

Fiber Optic IM Video Kit



FEATURES:

- Surface Mount Technology (SMT) for High Reliability and Repeatability
- Compact Modules Units
- ST™ Optical Connector
- 20MHz Video Bandwidth
- No EMI, RFI, Ground Loops
- No Attraction to Lightning
- True DC Restoration
- Meets EIA RS-170, RS-343A
- Meets RS-250C Transmission Requirements
- Compatible with All NTSC, PAL, or SECAM Systems
- LED Status Indicators Provide Rapid Indication of Critical Operating Parameters
- Wide Optical Dynamic Range: Optical Attenuators are Never Required
- BNC Video Connector

DESCRIPTION:

The Series 100V is a Intensity Modulated (IM) state-of-the-art fiber optic video system that transmits and receives real time video signals over one multimode fiber. PAL, SECAM or NTSC formats, in B&W or color, are seamlessly transmitted distances of up to 2500 ft.(750 meters). This product requires no user adjustments & features superior quality and performance.

CONFIGURATIONS:

The 100 product family is available as stand-alone modules . Transmitter PT-100V and receiver PR-100V operate on 12 VDC. System features full AGC and supports 50 micron fiber. PR-100V-E39 option is available to work with **PT-100u** or **PT-100uB** transmitters.

APPLICATIONS:

Security and Surveillance
Distance Learning

SPECIFICATIONS:

Video

Format	NTSC, PAL, SECAM
Voltage/Impedance	1 Vp-p, 75 Ohm, 1.5 Vp-p max.
Bandwidth	10 Hz to 20 MHz @ -3 dB
Differential Gain	<1.5% typical
Differential Phase	<1.5° typical
SNR	60 dB weighted*
Return Loss	>30 dB
Field Tilt	<0.5% max.

Connectors

Video	75 Ohm BNC (Gold Center Pin)
Optical	ST™
Power	2 Pin Terminal Block

Power

Transmitter Module	70 mA @ 12 VDC
Receiver Module	110 mA @ 12 VDC

Environmental

Operating Temperature	0°C to + 65°C
Storage Temperature	-50°C to + 85°C
Relative Humidity	0 to 95% Non-condensing

Indicator

Module (Bi-Color LED):	
Green	Video Sync Present
Red	Video Sync Absent
Off	Absence of Power

Physical

Dimensions:	
Module**	57 mm (2.25")L, 32 mm (1.25")W 19 mm (.75")H

Weight:	
Module	85 g (3 oz.)

Quality

MTBF	>200,000 hours @ Ground Fix
	35°C per MIL217F

* As per RS-250C, measured @ 1Km (multimode)
** Add 30mm to include mounting flanges



OPTICAL:

Fiber Type/Size (um)	Optical Output (dBm)	Receiver Sensitivity (dBm)	Optical Budget (dB)	Wavelength (nm)	Optical Connector	Optical Dynamic Range (dB)
Multimode (LED)						
50/125	-15	-23	8	850	ST	15
62/125	-12	-23	11	850	ST	15