

**One Channel  
IM Video System**



**FEATURES**

- Surface Mount Technology (SMT) for High Reliability and Repeatability
- Compact Modules and Card Units
- ST™ Optical Connector
- 15MHz Video Bandwidth
- 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
- Automatically Resettable Solid-State Current Limiters on All Power Lines: Provides Equipment Protection
- Wide Optical Dynamic Range: Optical Attenuators are Never Required
- BNC Video Connector

**DESCRIPTION**

The Series 100ME2 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 6Km. This product requires no user adjustments & features superior quality and performance.

**CONFIGURATIONS**

The 100ME2 product is available as stand-alone modules. The modules can be wall or desk mounted.

**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	5 Hz to 15 MHz @ -3 dB
Differential Gain	<2% typical
Differential Phase	<2° typical
SNR	67 dB weighted*
Return Loss	>30 dB
Field Tilt	<0.5% max.

### Connectors

Video	75 Ohm BNC (Gold Center Pin)
Optical	ST™
Power (Receiver)	3 Pin Terminal Block
Power (Transmitter)	2 Pin Terminal Block

### Power\*\*

Transmitter	1.4 W - 120 mA @ +12 VDC
Receiver	2.4 W - 100 mA @ +12 VDC 100 mA @ -12 VDC

### Indicator

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

### Physical

Dimensions:	
Module***	90 mm (3.5")L, 60 mm (2.3")W 25 mm (1")H

Weight:	
Module	170 g (6 oz.)

### Environmental

Operating Temperature	-30°C to +60°C
Storage Temperature	-50°C to +85°C
Relative Humidity	0 to 95% Non-condensing

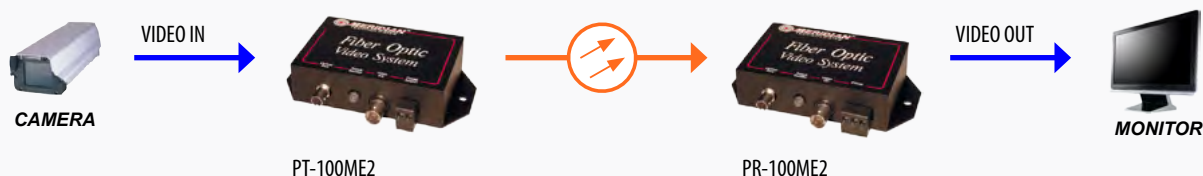
### Quality

MTBF	>230,000 hours @ Ground Fix 35°C per MIL217F
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\* As per RS-250C, measured @ 1Km (multimode)

\*\* Due to variations of drivers and diagnostic options power shown at maximum measurements

\*\*\* 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)	Max Distance (Km)
Multimode* (SLED) 50 / 125	-18	-44	26	850	ST	29	5.4
Multimode* (SLED) 50 / 125	-20	-44	24	1300	ST	29	5.0
Multimode* (SLED) 62.5 / 125	-15	--44	29	850	ST	29	6.0
Multimode* (SLED) 62.5 / 125	-17	-44	27	1300	ST	29	5.6

\* Distance is limited to fiber loss and splices