

**Fiber Optic IM Video  
Micro Transmitter****FEATURES:**

- Compact Size
- Attaches to Camera Housing
- 26dB Budget
- 34 dB Dynamic Range (AGC)
- Surface Mount Technology (SMT) for High Reliability and Repeatability
- ST™ Connector
- 15 MHz Video Bandwidth
- Meets EIA RS-170, RS-343A
- 12 VDC Power Supply
- Compatible with All NTSC, PAL, or SECAM Systems
- Wide Optical Dynamic Range: Optical Attenuators are Never Required
- BNC Video Connector
- Compatible with 100M Series Module)
- Compatible with 130R Series (Rack)

**DESCRIPTION:**

The PT 100u is a State-of-the-Art, LED based, Intensity Modulated, fiber optic video system that transmits a real time B&W or color video signal over multimode fiber up to 5 miles (8 Km). This compact unit is PAL, SECAM, and NTSC compatible and operates at 850nm (1300nm models are also available). The PT 100u can be mounted directly on to the CCTV camera with an optional harness and it is the product of choice for Original Equipment (OEM) Manufacturers and Systems Integrators.

**CONFIGURATIONS:**

PT 100u transmitters are suitable for both pressurized and non-pressurized camera housings and can be combined with either the PR-100M modules or PR-100R card receivers for point-to-point and star applications. Its high Dynamic range supports both 50 and 62.5 micron fibers.

**APPLICATIONS:**

Security and Surveillance  
Access Control  
Robotics Vision and Medical Imaging

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.

Physical

Dimensions:  
PT-100u . . . . . 38 mm (1.5”)L, 13 mm (0.5”)Dia.  
Weight:  
PT-100u. . . . . 28 g (1 oz.)

Connectors

Video/Power . . . . . 4 Pin Block  
Optical . . . . . ST™

Enviromental

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

Optional

Harness cable 18” L. . . . . BNC Male & Power Connector

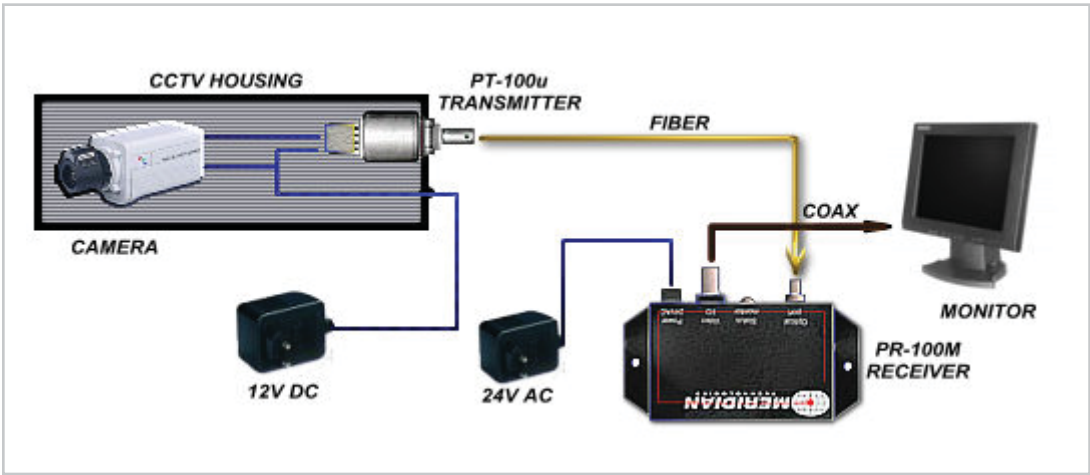
Power

Transmitter Module . . . . . 50 mA @ 12 VDC

Quality

MTBF. . . . . >210,000 hours @ Ground Fix  
. . . . . 35°C per MIL217F

*\* As per RS-250C, measured @ 1Km (multimode), @ 10Km (singlemode)*



OPTICAL:

Fiber Type/Size (um)	Optical Output (dBm)	Reciever Sensitivity (dBm)	Optical Budget (dB)	Wavelength (nm)	Optical Connector	Optical Dynamic Range (dB)
Multimode* (SLED)						
50/125	-21	-44	23	850	ST	34
50/125	-19	-44	25	1300	ST	34
62.5/125	-18	-44	26	850	ST	34
62.5/125	-16	-44	28	1300	ST	34

*\* Distance is limited to fiber loss and splices*