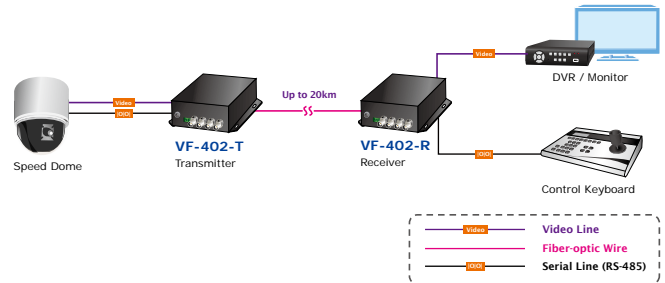


# 4-Channel Video over Fiber Bundle Kit



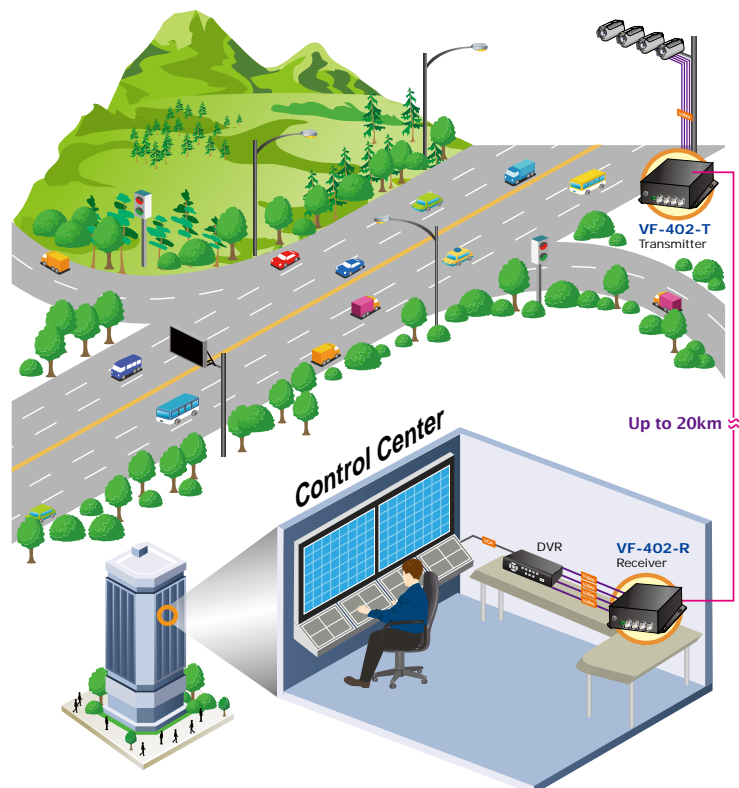
### Reliable Long Distance Solution for Analog Surveillance System

To help current analog camera deployment in long distances efficiently and provide high video quality and reliable signal, PLANET develops the Video over Fiber media converter kit, VF-402-KIT, which is ideal for extending the distance and signal conversion by transmitting the Video and data over the fiber-optic cable. Applies the intelligent encoding / decoding technology in the compact size mini box, the CCTV over Fiber media converter VF-402-KIT enables the videos to be delivered in high quality up to 20km long distance.



### Industrial Level Monitoring Systems

The VF-402-KIT can be applied to Industrial level operation under wide temperature range -25 to 75 Degree C. It performs zero distortion of high quality video transmission and clear graphics in long distance by adopting advanced international uncompressed full digital error correction and gigabit fiber optical transmission technology. This series of optical transceiver supports hot plug and can be deployed independently or in rack-mounted structure. It is simple to operate without requiring field adjustment. Therefore, the VF-402-KIT is very applicable to different working environments.



### Fiber Optic Communication for Video and Serial Data

The VF-402-KIT consists of a Video Transmitter and a Video Receiver:

- VF-402-T: 4-Channel Video over Fiber Transmitter
- VF-402-R: 4-Channel Video over Fiber Receiver

It is a digital **fiber-optic transmission system** to bring users a cost-effective solution for transmission of 4 channels uncompressed digital video and 1 reverse **RS-485** async-data over one single fiber cable. The VF-402-KIT is an adjustment free device while providing high quality and real-time video transmission. It can be widely used in Intelligent Transportation Systems (ITS), Traffic Surveillance, security monitoring, automation control, intelligent residential districts and etc.

