

**FVT/FVR1000 Series****Description**

Amplitude modulation (AM) is a time proven, highly reliable means of transmitting CCTV video and associated data signals through optical fiber. This technique is only applicable for multimode fiber applications, but provides the advantage of simplicity and reduced cost when compared to other techniques. Units provide a signal-to-noise ratio of >55 dB (@10 dB optical loss) which is suitable for many applications, particularly where camera performance is the limiting factor in a system. FiberPatrol® units meet or exceed RS-250C long haul transmission requirements and feature highly reliable automatic gain control (AGC) circuitry and single or dual fiber options. Products can be mounted in a stand alone enclosure or in the RMC Communications Chassis. Units meet FCC Part 15, Class B requirements for radiated emissions and feature automatically resettable polymer fuses on all power rails. As with all FiberPatrol® communication units, no optical or electrical adjustments are required.

**Features**

- **Lowest cost**
- **Meets or exceeds RS-250C Long Haul Transmission Requirements**
- **Multiple mounting options**
- **Compact video transmitters available, including available built-in isolation for 24 VAC power**
- **Meets FCC Part 15, Class B requirements for radiated emissions**
- **Full range AGC – no optical or electrical adjustments**
- **Multimode fiber transmissions up to 3 miles**
- **Data and contact closure options**
- **Automatically resettable polymer fuses on all power rails**
- **Environmentally hardened**

## FVT/FVR1000 Series FVT/FVR1400 Series

### One-Way Video

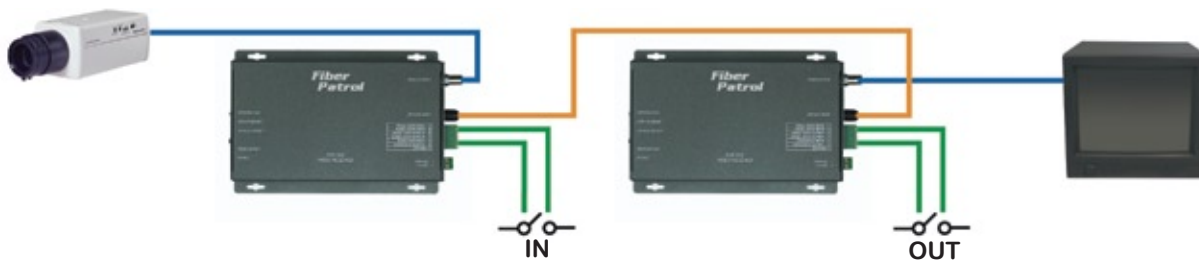


### Ordering Information

#### FVT/FVR1000 Series - Video (only)

Description	Part Number	Fiber	# Fibers	Power Budget (dB)	Maximum Fiber Distance	# RMC Slots
AM Video FVT = Transmitter FVR = Receiver	FVT1011 FVR1011	Multimode	1 (850 nm)	13	2.5 miles (4 km)	1
3 Channel AM Video FVT = Transmitter FVR = Receiver	FVT1313 FVR1313		3 (850 nm)			

### Video with Contact Closure



### Ordering Information

#### FVT/FVR1400 Series - Video with Contact Closure

Description	Part Number	Fiber	# Fibers	Power Budget (dB)	Maximum Fiber Distance	# RMC Slots
AM Video and Contact Closure FVT = Transmitter FVR = Receiver	FVT1411 FVR1411	Multimode	1 (850 nm)	13	2.5 miles (4 km)	1

