



FM Video Two Channels Mux



FEATURES:

- SpectraSmart[™] Network Management Compatible
- Surface Mount technology (SMT) for High Reliability and Repeatability
- Hot-swappable Rack Cards
- FM / FDM Design
- Transmits Two Real-Time Video Signals
- ST[™], FC Optical Connector
- 7 MHz Video Bandwidth per Individual Channel
- Requires No In-field Electrical or Optical Adjustments
- Meets EIA RS-170, RS-343A
- Meets NEMA TS1/TS2 and Caltrans specifications
- Utilizes Internal Switching Power Supplies
- Meets RS-250C Transmission Requirements
- NTSC, PAL, SECAM Compatible
- Automatic 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 2000i is a reliable, cost effective, state-of-the-art, one fiber single wavelength video transmission system. The 2000i is frequency Modulated/Frequency Division Multiplexed (FM/FDM) for superior performance. This system is designed to eliminate cross talk on adjacent channels. This fiber optic system transmits two channels of real-time video signals over one fiber. The 2000i accepts PAL, SECAM, and NTSC formats. B&W or Color signals are seamlessly transmitted distances of up to 5Km (multimode) and 80 km (singlemode). The 2000i capabilities are enhanced by it's compatibility with Meridian's PC based SpectraSmart™, Network Management and Remote Diagnostic Software System. SpectraSmart[™] supervises the operating parameters of the transmission system such as status on video levels, sync, FM carrier detect, voltage, temperature, optical levels, etc., and external equipment which are attached to the Meridian equipment. See the SpectraSmart[™] brochure for more details.

CONFIGURATIONS:

The 2000i product family is available as rack mount cards that can be installed in all of Meridian's card chassis, desk chaises and 19" racking frames. This system can be configured in either star (module to rack) or trunking (rack to rack) configurations. These products require no user adjustments & features superior quality and performance.

APPLICATIONS:

Security and Surveillance Intelligent Transportation System (ITS) Access Control Systems Campus Lecture Networks

SPECIFICATIONS: -

Video

Format NTSC, PAL, SECAM Voltage/Impedance 1 Vp-p, 75 Ohm, 1.5 Vp-p max. Bandwidth 5 Hz to 7 MHz @ -3 dB

Differential Gain < 2% typical Differential Phase <1.5° typical SNR 60 dB weighted* Return Loss >30 dB

Field Tilt < 0.5% max. Highest Carrier Frequency . . 75 MHz

Connectors

Optical STTM, FC

Power 2 pin Terminal Block

Power **

Reciever Card 3.3 W

Reciever Module 138 mA @ 24 VAC

Transmitter Card. 2.4 W

Transmitter Module. 100 mA @ 24 VAC Adapter for SR-500/S..... Model WP-24

Indicators (LEDs)

Red Power On

Physical

Dimensions:

Module (w/SR-500/S) . . . 182 mm (7.16") L, 132 mm (5.21")W

..... 29 mm (1.15") H

..... 100 mm (4") H

Module (w/SR-500) 900 g (32 oz.) Card 450 g (16 oz.)

Number of Rack Slots . . . One

Enviromental

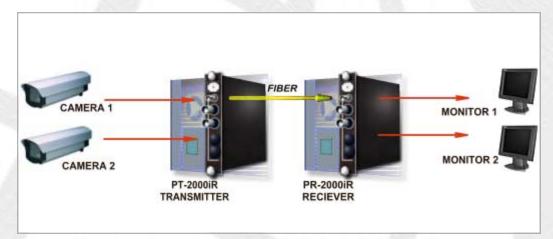
Operating Temperature. . . . -40°C to +74°C Storage Temperature. -55°C to +85°C

Relative Humidity...... 0 to 95% Non-condensing

Quality

MTBF.....>190,000 hours @ Ground Fix 35°C per MIL217F

^{**} Due to variations of drivers and diagnostic options power shown at maximum measurements



OPTICAL:-

Fiber Type/Size (um)	Optical Output (dBm)	Reciever Sensitivity (dBm)	Optical Budget (dB)	Wavelength (nm)	Optical Connector	Optical Dynamic Range (dB)
Multimode* (Laser) 62.5/125 62.5/125	-7 -16	-24 -24	17** 18**	850 1300	ST ST	39 39
Singlemode (Laser) 9/125 9/125	-7*** -10***	-26 -26	19 16	1310 1550	ST, FC ST, FC	41 41

^{*} Distance is limited to fiber loss, splices and fiber bandwidth

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

^{**} For 50/125µm fiber, subtract 3dB

^{***} Higher output lasers available