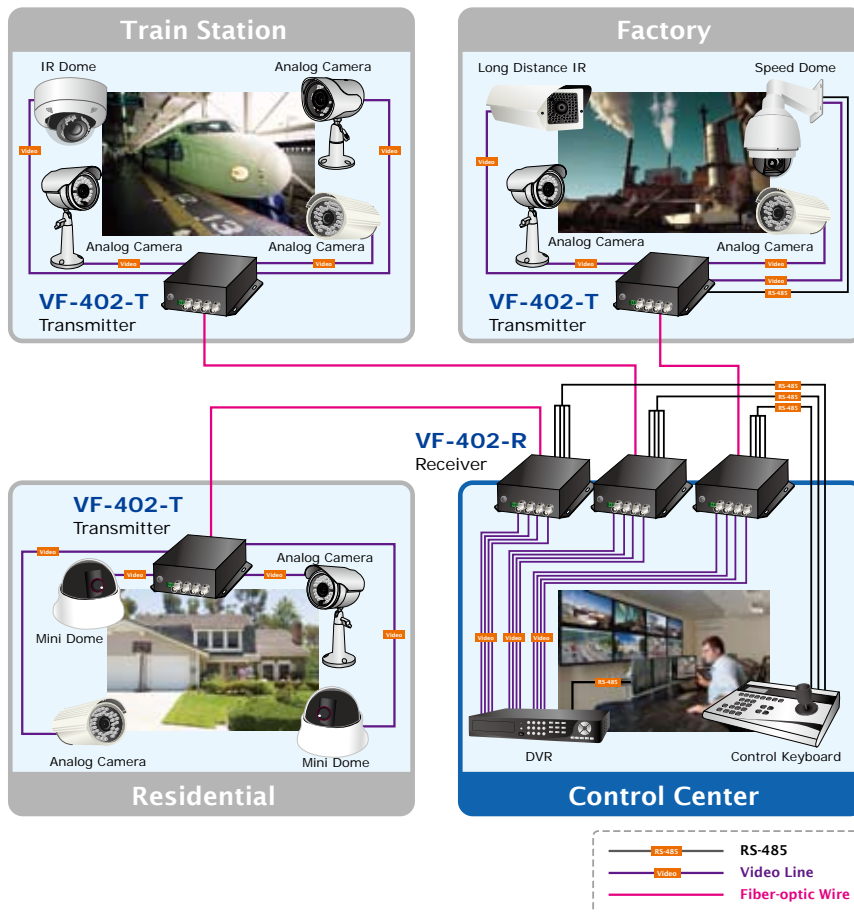


**KEY FEATURES**

- High-Speed synchronous digital transmission up to 20km
- Fiber optic transmission of four video signals on one fiber with RS-485 data signals
- Friendly status indication for power supply, optical signal and video
- No electromagnetic interference, radio frequency interference and ground current
- Guarantees safe transmission under poor electromagnetic environment
- Maximum tolerable link loss for single mode single fiber is 18db
- Video bandwidth of 6.5 MHz, SNR > 63db
- Industrial level of operating under wide temperature range -25 to 75 Degree C

**APPLICATIONS**

The VF-402-KIT consists of 4 channels video over fiber optical transceiver and receiver to transmit **video** and **RS-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-402-KIT features easy **plug and play**; that means the operator does not need to configure the pair of the video over fiber transmission in advance.



