

# Video over Fiber Media Converter Kit



To help the analog cameras deployment in long distances with high video transmission quality and reliable signal, PLANET develops the Video over Fiber media converter which successfully integrates the **video** signal and **fiber optic** transmission in a compact size mini box. The Video over Fiber media converter enables the videos to be delivered in high quality up to 20km long distance by the intelligent encoding / decoding technology. It is ideal for extending the distance and signal conversion by transmitting the Video and data over the fiber-optic cable.

## Fiber Optic Communication for VIDEO and SERIAL DATA

This Video over Fiber Converter kit consists of a Video Transmitter and a Video Receiver:

- VF-102-T: 1-channel Video over Fiber Transmitter
- VF-102-R: 1-channel Video over Fiber Receiver

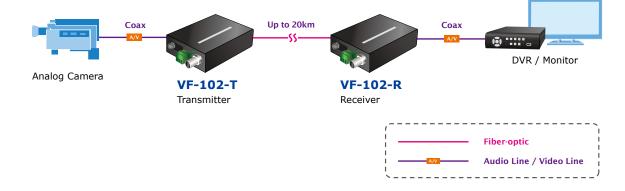
It is a digital **fiber-optic transmission system** which brings customer a cost-effective solution for transmission of 1 channel uncompressed digital video and 1 reverse **RS-422/485** async-data over one single fiber cable. It is an adjustment free device while providing high quality and real-time video transmission.

# **KEY FEATURES**

- Video and Data over fiber transmission
- 8 bit Video Signal digital sampling
- PAL, NTSC, SECAM compatible
- 20km max. transmission distance over single fiber
- Data Type: RS-422 / RS-485
- Standalone or work with PLANET MC-700/1500/1500R media converter chassis
- Compact in size, wall-mount design, Plug and Play installation

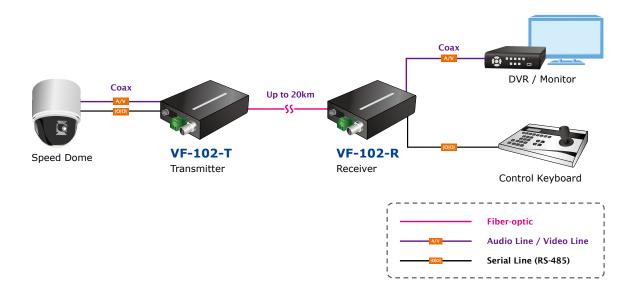
## APPLICATIONS

The VF-102-KIT consists of 1 channel video over fiber optical transceiver and receiver to transmit **video** and **RS-422/485** signal through a reliable single mode / single fiber link. It is an ideal cost-effective solution for surveillance system that requires high display quality and high performance signal transmission over long distances. The VF-102-KIT can be installed easily and **plug and play**; that means the operator does not need to configure the pair of the video over fiber transmission.



**Data Sheet** 

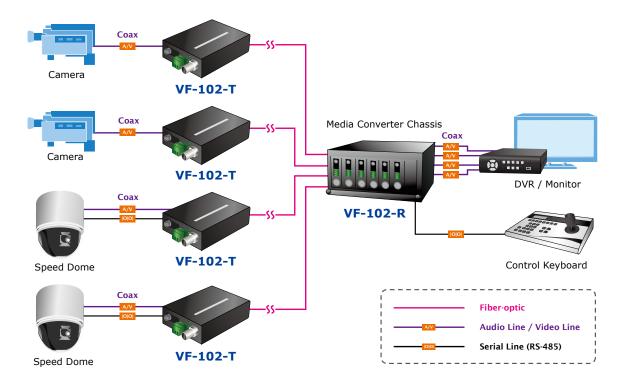




The transmitter and receiver can work **stand-alone** or slotted into a **rack-mountable media converter chassis**. The flexible and maintenance-free design fits with different installation environments. Up to 20km distance of video camera deployment with one VF-102-KIT ideally suites the following applications:

- Intelligent Transportation Systems (ITS)
- Toll Collection
- Traffic Surveillance
- Air Traffic Management (ATM)
- Rail Signaling

- Perimeter Alarms and Area Monitors
- Telemedicine and Teleconference
- Industrial Surveillance
- Intelligent Building







## SPECIFICATION

Product	Video over Fiber	Media Converter Kit		
Model	VF-102-T	Wicara Converter Kit	VF-102-R	
Video Characteristic	VI-102-1		VI - 102-10	
Video Channel	1 channel Bi-direction			
Signal Mode	NTSC / PAL			
Video Connector	BNC			
	75ohm / unbalanced interface			
Video Input/Output Impedance				
Video Input/Output Voltage	1.0 Vpp / Typical peak-peak value			
Video Bandwidth	6.5MHz			
Video Digital Bit Width	8/10 bit			
Differential Gain(DG)	<1.3% (Typical Value)			
Differential Phase(DP)	<1.3° (Typical Value)			
SNR Weighted	63dB (Typical Value)			
Data Interface				
Data Channel	1 channel			
Physical Protocol	RS-422 / RS-485			
Operation Mode	Simplex			
Data Connector	3 Pin terminal block with screw clamps			
Data Rate	DC-115.2Kbps			
Data Distance	RS-485: 0-1200m			
Bit Error Rate (BER)	< 10ns			
Optical Interface				
Optical Connector	FC			
Fiber Type	Single mode, single fiber			
Distance	20km for single mode			
Ontical Wayslangth	TX: 1310nm		TX: 1550nm	
Optical Wavelength	RX: 1550nm		RX: 1310nm	
1 d- D (-  D )	Max. : -7			
Launch Power (dBm)	Bm) Min14			
Receive Sensitivity (dBm)	-32dBm			
Max Loss Budget	18dB			
Max. Input Power (dBm)	0			
Cable	9/125µm single-mode cable			
Hardware Specification				
	One Power			
	One for Video			
LED Indicators	- Green, Link			
	One for Fiber Optic			
	- Green, Link			
Dimension (W x D x H)	94 x 70 x 26 mm			
Weight	215g			
Power Requirement	5V / 2A			
Power Consumption	4.8Watts (maximum)			
Mechanical	Metal			
Compatible Converter Chassis	MC-700 / MC-1500 /	′ MC-1500R		
Standards Conformance				
Regulation Compliance	FCC Part 15 Class A, CE			
Environment	rectart is class A, CE			
Operating	Temperature:	-10 ~ 60 Degree C		
	Relative Humidity:	0 ~ 95% (non-condensing)		
	Temperature:	-40 ~ 85 Degree C		
Storage	Relative Humidity:	5 ~ 95% (non-condensing)		
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## ORDERING INFORMATION

VF-102-KIT Video over Fiber Media Converter Kit

## RELATED PRODUCTS

Analog Camera	
CAN-BX53	Hi-Resolution CCD Box Camera
CAM-IR338	30-meter Infrared Camera
CAM-ISD48	23x Indoor Speed Dome Camera
CAM-IVP52V	25-meter Infrared Vari-Focal Vandal-Proof Camera

Media Converter Chassis		
MC-700	7-Slot Media Converter Chassis	
MC-1500	15-Slot Media Converter Chassis	
MC-1500R	15-Slot Media Converter Chassis with Redundant Power	