



## Model : **ON-FB8V-5MP-20**

8CH 5MP HD-AHD/HD-CVI/HD-TVI/CVBS 4-in-1 Video Fiber Converter

## Model : **ON-FB8V-5MP-20R**

8CH 5MP HD-AHD/HD-CVI/HD-TVI/CVBS 4-in-1 Video Fiber Converter +  
**1CH RS485**



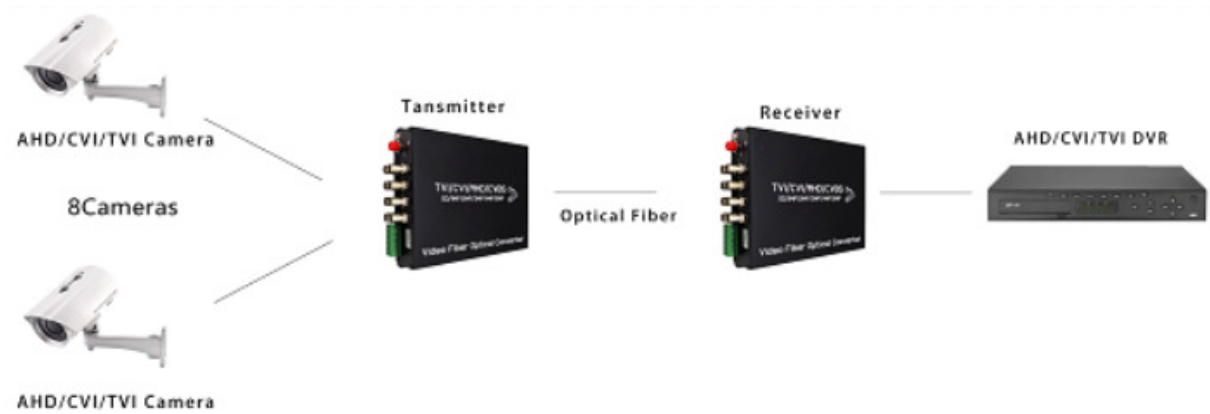
### Overview

HD-AHD/HD-CVI/HD-TVI/CVBS 4-in-1 Video Fiber Converter adopts the advanced uncompressed HD composite video and high speed digital optical transmission technologies which converts the AHD, HD-CVI, HD-TVI or CVBS composite signals to optical signals in order to achieve long distance(as far as 120Km) transmission through fibers. 4Ch AHD/CVI/TVI/CVBS Fiber optic transceiver can simultaneously transmit 4 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 through 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: -15°C ~65°C

## 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	8
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	< $\pm 1.5\%$
Differential Phase	< $\pm 1^\circ$
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

<b>Electrical and Mechanical</b>	
Input Power:	DC5V 2A
Power Consumption:	≤6W
<b>LED Indicators:</b>	
Fiber	Fiber Status
Video	LED1, LED2, LED3, LED4
Data	Data status
PWR	Power Status
Dimensions(WxDxH):	167 x 172 x 45 mm
Weight:	2.5Kg
Casing:	Metal Case
Mounting Options:	Wall-mount/Rack-mount
<b>Regulatory Approvals</b>	
ISO9001	
CE, RoHS and FCC	

Ordering Information

Model	Details
ON-FB8V-5MP-20	8-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-FB8V-5MP-20R	8-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