**FVT/FVR1600 Series  
FVT/FVR1700 Series**

Video with Bi-directional Data



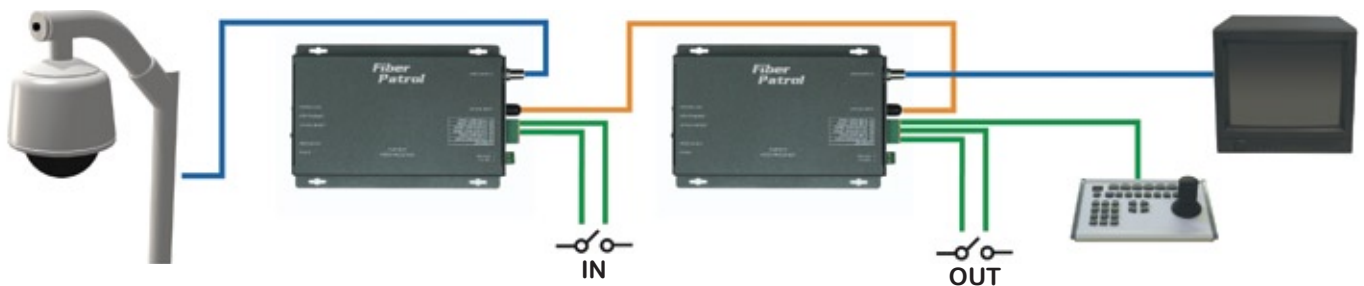
**Ordering Information**

FVT/FVR1600 Series - Video with Bi-directional Data

Description	Part Number	Fiber	# Fibers	Power Budget (dB)	Maximum Fiber Distance	# RMC Slots
AM Video with Bi-Directional Data	FVT1612 FVR1612	Multimode	2 (850 nm)	13	2.5 miles (4 km)	1
FVT = Transmitter FVR = Receiver	FVT1631 FVR1631		1 (850/1300 nm)	11	1.8 miles (3 km)	

Note: Dome camera configurations are available. Consult factory.

Video with Contact Closure and Bi-directional Data



**Ordering Information**

FVT/FVR1700 Series - Video with Contact Closure and Bi-directional Data

Description	Part Number	Fiber	# Fibers	Power Budget (dB)	Maximum Fiber Distance	# RMC Slots
AM Video Contact Closure and Bi-Directional Data	FVT1712 FVR1712	Multimode	2 (850 nm)	13	2.5 miles (4 km)	1
FVT = Transmitter FVR = Receiver	FVT1731 FVR1731		1 (850/1300 nm)	11	1.8 miles (3 km)	

**Video**

Input:	1 volt pk-pk (75 ohms)
Bandwidth:	5 Hz-10 MHz
Differential Gain:	<5%
Differential Phase:	<5 deg
Tilt:	<1%
Signal-to-Noise:	>55 dB @ 10 dB optical loss

**Data**

Interface:	RS-232, RS-422
Data Encoding:	NRZ, NRZI, Manchester, Bi-phase
Data Rate:	DC-56 kbps (NRZ)
Bit Error Rate:	<1 x10 <sup>-9</sup>

**Contact Closure**

Response Time:	.5 msec
Input:	TTL, Dry contact closure
Output:	SPST relay, N.O., 300 mA, 24 VDC max

**Connectors**

Video:	BNC (gold plated center pin)
Data:	Spring-cage terminal block
Contact Closure:	Spring-cage terminal block
Optical:	ST (SC optional)
Power:	Screw terminal block

**Electrical & Mechanical**

Input Voltage:	All except FVT1411
Transmitter:	8-18 VDC or from RMC (<300 mA @ 12 VDC)
FVT1411:	24 VAC (<100 mA @ 24 VAC)
Protection:	Automatic resettable polymer fuses
Circuit Board:	Meets IPC Standard
Size (LxWxH)	
All except FVT1000 and FVT1400 Transmitters	
Stand Alone Module:	7.0 x 4.9 x 1.0 in. (17.8 x 12.4 x 2.5 cm)
RMC Module:	7.7 x 5.0 x 1.0 in. (19.6 x 12.5 x 2.5 cm)
FVT1011 Transmitters:	2.2 x 1.5 x 1.1 in. (5.6 x 3.8 x 2.8 cm)
FVT1411 Transmitters:	2.2 x 1.5 x 1.1 in. (5.6 x 3.8 x 2.8 cm)
Shipping Weight:	<2 lbs. (.9 kg)

**Environmental**

MTBF:	>100,000 hours
Operating Temperature:	-40 C to + 74 C, ambient
Storage Temperature:	-40 C to + 85 C, ambient
Relative Humidity:	0% to 95% (non-condensing)

**Certifications & Compliance**

Radiated Emissions:	FCC Part 15, Class B
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