WxDxH)	19" 1U chassis; 482 x 220 x 44 mm (720P); 482 x 220 x 44 mm (1080P)
Weight	7Kg (720P); 7KG (1080P)
Casing	Metal Case
Mounting Options	Wall-mount/Rack-mount