Four channels of high-quality video transmitted over a single fiber

The Math Fiber Optics™ FX/FR-5750 system, consisting of the FX-5750 transmitter and FR-5750 receiver, utilizes frequency division multiplexing techniques to assure excellent transmission of four separate color or black and white video signals (in any combination) in accordance with NTSC, PAL or SECAM specifications.

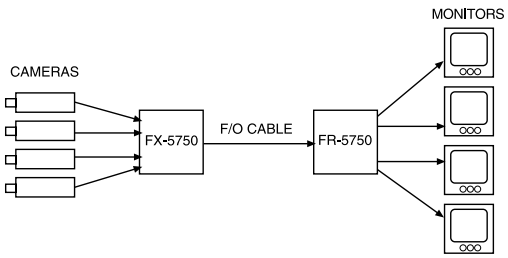
Four indicator LEDs, corresponding to each channel, are provided on both the transmitter and receiver. These LEDs indicate the presence of video signals and show whether the units are operating properly. The system also features built-in power supplies that allow operation from low voltage AC or DC sources.

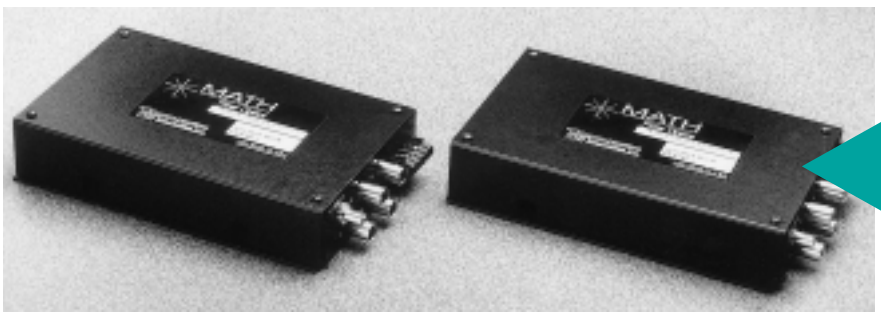
MODELS AVAILABLE:

- Multimode, 1300 nanometers
- Single mode, 1300 nanometers

STANDARD FEATURES INCLUDE:

- Only one fiber required
- Four real-time signals
- Monochrome or color
- Operates with all video formats





FX/FR-5750 (Four Channel Video Multiplexer)

WARRANTY:

All Math Fiber Optics transmission products are backed by a three-year warranty on parts and labor plus a 30-day satisfaction guarantee.

EQUIPMENT INCLUDED:

- Transmitter and Receiver must be purchased separately
- User's manual

SPECIFICATIONS:

System Bandwidth: (Per Channel)	0-8 Mhz (+0, -3 dB)
Input/Output Impedance:	75 ohms
Normal Input/Output Voltage:	1V pp
Differential Phase:	5 degrees typical
Differential Gain:	7.5% typical
Signal-To-Noise Ratio:	55 dB typical
Crosstalk (Channel to Channel):	-48 dB typical

Allowable Transmission Loss:

(-3) 50 micron fiber, 0-5 dB (3.0 Km typical)
(-3) 62.5 micron fiber, 0-5 dB (3.0 Km typical)
(-7) 8/10 micron fiber, 0-10 dB (20 Km typical)

Operating Wavelength:	1300 nm
Optical Connectors:	ST, multimode FCPC, single mode
Power Requirements*: (transmitter or receiver)	12 to 16 VAC/DC, or 18 to 28 VAC/DC @ 600 mA
Physical Size:	4.50 x 1.38 x 7.00 in. (114.3 x 35.1 x 177.8 mm)

Operating Temperature Range: 0 to +50 degrees C

*For operation from 115 VAC, 50/60 Hz, a PS-5750 plug-in adaptor is required for each module. For operation from 230 VAC, 50/60 Hz, a PS-5751 is required.

ORDERING INFORMATION:

Module	Stand-Alone	Card Cage
XMTR/Multimode	FX-5750-3	FX-5750/MCR-3
RCVR/Multimode	FR-5750-3	FR-5750/MCR-3
XMTR/Single Mode	FX-5750-7	FX-5750/MCR-7
RCVR/Single Mode	FR-5750-7	FR-5750/MCR-7

The rackmounted version of this system occupies one slot in the MCR-1000A enclosure.

When using the FX/FR-5750 in the MCR-1000A rack enclosure, remember that the power dissipated by these units may raise local ambient temperature beyond normally expected values. Be sure to allow adequate ventilation, especially when using these units in areas with restricted air flow.

Also be careful to not exceed the current rating of this rack enclosure. A maximum of six FX or FR-5750s may be used, with no other units, in an MCR-1000A rack enclosure.

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