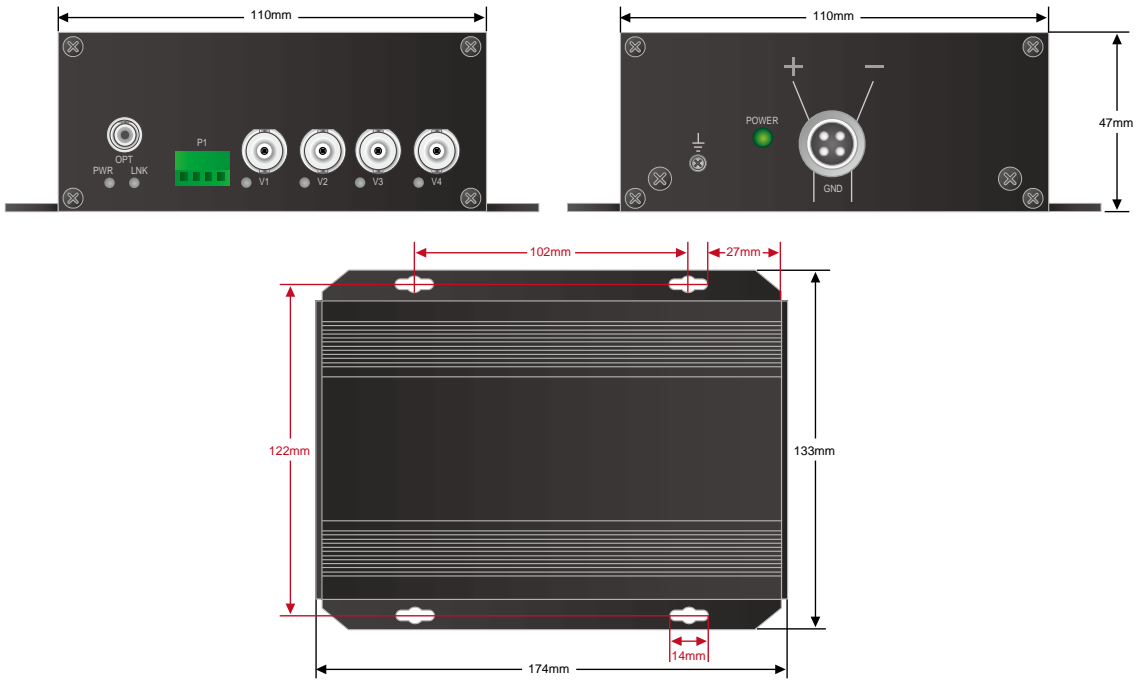
*Typical Applications*

- 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
- CCTV network

**SPECIFICATION**

Product	<b>4-Channel Video over Fiber Bundle Kit (VF-402-T + VF-402-R)</b>	
Model	VF-402-T	VF-402-R
<b>Video Characteristic</b>		
Video Channel	4 channel Bi-direction	
Video Connector	BNC	
Video Input / Output Impedance	75ohm / unbalanced interface	
Video Input / Output Voltage	1.0 Vpp / Typical peak-peak value	
Video Bandwidth	5Hz to 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)	
<b>Data Interface</b>		
Data Channel	4 channel	
Physical Protocol	RS-485	
Operation Mode	Simplex	
Data Connector	4 Pin terminal block with screw clamps	
Data Rate	DC-150 Kbps	
Data Distance	RS-485: 0-20km	
BPS	0-115.2Kbps	
Bit Error Rate (BER)	< 10 <sup>-9</sup>	
<b>Optical Interface</b>		
Optical Connector	FC	
Fiber Type	Single-mode, single fiber	
Distance	20km for single mode	
Optical Wavelength	TX: 1310nm, RX: 1550nm	TX: 1550nm, RX: 1310nm
Transmitter couple power	Max. : 4dbm, Min. : -4dbm	
Receive Sensitivity	-26dbm	
Link budget	From 22db to 30db at 1310nm or 1550nm	
Cable	9/125µm single-mode cable	
<b>Hardware Specification</b>		
LED Indicators	<ul style="list-style-type: none"> <li>• One Power</li> <li>• One for Video <ul style="list-style-type: none"> <li>- Green, Link</li> </ul> </li> <li>• One for Fiber Optic <ul style="list-style-type: none"> <li>- Green, Link</li> </ul> </li> </ul>	
Dimension (W x D x H)	110 x 174 x 47 mm	
Weight	560g	
Power Requirement	DC 5V / 2A, AC 90~264V, 50~60HZ	
Chassis Current Consumption	0.75Amp for 4 channel video and 1 channel data	
Mechanical	Metal	
<b>Standards Conformance</b>		
Regulation Compliance	FCC Part 15 Class A, CE	
<b>Environment</b>		
Operating	Temperature:	-25 ~ 75 Degree C
	Relative Humidity:	0 ~ 95% (non-condensing)
Storage	Temperature:	-40 ~ 85 Degree C
	Relative Humidity:	5 ~ 95% (non-condensing)

**DIMENSION OF INSTALLING**



**ORDERING INFORMATION**

VF-402-KIT	4-Channel Video over Fiber Bundle Kit (VF-402-T + VF-402-R)
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**RELATED PRODUCTS**

IVS-H120	H.264 Internet Video Server
IVS-H125	H.264 Internet Video Server
IVS-H125P	H.264 Internet PoE Video Server
DVR-462	4-channel H.264 Digital Video Recorder
DVR-872	8-channel H.264 Digital Video Recorder
DVR-1672	16-channel H.264 Digital Video Recorder
CAM-DM33	Mini Dome Camera
CAM-IR138	15-meter Infrared Camera
CAM-IR338	30-meter Infrared Camera
CAM-IR554	50 Meter IR Outdoor Camera
CAM-IR560V	50 Meter Infrared Vari-Focal Camera
CAM-IVP55	25-meter Infrared Vandal-Proof Camera
CAM-IVP55V	25-meter Infrared Vari-Focal Vandal-Proof Camera