Model : ON-FB16V-5MP-20

16CH 5MP HD-AHD/HD-CVI/HD-TVI/CVBS 4-in-1 Video Fiber Converter

Model : ON-FB16V-5MP-20R

16CH 5MP HD-AHD/HD-CVI/HD-TVI/CVBS 4-in-1 Video Fiber Converter + 1CH RS485

Overview

HD-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 5MP 4MP 3MP 1080P 720P Camera.
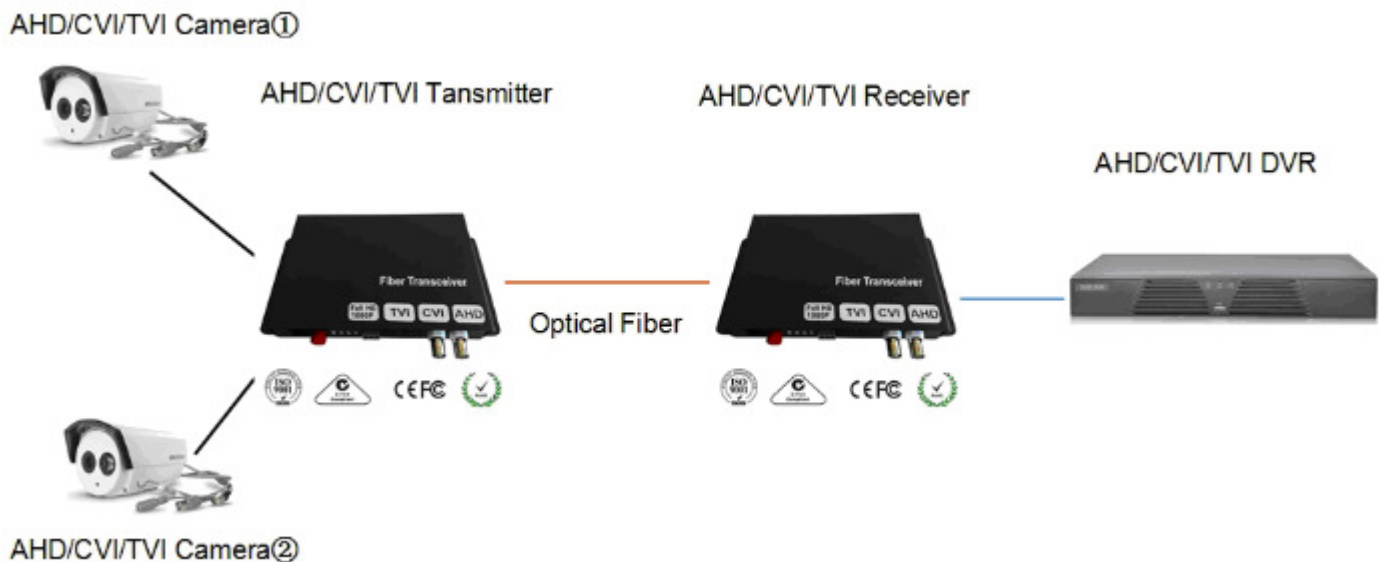
Features

- Non-compression coding technology
- Automatically identify formats of input videos.
- Support transmission of combined AHD, HDCVI, HD-TVI or CVBS signal and controlling PTZ data RS485 simultaneously though fiber optical cable
- Support 5MP 4MP 3MP 1080P 720P Camera

- Through LED indicators to inform its functional mode
- Industrial wide range of operational temperature
- Plug and play, simple installation.
- Wide-range temperature application: -15ºC ~65ºC

Application

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

System Connection Diagram

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	5MP 4MP 3MP 1080P 720P Camera
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
Weight:	7KG
Casing:	Metal Case
Mounting Options:	Wall-mount/Rack-mount
Regulatory Approvals	
ISO9001	
CE, RoHS and FCC	

Ordering Information

ON-FB16V-5MP-20	16-Ch HD-AHD/CVI/TVI/CVBS video (5MP 4MP 3MP 1080P 720P Camera), 20km, single mode single fiber, FC, including 1 transmitter & 1 receiver, used by pairs
ON-FB16V-5MP-20R	16-Ch HD-AHD/CVI/TVI/CVBS video (5MP 4MP 3MP 1080P 720P Camera) + 1-Ch Backward Data RS485 (for PTZ Cameras), 20km, single mode single fiber, FC, including 1 transmitter & 1 receiver, used by pairs